Junos® Space

Junos® Space RESTful API Reference for Security Director

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Requesting Technical Support

Technical product support is available through the Juniper NetworksTechnical Assistance Center (JTAC). If you are a customer with an active J-Care or Partner Support Service support contract, or are covered under warranty, and need post-sales technical support,you can access our tools and resources online or open a case with JTAC.

- JTAC policies-For a complete understanding of our JTAC procedures and policies, review the JTAC User Guide located at http://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf.
- Product warranties-For product warranty information, visit http://www.juniper.net/support/warranty/.
- JTAC hours of operation-The JTAC centers have resources available 24 hours a day,7 days a week, 365 days a year.

Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Find CSC offerings: http://www.juniper.net/customers/support/
- Search for known bugs: http://www2.juniper.net/kb/
- Find product documentation: http://www.juniper.net/techpubs/
- Find solutions and answer questions using our Knowledge Base: http:
- Download the latest versions of software and review release notes:http://www.juniper.net/customers/csc/software/
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PART 1

Security Director Services

CHAPTER 1

Firewall Policy Management RESTful Web Services

The following opertions can be performed using Secuirty Director Firewall Policy Management RESTful Web Services

Publish Firewall Policy

This request is used to schedule a job and publish a firewall policy. After the publish, you must use the device update RESTful Web Services to update the devices.

URI	/api/juniper/sd/policy-management/firewall/provisioning/publish-policy?update=boolean
HTTP method	POST
Content-Type	application/vnd.juniper.sd.fwpolicy-provisioning.publish+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.fwpolicy-provisioning.publish+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.fwpolicy-provisioning.monitorable-task-instances+xml;version=1;q=0.01 application/vnd.juniper.sd.fwpolicy-provisioning.monitorable-task-instances+json;version=1;q=0.01
Access-Control	PublishPolicy

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Sample JSON Input

```
{
  "publish" : {
    "policy-ids" : {
      "policy-id" : [ "Integer" ]
    },
    "delete-oldest-snapshot" : "Boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<publish>
   <policy-ids>
      <policy-id>Integer</policy-id>
   </policy-ids>
   <delete-oldest-snapshot>Boolean</delete-oldest-snapshot>
</publish>
```

Sample JSON Output:

```
{
  "monitorable-task-instances" : {
    "monitorable-task-instance-managed-object" : [ {
      "supports-recurrence" : "Boolean",
      "repeat-cron" : "String",
      "mo-state" : "String",
      "schedule-string" : "String",
      "job-status" : [ "UNDETERMINED", "INCOMPLETE", "FAILURE", "SUCCESS", "CANCELLED",
"DEPRECATED" ],
      "job-parameter-data-string" : "String",
      "gui-name" : "String",
      "job-state" : [ "SCHEDULED", "QUEUED", "STARTING", "INPROGRESS", "DONE", "CANCELLING",
"DISABLED" ],
      "start-time-string-rest" : "String",
      "device-image-name" : "String",
      "end-time" : "Date",
      "task-name" : "String",
      "service-name" : "String",
      "id" : "String",
      "start-time" : "Date",
      "operation" : "String",
      "details" : "String",
      "details-action-type" : "String",
      "name" : "String",
      "scheduled-start-time-string-rest" : "String",
      "retry-of-id" : "Integer",
      "scheduled-start-time" : "Date",
      "script-bundle-selected" : "String",
      "details-action-url" : "String",
      "end-time-string-rest" : "String",
      "job-params-action-url" : "String",
      "percent-complete" : "Double",
      "is-enabled" : "Boolean",
      "retry-group-id" : "Integer",
      "job-params-summary" : "String",
      "complete-time" : "Integer",
      "user" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<monitorable-task-instances>
  <monitorable-task-instance-managed-object>
    <supports-recurrence>Boolean</supports-recurrence>
    <repeat-cron>String</repeat-cron>
    <mo-state>String</mo-state>
    <schedule-string>String</schedule-string>
    <job-status>UNDETERMINED</job-status>
    <job-status>INCOMPLETE</job-status>
    <job-status>FAILURE</job-status>
    <job-status>SUCCESS</job-status>
    <job-status>CANCELLED</job-status>
    <job-status>DEPRECATED</job-status>
    <job-parameter-data-string>String</job-parameter-data-string>
    <gui-name>String</gui-name>
    <job-state>SCHEDULED</job-state>
    <job-state>QUEUED</job-state>
    <job-state>STARTING</job-state>
    <job-state>INPROGRESS</job-state>
    <job-state>DONE</job-state>
    <job-state>CANCELLING</job-state>
    <job-state>DISABLED</job-state>
    <start-time-string-rest>String</start-time-string-rest>
    <device-image-name>String</device-image-name>
    <end-time>Date</end-time>
    <task-name>String</task-name>
    <service-name>String</service-name>
    <id>String</id>
    <start-time>Date</start-time>
    <operation>String</operation>
    <details>String</details>
    <details-action-type>String</details-action-type>
    <name>String</name>
    <scheduled-start-time-string-rest>String</scheduled-start-time-string-rest>
    <retry-of-id>Integer</retry-of-id>
    <scheduled-start-time>Date</scheduled-start-time>
    <script-bundle-selected>String</script-bundle-selected>
    <details-action-url>String</details-action-url>
    <end-time-string-rest>String</end-time-string-rest>
    <job-params-action-url>String</job-params-action-url>
    <percent-complete>Double</percent-complete>
    <is-enabled>Boolean</is-enabled>
    <retry-group-id>Integer</retry-group-id>
    <job-params-summary>String</job-params-summary>
    <complete-time>Integer</complete-time>
    <user>String</user>
    <uri>String</uri>
  </monitorable-task-instance-managed-object>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</monitorable-task-instances>
```


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Assign Devices to the Firewall Policy

This request is used to assign devices to a policy or remove devices from a policy. You are required to send a list of devices to add or remove from a policy.

URI	/api/juniper/sd/policy-management/firewall/policies/{policy-id}/assign-devices
HTTP method	POST
Content-Type	application/vnd.juniper.sd.policy-management.assign-devices+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.policy-management.assign-devices+json;version=2;charset=UTF-8
Accept-Type	None
Access-Control	assignDevices

Sample JSON Input

```
{
  "assign-devices" : {
    "add-list" : {
      "device" : [ {
        "id" : "Integer",
        "name" : "String"
      } ]
    },
    "delete-list" : {
      "device" : [ {
        "id" : "Integer",
        "name" : "String"
      } ]
    }
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<assign-devices>
  <add-list>
    <device>
      <id>Integer</id>
      <name>String</name>
    </device>
  </add-list>
  <delete-list>
    <device>
      <id>Integer</id>
      <name>String</name>
    </device>
```


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```
    </delete-list>
</assign-devices>
```

Get All Firewall Policies

This request is used to get all the firewall policies configured in Security Director.Use Query param filter=(fwPolicy-type eq 'not-empty') to get list of all unified policies alone.

URI	/api/juniper/sd/policy-management/firewall/policies
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.firewall.policies+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.firewall.policies+json;version=2;q=0.02
Access-Control	managePolicies

Sample JSON Output:


```
{
  "policies" : {
    "policy" : [ {
      "last-successfully-deployed-time" : "Date",
      "dirty-rule-count" : "Integer",
      "description" : "String",
      "sequence-number" : "Integer",
      "requesterId" : "String",
      "locked-for-edit" : "Boolean",
      "has-unsubmitted-changes" : "Boolean",
      "policy-position" : [ "DEVICE", "PRE", "POST" ],
      "domain-id" : "Integer",
      "version" : "Integer",
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "id" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "name" : "String",
      "policy-profile" : {
```


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```
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
      "last-modified-by-user-name" : "String",
      "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
      "fwPolicy-type" : [ "TRADITIONAL", "UNIFIED" ],
      "policy-state" : [ "DRAFT", "FINAL" ],
      "policy-order" : "Double",
      "created-time" : "Date",
      "rule-count" : "Integer",
      "device-list" : {
        "devices" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "device-count" : "Integer",
      "edit-version" : "Integer",
      "uri" : "String",
      "link" : "String",
      "has-OOB-changes" : "Boolean"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<policies>
  <policy>
    <last-successfully-deployed-time>Date</last-successfully-deployed-time>
    <dirty-rule-count>Integer</dirty-rule-count>
    <description>String</description>
    <sequence-number>Integer</sequence-number>
    <requesterId>String</requesterId>
    <locked-for-edit>Boolean</locked-for-edit>
    <has-unsubmitted-changes>Boolean</has-unsubmitted-changes>
    <policy-position>DEVICE</policy-position>
    <policy-position>PRE</policy-position>
    <policy-position>POST</policy-position>
    <domain-id>Integer</domain-id>
    <version>Integer</version>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <id>Integer</id>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <name>String</name>
    <policy-profile>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
```


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```
      <domain-name>String</domain-name>
      <uri>String</uri>
    </policy-profile>
    <publish-state>Not Published</publish-state>
    <publish-state>Partially Published</publish-state>
    <publish-state>Published</publish-state>
    <publish-state>Re-Publish Required</publish-state>
    <publish-state>Deleted</publish-state>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <policy-type>GLOBAL</policy-type>
    <policy-type>GROUP</policy-type>
    <policy-type>DEVICE</policy-type>
    <fwPolicy-type>TRADITIONAL</fwPolicy-type>
    <fwPolicy-type>UNIFIED</fwPolicy-type>
    <policy-state>DRAFT</policy-state>
    <policy-state>FINAL</policy-state>
    <policy-order>Double</policy-order>
    <created-time>Date</created-time>
    <rule-count>Integer</rule-count>
    <device-list>
      <devices>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <uri>String</uri>
      </devices>
      <uri>String</uri>
    </device-list>
    <device-count>Integer</device-count>
    <edit-version>Integer</edit-version>
    <uri>String</uri>
    <link>String</link>
    <has-OOB-changes>Boolean</has-OOB-changes>
  </policy>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</policies>
```

Get Firewall Policy By ID

This request is used to get any policy details by its ID.

URI	/api/juniper/sd/policy-management/firewall/policies/{policy-id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.firewall.policy+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.firewall.policy+json;version=2;

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	q=0.02
Access-Control	managePolicies

Sample JSON Output:


```
{
  "policy" : {
    "policy-details" : [ {
      "app-fw-policy" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "atp-source-ip-to-feed" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "atp-destination-ip-to-feed" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "secure-web-proxy" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
      "utm-policy" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "ips-policy" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "rule-profile" : {
        "profile-type" : [ "CUSTOM", "USER_DEFINED", "INHERITED", "NONE" ],
        "user-defined-profile" : {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
```


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```
        },
        "custom-profile" : {
          "web-redirect" : "Boolean",
          "tcp-syn-check" : "Boolean",
          "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
          "per-second-alarm-threshold" : "Long",
          "per-minute-alarm-threshold" : "Long",
          "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
          "user-firewall-domain" : "String",
          "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
          "sd-template" : {
            "id" : "Integer",
            "name" : "String",
            "domain-id" : "Integer",
            "uri" : "String"
          },
          "redirect-url" : "String",
          "web-redirect-to-https" : "Boolean",
          "access-profile-name" : "String",
          "enable-count" : "Boolean",
          "log-at-session-close" : "Boolean",
          "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION",
"WEB_AUTHENTICATION", "USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
          "auth-only-browser" : "Boolean",
          "auth-user-agent" : "String",
          "service-offload" : "Boolean",
          "no-service-offload" : "Boolean",
          "tcp-seq-check" : "Boolean",
          "window-scale-check" : "Boolean",
          "initial-tcp-mss" : "Integer",
          "reverse-tcp-mss" : "Integer",
          "pass-thru-auth-client-name" : "String",
          "web-auth-client-name" : "String",
          "push-to-jims" : "Boolean",
          "log-at-session-init-time" : "Boolean",
          "uri" : "String"
        },
        "uri" : "String"
      },
      "rule-order" : "Integer",
      "ips-enabled" : "Boolean",
      "policy-id" : "Integer",
      "destination-address" : {
        "exclude-list" : "Boolean",
        "addresses" : {
          "address-reference" : [ {
            "address_refs" : [ {
              "members" : [ ],
              "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
              "ipAddress" : "String",
              "hostName" : "String",
              "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
              "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
              "zone" : "String",
              "variableId" : "Integer",
              "hashKey" : "String",
              "addressBookName" : "String",
              "associatedMetadata" : "String",
              "parentAddressGroups" : {
                "serialVersionUID" : "long",
                "DEFAULT_CAPACITY" : "int",
```


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```
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "id" : "String",
        "uuid" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "uri" : "String"
  },
  "version" : "Integer",
  "last-modified-by-user-name" : "String",
  "rule-type" : [ "RULE", "RULEGROUP" ],
  "change-type" : [ "ADD", "DELETE", "MODIFY" ],
  "vpn-tunnel-refs" : {
    "id" : "Integer",
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
    "vpn-name" : "String",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "is-managed" : "Boolean",
    "uri" : "String"
  },
  "disabled" : "Boolean",
  "rulegroup-disabled" : "Boolean",
  "id" : "Integer",
  "hit-count-details" : {
    "id" : "String",
    "level" : [ "Zero", "High", "Medium", "Low" ],
    "status" : [ "NOT_APPLICABLE", "NOT_AVAILABLE", "AVAILABLE" ],
    "total-hit-count" : "Long",
    "hit-count" : "Long",
    "name" : "String",
    "last-reset-time-stamp" : "Long",
    "hit-percent" : "Double",
    "last-hit-time-stamp" : "Long",
    "first-hit-time-stamp" : "Long",
    "uri" : "String"
  },
  "created-time" : "Date",
  "edit-version" : "Integer",
  "rule-group-id" : "Integer",
  "scheduler" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
  },
  "services" : {
    "service-reference" : [ {
```


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```
          "id" : "Integer",
          "domain-id" : "Integer",
          "name" : "String",
          "is-group" : "Boolean",
          "uri" : "String"
        } ],
        "service-details" : [ {
          "service_refs" : [ {
            "protocols" : [ {
              "name" : "String",
              "description" : "String",
              "alg" : "String",
              "srcPort" : "String",
              "dstPort" : "String",
              "disableTimeout" : "boolean",
              "inactivityTimeout" : "Integer",
              "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
              "rpcProgramNumber" : "String",
              "icmpCode" : "int",
              "icmpType" : "int",
              "sunrpcProtocolType" : [ "TCP", "UDP" ],
              "msrpcProtocolType" : [ "TCP", "UDP" ],
              "UUIDPattern" : {
                "UNIX_LINES" : "int",
                "CASE_INSENSITIVE" : "int",
                "COMMENTS" : "int",
                "MULTILINE" : "int",
                "LITERAL" : "int",
                "DOTALL" : "int",
                "UNICODE_CASE" : "int",
                "CANON_EQ" : "int",
                "UNICODE_CHARACTER_CLASS" : "int",
                "serialVersionUID" : "long",
                "pattern" : "String",
                "flags" : "int",
                "compiled" : "boolean",
                "normalizedPattern" : "String",
                "root" : {
                  "next" : { }
                },
                "matchRoot" : {
                  "next" : { }
                },
                "buffer" : "[]",
                "namedGroups" : { },
                "groupNodes" : "[]",
                "temp" : "[]",
                "capturingGroupCount" : "int",
                "localCount" : "int",
                "cursor" : "int",
                "patternLength" : "int",
                "hasSupplementary" : "boolean",
                "MAX_REPS" : "int",
                "GREEDY" : "int",
                "LAZY" : "int",
                "POSSESSIVE" : "int",
                "INDEPENDENT" : "int",
                "lookbehindEnd" : {
                  "next" : { }
                },
                "accept" : {
                  "next" : { }
                },
```


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```
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "numericPattern" : {
    "UNIX_LINES" : "int",
    "CASE_INSENSITIVE" : "int",
    "COMMENTS" : "int",
    "MULTILINE" : "int",
    "LITERAL" : "int",
    "DOTALL" : "int",
    "UNICODE_CASE" : "int",
    "CANON_EQ" : "int",
    "UNICODE_CHARACTER_CLASS" : "int",
    "serialVersionUID" : "long",
    "pattern" : "String",
    "flags" : "int",
    "compiled" : "boolean",
    "normalizedPattern" : "String",
    "root" : {
      "next" : { }
    },
    "matchRoot" : {
      "next" : { }
    },
    "buffer" : "[]",
    "namedGroups" : { },
    "groupNodes" : "[]",
    "temp" : "[]",
    "capturingGroupCount" : "int",
    "localCount" : "int",
    "cursor" : "int",
    "patternLength" : "int",
    "hasSupplementary" : "boolean",
    "MAX_REPS" : "int",
    "GREEDY" : "int",
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String",
  "applicationName" : "String"
} ],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String",
"applicationBookName" : "String",
"parentApplicationGroups" : {
  "serialVersionUID" : "long",
  "DEFAULT_CAPACITY" : "int",
  "EMPTY_ELEMENTDATA" : "[]",
```


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```
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "uuid" : "String",
        "display_name" : "String",
        "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "description" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "applications" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
    "threat-policy" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "condition-actions" : {
      "condition-action" : [ {
        "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
        "description" : "String",
        "ips-enabled" : "Boolean",
        "priority" : "int",
        "condition-status" : [ "INACTIVE", "ACTIVE" ],
        "condition" : { },
        "threat-policy" : { },
        "scheduler" : { },
        "dynamic-application-profile" : { },
        "ssl-forward-proxy-profile" : { },
        "app-fw-policy" : { },
        "secure-web-proxy" : { },
        "utm-policy" : { },
        "ips-policy" : { },
        "vpn-tunnel-refs" : {
          "id" : "Integer",
          "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required",
"Deleted" ],
          "vpn-name" : "String",
          "name" : "String",
          "domain-id" : "Integer",
          "domain-name" : "String",
          "is-managed" : "Boolean",
          "uri" : "String"
        },
        "disabled" : "Boolean",
```


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```
    "logging" : "Boolean",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String"
},
"custom-column-data" : "String",
"description" : "String",
"sourceidentities" : {
  "sourceidentity" : [ "String" ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"last-modified-time" : "Date",
"created-by-user-name" : "String",
"destination-zone" : {
  "zone" : [ {
    "id" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
    "resolved" : "Boolean",
    "domain-id" : "Integer",
    "name" : "String",
    "domain-name" : "String",
    "variable-id" : "Integer",
    "default-value" : "String",
    "uri" : "String",
    "peer-ams" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"name" : "String",
"source-zone" : {
  "zone" : [ {
    "id" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
    "resolved" : "Boolean",
    "domain-id" : "Integer",
    "name" : "String",
    "domain-name" : "String",
    "variable-id" : "Integer",
    "default-value" : "String",
    "uri" : "String",
    "peer-ams" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"ssl-forward-proxy-profile" : {
  "id" : "Integer",
  "name" : "String",
  "domain-id" : "Integer",
  "domain-name" : "String",
  "uri" : "String"
},
"machine-identity" : {
  "uuid" : "String",
  "name" : "String",
  "domain-id" : "Integer",
  "uri" : "String"
},
"dynamic-application-profile" : {
  "id" : "Integer",
  "name" : "String",
```


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```
      "domain-id" : "Integer",
      "uri" : "String"
    },
    "url-category" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "text" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "source-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "uri" : "String"
    },
    "is-condition-used" : "Boolean",
    "uri" : "String",
    "srcMetadataExpression" : "String",
    "dstMetadataExpression" : "String"
  } ],
  "last-successfully-deployed-time" : "Date",
  "last-modified-time" : "Date",
  "edit-version" : "Integer",
```


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```
  "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
  "fwPolicy-type" : [ "TRADITIONAL", "UNIFIED" ],
  "policy-state" : [ "DRAFT", "FINAL" ],
  "policy-order" : "Double",
  "created-time" : "Date",
  "name" : "String",
  "domain-id" : "Integer",
  "description" : "String",
  "id" : "Integer",
  "created-by-user-name" : "String",
  "policy-position" : [ "DEVICE", "PRE", "POST" ],
  "version" : "Integer",
  "uri" : "String",
  "policy-profile" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
  },
  "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
  "last-modified-by-user-name" : "String",
  "locked-for-edit" : "Boolean",
  "ips-policy" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "uri" : "String",
    "ips-policy-type" : "String",
    "policy-state" : "String",
    "last-modified-by-user-name" : "String",
    "last-modified-time" : "String",
    "created-by-user-name" : "String",
    "created-time" : "String",
    "locked-for-edit" : "String",
    "MOID" : "String",
    "policy-order" : "String",
    "policy-position" : "String",
    "rule-count" : "Integer",
    "selected" : "String",
    "_resultId" : "String",
    "has-OOB-changes" : "String",
    "edit-version" : "String",
    "href" : "String",
    "device-count" : "Integer",
    "text" : "String",
    "dirty-rule-count" : "Integer",
    "disabled" : "String",
    "policy-type" : "String"
   }
  }
}
```


Get Firewall Detailed Policy By ID

This request is used to get any detailed policy by its ID.

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URI	/api/juniper/sd/policy-management/firewall/policies/detailedPolicy/{policy-id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.firewall.policy+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.firewall.policy+json;version=2;q=0.02
Access-Control	managePolicies

Sample JSON Output:


```
{
  "policy" : {
    "policy-details" : [ {
      "app-fw-policy" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "atp-source-ip-to-feed" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "atp-destination-ip-to-feed" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "secure-web-proxy" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
      "utm-policy" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
```


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```
      "uri" : "String"
    },
    "ips-policy" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "rule-profile" : {
      "profile-type" : [ "CUSTOM", "USER_DEFINED", "INHERITED", "NONE" ],
      "user-defined-profile" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      },
      "custom-profile" : {
        "web-redirect" : "Boolean",
        "tcp-syn-check" : "Boolean",
        "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
        "per-second-alarm-threshold" : "Long",
        "per-minute-alarm-threshold" : "Long",
        "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
        "user-firewall-domain" : "String",
        "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
        "sd-template" : {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        },
        "redirect-url" : "String",
        "web-redirect-to-https" : "Boolean",
        "access-profile-name" : "String",
        "enable-count" : "Boolean",
        "log-at-session-close" : "Boolean",
        "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION",
"WEB_AUTHENTICATION", "USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
        "auth-only-browser" : "Boolean",
        "auth-user-agent" : "String",
        "service-offload" : "Boolean",
        "no-service-offload" : "Boolean",
        "tcp-seq-check" : "Boolean",
        "window-scale-check" : "Boolean",
        "initial-tcp-mss" : "Integer",
        "reverse-tcp-mss" : "Integer",
        "pass-thru-auth-client-name" : "String",
        "web-auth-client-name" : "String",
        "push-to-jims" : "Boolean",
        "log-at-session-init-time" : "Boolean",
        "uri" : "String"
      },
      "uri" : "String"
    },
    "rule-order" : "Integer",
    "ips-enabled" : "Boolean",
    "policy-id" : "Integer",
    "destination-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
```


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```
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "uri" : "String"
    },
    "version" : "Integer",
    "last-modified-by-user-name" : "String",
    "rule-type" : [ "RULE", "RULEGROUP" ],
    "change-type" : [ "ADD", "DELETE", "MODIFY" ],
    "vpn-tunnel-refs" : {
      "id" : "Integer",
      "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
      "vpn-name" : "String",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "is-managed" : "Boolean",
      "uri" : "String"
    },
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "id" : "Integer",
    "hit-count-details" : {
      "id" : "String",
      "level" : [ "Zero", "High", "Medium", "Low" ],
      "status" : [ "NOT_APPLICABLE", "NOT_AVAILABLE", "AVAILABLE" ],
      "total-hit-count" : "Long",
      "hit-count" : "Long",
      "name" : "String",
      "last-reset-time-stamp" : "Long",
      "hit-percent" : "Double",
```


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```
      "last-hit-time-stamp" : "Long",
      "first-hit-time-stamp" : "Long",
      "uri" : "String"
    },
    "created-time" : "Date",
    "edit-version" : "Integer",
    "rule-group-id" : "Integer",
    "scheduler" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "services" : {
      "service-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean",
        "uri" : "String"
      } ],
      "service-details" : [ {
        "service_refs" : [ {
          "protocols" : [ {
            "name" : "String",
            "description" : "String",
            "alg" : "String",
            "srcPort" : "String",
            "dstPort" : "String",
            "disableTimeout" : "boolean",
            "inactivityTimeout" : "Integer",
            "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
            "rpcProgramNumber" : "String",
            "icmpCode" : "int",
            "icmpType" : "int",
            "sunrpcProtocolType" : [ "TCP", "UDP" ],
            "msrpcProtocolType" : [ "TCP", "UDP" ],
            "UUIDPattern" : {
              "UNIX_LINES" : "int",
              "CASE_INSENSITIVE" : "int",
              "COMMENTS" : "int",
              "MULTILINE" : "int",
              "LITERAL" : "int",
              "DOTALL" : "int",
              "UNICODE_CASE" : "int",
              "CANON_EQ" : "int",
              "UNICODE_CHARACTER_CLASS" : "int",
              "serialVersionUID" : "long",
              "pattern" : "String",
              "flags" : "int",
              "compiled" : "boolean",
              "normalizedPattern" : "String",
              "root" : {
                "next" : { }
              },
              "matchRoot" : {
                "next" : { }
              },
              "buffer" : "[]",
              "namedGroups" : { },
              "groupNodes" : "[]",
              "temp" : "[]",
```


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```
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
```


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```
          },
          "$assertionsDisabled" : "boolean"
        },
        "protocolNumber" : "int",
        "uuid" : "String",
        "applicationName" : "String"
      } ],
      "displayName" : "String",
      "isGroup" : "Boolean",
      "applicationMembers" : [ ],
      "hashKey" : "String",
      "applicationBookName" : "String",
      "parentApplicationGroups" : {
        "serialVersionUID" : "long",
        "DEFAULT_CAPACITY" : "int",
        "EMPTY_ELEMENTDATA" : "[]",
        "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
        "elementData" : "[]",
        "size" : "int",
        "MAX_ARRAY_SIZE" : "int"
      }
    } ],
    "uuid" : "String",
    "display_name" : "String",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "description" : "String",
    "domain-id" : "Integer",
    "name" : "String",
    "is-group" : "Boolean",
    "uri" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"applications" : {
  "reference" : [ {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
  } ],
  "uri" : "String"
},
"action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
"threat-policy" : {
  "id" : "Integer",
  "name" : "String",
  "domain-id" : "Integer",
  "domain-name" : "String",
  "uri" : "String"
},
"condition-actions" : {
  "condition-action" : [ {
    "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
    "description" : "String",
    "ips-enabled" : "Boolean",
    "priority" : "int",
    "condition-status" : [ "INACTIVE", "ACTIVE" ],
    "condition" : { },
    "threat-policy" : { },
    "scheduler" : { },
    "dynamic-application-profile" : { },
    "ssl-forward-proxy-profile" : { },
```


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```
          "app-fw-policy" : { },
          "secure-web-proxy" : { },
          "utm-policy" : { },
          "ips-policy" : { },
          "vpn-tunnel-refs" : {
            "id" : "Integer",
            "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required",
"Deleted" ],
            "vpn-name" : "String",
            "name" : "String",
            "domain-id" : "Integer",
            "domain-name" : "String",
            "is-managed" : "Boolean",
            "uri" : "String"
          },
          "disabled" : "Boolean",
          "logging" : "Boolean",
          "uri" : "String",
          "link" : "String"
        } ],
        "uri" : "String"
      },
      "custom-column-data" : "String",
      "description" : "String",
      "sourceidentities" : {
        "sourceidentity" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "last-modified-time" : "Date",
      "created-by-user-name" : "String",
      "destination-zone" : {
        "zone" : [ {
          "id" : "Integer",
          "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
          "resolved" : "Boolean",
          "domain-id" : "Integer",
          "name" : "String",
          "domain-name" : "String",
          "variable-id" : "Integer",
          "default-value" : "String",
          "uri" : "String",
          "peer-ams" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "name" : "String",
      "source-zone" : {
        "zone" : [ {
          "id" : "Integer",
          "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
          "resolved" : "Boolean",
          "domain-id" : "Integer",
          "name" : "String",
          "domain-name" : "String",
          "variable-id" : "Integer",
          "default-value" : "String",
          "uri" : "String",
          "peer-ams" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
```


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```
      "ssl-forward-proxy-profile" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "machine-identity" : {
        "uuid" : "String",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      },
      "dynamic-application-profile" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      },
      "url-category" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "domain-name" : "String",
          "text" : "String",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "source-address" : {
        "exclude-list" : "Boolean",
        "addresses" : {
          "address-reference" : [ {
            "address_refs" : [ {
              "members" : [ ],
              "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
              "ipAddress" : "String",
              "hostName" : "String",
              "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
              "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
              "zone" : "String",
              "variableId" : "Integer",
              "hashKey" : "String",
              "addressBookName" : "String",
              "associatedMetadata" : "String",
              "parentAddressGroups" : {
                "serialVersionUID" : "long",
                "DEFAULT_CAPACITY" : "int",
                "EMPTY_ELEMENTDATA" : "[]",
                "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
                "elementData" : "[]",
                "size" : "int",
                "MAX_ARRAY_SIZE" : "int"
              }
            } ],
            "id" : "String",
            "uuid" : "String",
            "domain-id" : "Integer",
            "name" : "String",
            "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
```


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```
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "uri" : "String"
    },
    "is-condition-used" : "Boolean",
    "uri" : "String",
    "srcMetadataExpression" : "String",
    "dstMetadataExpression" : "String"
  } ],
  "last-successfully-deployed-time" : "Date",
  "last-modified-time" : "Date",
  "edit-version" : "Integer",
  "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
  "fwPolicy-type" : [ "TRADITIONAL", "UNIFIED" ],
  "policy-state" : [ "DRAFT", "FINAL" ],
  "policy-order" : "Double",
  "created-time" : "Date",
  "name" : "String",
  "domain-id" : "Integer",
  "description" : "String",
  "id" : "Integer",
  "created-by-user-name" : "String",
  "policy-position" : [ "DEVICE", "PRE", "POST" ],
  "version" : "Integer",
  "uri" : "String",
  "policy-profile" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
  },
  "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
  "last-modified-by-user-name" : "String",
  "locked-for-edit" : "Boolean",
  "ips-policy" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "uri" : "String",
    "ips-policy-type" : "String",
    "policy-state" : "String",
    "last-modified-by-user-name" : "String",
    "last-modified-time" : "String",
    "created-by-user-name" : "String",
    "created-time" : "String",
    "locked-for-edit" : "String",
    "MOID" : "String",
    "policy-order" : "String",
    "policy-position" : "String",
    "rule-count" : "Integer",
    "selected" : "String",
    "_resultId" : "String",
    "has-OOB-changes" : "String",
    "edit-version" : "String",
    "href" : "String",
    "device-count" : "Integer",
    "text" : "String",
    "dirty-rule-count" : "Integer",
```


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```
      "disabled" : "String",
      "policy-type" : "String"
    }
  }
}
```

Create Firewall Policy

This request is used to create a new firewall policy.

URI	/api/juniper/sd/policy-management/firewall/policies
HTTP method	POST
Content-Type	application/vnd.juniper.sd.policy-management.firewall.policy+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.policy-management.firewall.policy+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.policy-management.firewall.policy+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.firewall.policy+json;version=2;q=0.02
Access-Control	CreatePolicy

Sample JSON Input

```
{
  "policy" : {
    "policy-details" : [ {
      "app-fw-policy" : {
        "id" : "Integer",
        "name" : "String"
      },
      "atp-source-ip-to-feed" : {
        "id" : "Integer",
        "name" : "String"
      },
      "atp-destination-ip-to-feed" : {
        "id" : "Integer",
        "name" : "String"
      },
      "secure-web-proxy" : {
        "id" : "Integer",
```


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```
        "name" : "String"
      },
      "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
      "utm-policy" : {
        "id" : "Integer",
        "name" : "String"
      },
      "ips-policy" : {
        "id" : "Integer",
        "name" : "String"
      },
      "rule-profile" : {
        "profile-type" : [ "CUSTOM", "USER_DEFINED", "INHERITED", "NONE" ],
        "user-defined-profile" : {
          "id" : "Integer",
          "name" : "String"
        },
        "custom-profile" : {
          "web-redirect" : "Boolean",
          "tcp-syn-check" : "Boolean",
          "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
          "per-second-alarm-threshold" : "Long",
          "per-minute-alarm-threshold" : "Long",
          "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
          "user-firewall-domain" : "String",
          "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
          "sd-template" : {
            "id" : "Integer",
            "name" : "String"
          },
          "redirect-url" : "String",
          "web-redirect-to-https" : "Boolean",
          "access-profile-name" : "String",
          "enable-count" : "Boolean",
          "log-at-session-close" : "Boolean",
          "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION",
"WEB_AUTHENTICATION", "USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
          "auth-only-browser" : "Boolean",
          "auth-user-agent" : "String",
          "service-offload" : "Boolean",
          "no-service-offload" : "Boolean",
          "tcp-seq-check" : "Boolean",
          "window-scale-check" : "Boolean",
          "initial-tcp-mss" : "Integer",
          "reverse-tcp-mss" : "Integer",
          "pass-thru-auth-client-name" : "String",
          "web-auth-client-name" : "String",
          "push-to-jims" : "Boolean",
          "log-at-session-init-time" : "Boolean"
        }
      },
      "rule-order" : "Integer",
      "ips-enabled" : "Boolean",
      "policy-id" : "Integer",
      "destination-address" : {
        "exclude-list" : "Boolean",
        "addresses" : {
          "address-reference" : [ {
            "address_refs" : [ {
              "members" : [ ],
              "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
```


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```
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
        } ]
      }
    },
    "version" : "Integer",
    "rule-type" : [ "RULE", "RULEGROUP" ],
    "change-type" : [ "ADD", "DELETE", "MODIFY" ],
    "vpn-tunnel-refs" : {
      "id" : "Integer",
      "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
      "vpn-name" : "String",
      "name" : "String",
      "is-managed" : "Boolean"
    },
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "id" : "Integer",
    "hit-count-details" : {
      "id" : "String",
      "level" : [ "Zero", "High", "Medium", "Low" ],
      "status" : [ "NOT_APPLICABLE", "NOT_AVAILABLE", "AVAILABLE" ],
      "total-hit-count" : "Long",
      "hit-count" : "Long",
      "name" : "String",
      "last-reset-time-stamp" : "Long",
      "hit-percent" : "Double",
      "last-hit-time-stamp" : "Long",
      "first-hit-time-stamp" : "Long"
    },
    "edit-version" : "Integer",
    "rule-group-id" : "Integer",
    "scheduler" : {
      "id" : "Integer",
      "name" : "String"
    },
    "services" : {
      "service-reference" : [ {
        "id" : "Integer",
```


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```
        "name" : "String",
        "is-group" : "Boolean"
      } ],
      "service-details" : [ {
        "service_refs" : [ {
          "protocols" : [ {
            "name" : "String",
            "description" : "String",
            "alg" : "String",
            "srcPort" : "String",
            "dstPort" : "String",
            "disableTimeout" : "boolean",
            "inactivityTimeout" : "Integer",
            "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
            "rpcProgramNumber" : "String",
            "icmpCode" : "int",
            "icmpType" : "int",
            "sunrpcProtocolType" : [ "TCP", "UDP" ],
            "msrpcProtocolType" : [ "TCP", "UDP" ],
            "UUIDPattern" : {
              "UNIX_LINES" : "int",
              "CASE_INSENSITIVE" : "int",
              "COMMENTS" : "int",
              "MULTILINE" : "int",
              "LITERAL" : "int",
              "DOTALL" : "int",
              "UNICODE_CASE" : "int",
              "CANON_EQ" : "int",
              "UNICODE_CHARACTER_CLASS" : "int",
              "serialVersionUID" : "long",
              "pattern" : "String",
              "flags" : "int",
              "compiled" : "boolean",
              "normalizedPattern" : "String",
              "root" : {
                "next" : { }
              },
              "matchRoot" : {
                "next" : { }
              },
              "buffer" : "[]",
              "namedGroups" : { },
              "groupNodes" : "[]",
              "temp" : "[]",
              "capturingGroupCount" : "int",
              "localCount" : "int",
              "cursor" : "int",
              "patternLength" : "int",
              "hasSupplementary" : "boolean",
              "MAX_REPS" : "int",
              "GREEDY" : "int",
              "LAZY" : "int",
              "POSSESSIVE" : "int",
              "INDEPENDENT" : "int",
              "lookbehindEnd" : {
                "next" : { }
              },
              "accept" : {
                "next" : { }
              },
              "lastAccept" : {
                "next" : { }
              },
```


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```
    "$assertionsDisabled" : "boolean"
   },
   "numericPattern" : {
    "UNIX_LINES" : "int",
    "CASE_INSENSITIVE" : "int",
    "COMMENTS" : "int",
    "MULTILINE" : "int",
    "LITERAL" : "int",
    "DOTALL" : "int",
    "UNICODE_CASE" : "int",
    "CANON_EQ" : "int",
    "UNICODE_CHARACTER_CLASS" : "int",
    "serialVersionUID" : "long",
    "pattern" : "String",
    "flags" : "int",
    "compiled" : "boolean",
    "normalizedPattern" : "String",
    "root" : {
     "next" : { }
    },
    "matchRoot" : {
     "next" : { }
    },
    "buffer" : "[]",
    "namedGroups" : { },
    "groupNodes" : "[]",
    "temp" : "[]",
    "capturingGroupCount" : "int",
    "localCount" : "int",
    "cursor" : "int",
    "patternLength" : "int",
    "hasSupplementary" : "boolean",
    "MAX_REPS" : "int",
    "GREEDY" : "int",
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
     "next" : { }
    },
    "accept" : {
     "next" : { }
    },
    "lastAccept" : {
     "next" : { }
    },
    "$assertionsDisabled" : "boolean"
   },
   "protocolNumber" : "int",
   "uuid" : "String",
   "applicationName" : "String"
  } ],
  "displayName" : "String",
  "isGroup" : "Boolean",
  "applicationMembers" : [ ],
  "hashKey" : "String",
  "applicationBookName" : "String",
  "parentApplicationGroups" : {
   "serialVersionUID" : "long",
   "DEFAULT_CAPACITY" : "int",
   "EMPTY_ELEMENTDATA" : "[]",
   "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
   "elementData" : "[]",
   "size" : "int",
```


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```
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "uuid" : "String",
        "display_name" : "String",
        "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "description" : "String",
        "name" : "String",
        "is-group" : "Boolean"
      } ],
      "totalSize" : "Integer"
    },
    "applications" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String"
      } ]
    },
    "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
    "threat-policy" : {
      "id" : "Integer",
      "name" : "String"
    },
    "condition-actions" : {
      "condition-action" : [ {
        "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
        "description" : "String",
        "ips-enabled" : "Boolean",
        "priority" : "int",
        "condition-status" : [ "INACTIVE", "ACTIVE" ],
        "condition" : { },
        "threat-policy" : { },
        "scheduler" : { },
        "dynamic-application-profile" : { },
        "ssl-forward-proxy-profile" : { },
        "app-fw-policy" : { },
        "secure-web-proxy" : { },
        "utm-policy" : { },
        "ips-policy" : { },
        "vpn-tunnel-refs" : {
          "id" : "Integer",
          "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required",
"Deleted" ],
          "vpn-name" : "String",
          "name" : "String",
          "is-managed" : "Boolean"
        },
        "disabled" : "Boolean",
        "logging" : "Boolean"
      } ]
    },
    "custom-column-data" : "String",
    "description" : "String",
    "sourceidentities" : {
      "sourceidentity" : [ "String" ],
      "totalSize" : "Integer"
    },
    "destination-zone" : {
      "zone" : [ {
        "id" : "Integer",
        "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
        "resolved" : "Boolean",
        "name" : "String",
        "variable-id" : "Integer",
```


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```
        "default-value" : "String",
        "peer-ams" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "name" : "String",
    "source-zone" : {
      "zone" : [ {
        "id" : "Integer",
        "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
        "resolved" : "Boolean",
        "name" : "String",
        "variable-id" : "Integer",
        "default-value" : "String",
        "peer-ams" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "ssl-forward-proxy-profile" : {
      "id" : "Integer",
      "name" : "String"
    },
    "machine-identity" : {
      "uuid" : "String",
      "name" : "String"
    },
    "dynamic-application-profile" : {
      "id" : "Integer",
      "name" : "String"
    },
    "url-category" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "text" : "String"
      } ]
    },
    "source-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
```


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```
            } ],
            "id" : "String",
            "uuid" : "String",
            "name" : "String",
            "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "variable-id" : "Integer"
          } ]
        }
      },
      "is-condition-used" : "Boolean",
      "srcMetadataExpression" : "String",
      "dstMetadataExpression" : "String"
    } ],
    "last-successfully-deployed-time" : "Date",
    "edit-version" : "Integer",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "fwPolicy-type" : [ "TRADITIONAL", "UNIFIED" ],
    "policy-state" : [ "DRAFT", "FINAL" ],
    "policy-order" : "Double",
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "policy-position" : [ "DEVICE", "PRE", "POST" ],
    "version" : "Integer",
    "policy-profile" : {
      "id" : "Integer",
      "name" : "String"
    },
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "locked-for-edit" : "Boolean",
    "ips-policy" : {
      "id" : "Integer",
      "name" : "String",
      "ips-policy-type" : "String",
      "policy-state" : "String",
      "locked-for-edit" : "String",
      "MOID" : "String",
      "policy-order" : "String",
      "policy-position" : "String",
      "rule-count" : "Integer",
      "selected" : "String",
      "_resultId" : "String",
      "has-OOB-changes" : "String",
      "edit-version" : "String",
      "href" : "String",
      "device-count" : "Integer",
      "text" : "String",
      "dirty-rule-count" : "Integer",
      "disabled" : "String",
      "policy-type" : "String"
    }
  }
}
```


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Sample JSON Output:


```
{
  "policy" : {
    "policy-details" : [ {
      "app-fw-policy" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "atp-source-ip-to-feed" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "atp-destination-ip-to-feed" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "secure-web-proxy" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
      "utm-policy" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "ips-policy" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "rule-profile" : {
        "profile-type" : [ "CUSTOM", "USER_DEFINED", "INHERITED", "NONE" ],
        "user-defined-profile" : {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        },
        "custom-profile" : {
          "web-redirect" : "Boolean",
          "tcp-syn-check" : "Boolean",
          "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
          "per-second-alarm-threshold" : "Long",
          "per-minute-alarm-threshold" : "Long",
          "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
```


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```
        "user-firewall-domain" : "String",
        "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
        "sd-template" : {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        },
        "redirect-url" : "String",
        "web-redirect-to-https" : "Boolean",
        "access-profile-name" : "String",
        "enable-count" : "Boolean",
        "log-at-session-close" : "Boolean",
        "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION",
"WEB_AUTHENTICATION", "USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
        "auth-only-browser" : "Boolean",
        "auth-user-agent" : "String",
        "service-offload" : "Boolean",
        "no-service-offload" : "Boolean",
        "tcp-seq-check" : "Boolean",
        "window-scale-check" : "Boolean",
        "initial-tcp-mss" : "Integer",
        "reverse-tcp-mss" : "Integer",
        "pass-thru-auth-client-name" : "String",
        "web-auth-client-name" : "String",
        "push-to-jims" : "Boolean",
        "log-at-session-init-time" : "Boolean",
        "uri" : "String"
      },
      "uri" : "String"
    },
    "rule-order" : "Integer",
    "ips-enabled" : "Boolean",
    "policy-id" : "Integer",
    "destination-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
```


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```
            "domain-id" : "Integer",
            "name" : "String",
            "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "variable-id" : "Integer",
            "uri" : "String"
          } ],
          "uri" : "String"
        },
        "uri" : "String"
      },
      "version" : "Integer",
      "last-modified-by-user-name" : "String",
      "rule-type" : [ "RULE", "RULEGROUP" ],
      "change-type" : [ "ADD", "DELETE", "MODIFY" ],
      "vpn-tunnel-refs" : {
        "id" : "Integer",
        "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
        "vpn-name" : "String",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "is-managed" : "Boolean",
        "uri" : "String"
      },
      "disabled" : "Boolean",
      "rulegroup-disabled" : "Boolean",
      "id" : "Integer",
      "hit-count-details" : {
        "id" : "String",
        "level" : [ "Zero", "High", "Medium", "Low" ],
        "status" : [ "NOT_APPLICABLE", "NOT_AVAILABLE", "AVAILABLE" ],
        "total-hit-count" : "Long",
        "hit-count" : "Long",
        "name" : "String",
        "last-reset-time-stamp" : "Long",
        "hit-percent" : "Double",
        "last-hit-time-stamp" : "Long",
        "first-hit-time-stamp" : "Long",
        "uri" : "String"
      },
      "created-time" : "Date",
      "edit-version" : "Integer",
      "rule-group-id" : "Integer",
      "scheduler" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "services" : {
        "service-reference" : [ {
          "id" : "Integer",
          "domain-id" : "Integer",
          "name" : "String",
          "is-group" : "Boolean",
          "uri" : "String"
        } ],
        "service-details" : [ {
          "service_refs" : [ {
            "protocols" : [ {
```


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```
            "name" : "String",
            "description" : "String",
            "alg" : "String",
            "srcPort" : "String",
            "dstPort" : "String",
            "disableTimeout" : "boolean",
            "inactivityTimeout" : "Integer",
            "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
            "rpcProgramNumber" : "String",
            "icmpCode" : "int",
            "icmpType" : "int",
            "sunrpcProtocolType" : [ "TCP", "UDP" ],
            "msrpcProtocolType" : [ "TCP", "UDP" ],
            "UUIDPattern" : {
              "UNIX_LINES" : "int",
              "CASE_INSENSITIVE" : "int",
              "COMMENTS" : "int",
              "MULTILINE" : "int",
              "LITERAL" : "int",
              "DOTALL" : "int",
              "UNICODE_CASE" : "int",
              "CANON_EQ" : "int",
              "UNICODE_CHARACTER_CLASS" : "int",
              "serialVersionUID" : "long",
              "pattern" : "String",
              "flags" : "int",
              "compiled" : "boolean",
              "normalizedPattern" : "String",
              "root" : {
                "next" : { }
              },
              "matchRoot" : {
                "next" : { }
              },
              "buffer" : "[]",
              "namedGroups" : { },
              "groupNodes" : "[]",
              "temp" : "[]",
              "capturingGroupCount" : "int",
              "localCount" : "int",
              "cursor" : "int",
              "patternLength" : "int",
              "hasSupplementary" : "boolean",
              "MAX_REPS" : "int",
              "GREEDY" : "int",
              "LAZY" : "int",
              "POSSESSIVE" : "int",
              "INDEPENDENT" : "int",
              "lookbehindEnd" : {
                "next" : { }
              },
              "accept" : {
                "next" : { }
              },
              "lastAccept" : {
                "next" : { }
              },
              "$assertionsDisabled" : "boolean"
            },
            "numericPattern" : {
              "UNIX_LINES" : "int",
              "CASE_INSENSITIVE" : "int",
              "COMMENTS" : "int",
```


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```
      "MULTILINE" : "int",
      "LITERAL" : "int",
      "DOTALL" : "int",
      "UNICODE_CASE" : "int",
      "CANON_EQ" : "int",
      "UNICODE_CHARACTER_CLASS" : "int",
      "serialVersionUID" : "long",
      "pattern" : "String",
      "flags" : "int",
      "compiled" : "boolean",
      "normalizedPattern" : "String",
      "root" : {
        "next" : { }
      },
      "matchRoot" : {
        "next" : { }
      },
      "buffer" : "[]",
      "namedGroups" : { },
      "groupNodes" : "[]",
      "temp" : "[]",
      "capturingGroupCount" : "int",
      "localCount" : "int",
      "cursor" : "int",
      "patternLength" : "int",
      "hasSupplementary" : "boolean",
      "MAX_REPS" : "int",
      "GREEDY" : "int",
      "LAZY" : "int",
      "POSSESSIVE" : "int",
      "INDEPENDENT" : "int",
      "lookbehindEnd" : {
        "next" : { }
      },
      "accept" : {
        "next" : { }
      },
      "lastAccept" : {
        "next" : { }
      },
      "$assertionsDisabled" : "boolean"
    },
    "protocolNumber" : "int",
    "uuid" : "String",
    "applicationName" : "String"
  } ],
  "displayName" : "String",
  "isGroup" : "Boolean",
  "applicationMembers" : [ ],
  "hashKey" : "String",
  "applicationBookName" : "String",
  "parentApplicationGroups" : {
    "serialVersionUID" : "long",
    "DEFAULT_CAPACITY" : "int",
    "EMPTY_ELEMENTDATA" : "[]",
    "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
    "elementData" : "[]",
    "size" : "int",
    "MAX_ARRAY_SIZE" : "int"
  }
} ],
"uuid" : "String",
"display_name" : "String",
"definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
```


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```
        "description" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "applications" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
    "threat-policy" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "condition-actions" : {
      "condition-action" : [ {
        "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
        "description" : "String",
        "ips-enabled" : "Boolean",
        "priority" : "int",
        "condition-status" : [ "INACTIVE", "ACTIVE" ],
        "condition" : { },
        "threat-policy" : { },
        "scheduler" : { },
        "dynamic-application-profile" : { },
        "ssl-forward-proxy-profile" : { },
        "app-fw-policy" : { },
        "secure-web-proxy" : { },
        "utm-policy" : { },
        "ips-policy" : { },
        "vpn-tunnel-refs" : {
          "id" : "Integer",
          "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required",
"Deleted" ],
          "vpn-name" : "String",
          "name" : "String",
          "domain-id" : "Integer",
          "domain-name" : "String",
          "is-managed" : "Boolean",
          "uri" : "String"
        },
        "disabled" : "Boolean",
        "logging" : "Boolean",
        "uri" : "String",
        "link" : "String"
      } ],
      "uri" : "String"
    },
    "custom-column-data" : "String",
    "description" : "String",
    "sourceidentities" : {
```


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```
  "sourceidentity" : [ "String" ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"last-modified-time" : "Date",
"created-by-user-name" : "String",
"destination-zone" : {
  "zone" : [ {
    "id" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
    "resolved" : "Boolean",
    "domain-id" : "Integer",
    "name" : "String",
    "domain-name" : "String",
    "variable-id" : "Integer",
    "default-value" : "String",
    "uri" : "String",
    "peer-ams" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"name" : "String",
"source-zone" : {
  "zone" : [ {
    "id" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
    "resolved" : "Boolean",
    "domain-id" : "Integer",
    "name" : "String",
    "domain-name" : "String",
    "variable-id" : "Integer",
    "default-value" : "String",
    "uri" : "String",
    "peer-ams" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"ssl-forward-proxy-profile" : {
  "id" : "Integer",
  "name" : "String",
  "domain-id" : "Integer",
  "domain-name" : "String",
  "uri" : "String"
},
"machine-identity" : {
  "uuid" : "String",
  "name" : "String",
  "domain-id" : "Integer",
  "uri" : "String"
},
"dynamic-application-profile" : {
  "id" : "Integer",
  "name" : "String",
  "domain-id" : "Integer",
  "uri" : "String"
},
"url-category" : {
  "reference" : [ {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
```


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```
          "text" : "String",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "source-address" : {
        "exclude-list" : "Boolean",
        "addresses" : {
          "address-reference" : [ {
            "address_refs" : [ {
              "members" : [ ],
              "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
              "ipAddress" : "String",
              "hostName" : "String",
              "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
              "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
              "zone" : "String",
              "variableId" : "Integer",
              "hashKey" : "String",
              "addressBookName" : "String",
              "associatedMetadata" : "String",
              "parentAddressGroups" : {
                "serialVersionUID" : "long",
                "DEFAULT_CAPACITY" : "int",
                "EMPTY_ELEMENTDATA" : "[]",
                "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
                "elementData" : "[]",
                "size" : "int",
                "MAX_ARRAY_SIZE" : "int"
              }
            } ],
            "id" : "String",
            "uuid" : "String",
            "domain-id" : "Integer",
            "name" : "String",
            "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "variable-id" : "Integer",
            "uri" : "String"
          } ],
          "uri" : "String"
        },
        "uri" : "String"
      },
      "is-condition-used" : "Boolean",
      "uri" : "String",
      "srcMetadataExpression" : "String",
      "dstMetadataExpression" : "String"
    } ],
    "last-successfully-deployed-time" : "Date",
    "last-modified-time" : "Date",
    "edit-version" : "Integer",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "fwPolicy-type" : [ "TRADITIONAL", "UNIFIED" ],
    "policy-state" : [ "DRAFT", "FINAL" ],
    "policy-order" : "Double",
    "created-time" : "Date",
    "name" : "String",
    "domain-id" : "Integer",
    "description" : "String",
    "id" : "Integer",
```


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```
  "created-by-user-name" : "String",
  "policy-position" : [ "DEVICE", "PRE", "POST" ],
  "version" : "Integer",
  "uri" : "String",
  "policy-profile" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
  },
  "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
  "last-modified-by-user-name" : "String",
  "locked-for-edit" : "Boolean",
  "ips-policy" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "uri" : "String",
    "ips-policy-type" : "String",
    "policy-state" : "String",
    "last-modified-by-user-name" : "String",
    "last-modified-time" : "String",
    "created-by-user-name" : "String",
    "created-time" : "String",
    "locked-for-edit" : "String",
    "MOID" : "String",
    "policy-order" : "String",
    "policy-position" : "String",
    "rule-count" : "Integer",
    "selected" : "String",
    "_resultId" : "String",
    "has-OOB-changes" : "String",
    "edit-version" : "String",
    "href" : "String",
    "device-count" : "Integer",
    "text" : "String",
    "dirty-rule-count" : "Integer",
    "disabled" : "String",
    "policy-type" : "String"
   }
  }
}
```


Modify Firewall Policy

This request is used to modify an existing firewall policy. This operation is a full replace and therefore, you must provide all the basic information.

URI	/api/juniper/sd/policy-management/firewall/policies/{policy-id}
HTTP method	PUT

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Content-Type	application/vnd.juniper.sd.policy-management.firewall.policy+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.policy-management.firewall.policy+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.policy-management.firewall.policy+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.firewall.policy+json;version=2;q=0.02
Access-Control	ModifyPolicy

Sample JSON Input


```
{
  "policy" : {
    "policy-details" : [ {
      "app-fw-policy" : {
        "id" : "Integer",
        "name" : "String"
      },
      "atp-source-ip-to-feed" : {
        "id" : "Integer",
        "name" : "String"
      },
      "atp-destination-ip-to-feed" : {
        "id" : "Integer",
        "name" : "String"
      },
      "secure-web-proxy" : {
        "id" : "Integer",
        "name" : "String"
      },
      "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
      "utm-policy" : {
        "id" : "Integer",
        "name" : "String"
      },
      "ips-policy" : {
        "id" : "Integer",
        "name" : "String"
      },
      "rule-profile" : {
        "profile-type" : [ "CUSTOM", "USER_DEFINED", "INHERITED", "NONE" ],
        "user-defined-profile" : {
          "id" : "Integer",
          "name" : "String"
        },
        "custom-profile" : {
          "web-redirect" : "Boolean",
          "tcp-syn-check" : "Boolean",
          "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
          "per-second-alarm-threshold" : "Long",
          "per-minute-alarm-threshold" : "Long",
          "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
          "user-firewall-domain" : "String",
          "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
```


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```
        "sd-template" : {
          "id" : "Integer",
          "name" : "String"
        },
        "redirect-url" : "String",
        "web-redirect-to-https" : "Boolean",
        "access-profile-name" : "String",
        "enable-count" : "Boolean",
        "log-at-session-close" : "Boolean",
        "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION",
"WEB_AUTHENTICATION", "USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
        "auth-only-browser" : "Boolean",
        "auth-user-agent" : "String",
        "service-offload" : "Boolean",
        "no-service-offload" : "Boolean",
        "tcp-seq-check" : "Boolean",
        "window-scale-check" : "Boolean",
        "initial-tcp-mss" : "Integer",
        "reverse-tcp-mss" : "Integer",
        "pass-thru-auth-client-name" : "String",
        "web-auth-client-name" : "String",
        "push-to-jims" : "Boolean",
        "log-at-session-init-time" : "Boolean"
      }
    },
    "rule-order" : "Integer",
    "ips-enabled" : "Boolean",
    "policy-id" : "Integer",
    "destination-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
        } ]
```


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```
      }
    },
    "version" : "Integer",
    "rule-type" : [ "RULE", "RULEGROUP" ],
    "change-type" : [ "ADD", "DELETE", "MODIFY" ],
    "vpn-tunnel-refs" : {
      "id" : "Integer",
      "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
      "vpn-name" : "String",
      "name" : "String",
      "is-managed" : "Boolean"
    },
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "id" : "Integer",
    "hit-count-details" : {
      "id" : "String",
      "level" : [ "Zero", "High", "Medium", "Low" ],
      "status" : [ "NOT_APPLICABLE", "NOT_AVAILABLE", "AVAILABLE" ],
      "total-hit-count" : "Long",
      "hit-count" : "Long",
      "name" : "String",
      "last-reset-time-stamp" : "Long",
      "hit-percent" : "Double",
      "last-hit-time-stamp" : "Long",
      "first-hit-time-stamp" : "Long"
    },
    "edit-version" : "Integer",
    "rule-group-id" : "Integer",
    "scheduler" : {
      "id" : "Integer",
      "name" : "String"
    },
    "services" : {
      "service-reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean"
      } ],
      "service-details" : [ {
        "service_refs" : [ {
          "protocols" : [ {
            "name" : "String",
            "description" : "String",
            "alg" : "String",
            "srcPort" : "String",
            "dstPort" : "String",
            "disableTimeout" : "boolean",
            "inactivityTimeout" : "Integer",
            "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
            "rpcProgramNumber" : "String",
            "icmpCode" : "int",
            "icmpType" : "int",
            "sunrpcProtocolType" : [ "TCP", "UDP" ],
            "msrpcProtocolType" : [ "TCP", "UDP" ],
            "UUIDPattern" : {
              "UNIX_LINES" : "int",
              "CASE_INSENSITIVE" : "int",
              "COMMENTS" : "int",
              "MULTILINE" : "int",
              "LITERAL" : "int",
              "DOTALL" : "int",
```


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```
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
```


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```
          "capturingGroupCount" : "int",
          "localCount" : "int",
          "cursor" : "int",
          "patternLength" : "int",
          "hasSupplementary" : "boolean",
          "MAX_REPS" : "int",
          "GREEDY" : "int",
          "LAZY" : "int",
          "POSSESSIVE" : "int",
          "INDEPENDENT" : "int",
          "lookbehindEnd" : {
            "next" : { }
          },
          "accept" : {
            "next" : { }
          },
          "lastAccept" : {
            "next" : { }
          },
          "$assertionsDisabled" : "boolean"
        },
        "protocolNumber" : "int",
        "uuid" : "String",
        "applicationName" : "String"
      } ],
      "displayName" : "String",
      "isGroup" : "Boolean",
      "applicationMembers" : [ ],
      "hashKey" : "String",
      "applicationBookName" : "String",
      "parentApplicationGroups" : {
        "serialVersionUID" : "long",
        "DEFAULT_CAPACITY" : "int",
        "EMPTY_ELEMENTDATA" : "[]",
        "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
        "elementData" : "[]",
        "size" : "int",
        "MAX_ARRAY_SIZE" : "int"
      }
    } ],
    "uuid" : "String",
    "display_name" : "String",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "description" : "String",
    "name" : "String",
    "is-group" : "Boolean"
  } ],
  "totalSize" : "Integer"
},
"applications" : {
  "reference" : [ {
    "id" : "Integer",
    "name" : "String"
  } ]
},
"action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
"threat-policy" : {
  "id" : "Integer",
  "name" : "String"
},
"condition-actions" : {
  "condition-action" : [ {
    "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
    "description" : "String",
```


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```
          "ips-enabled" : "Boolean",
          "priority" : "int",
          "condition-status" : [ "INACTIVE", "ACTIVE" ],
          "condition" : { },
          "threat-policy" : { },
          "scheduler" : { },
          "dynamic-application-profile" : { },
          "ssl-forward-proxy-profile" : { },
          "app-fw-policy" : { },
          "secure-web-proxy" : { },
          "utm-policy" : { },
          "ips-policy" : { },
          "vpn-tunnel-refs" : {
            "id" : "Integer",
            "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required",
"Deleted" ],
            "vpn-name" : "String",
            "name" : "String",
            "is-managed" : "Boolean"
          },
          "disabled" : "Boolean",
          "logging" : "Boolean"
        } ]
      },
      "custom-column-data" : "String",
      "description" : "String",
      "sourceidentities" : {
        "sourceidentity" : [ "String" ],
        "totalSize" : "Integer"
      },
      "destination-zone" : {
        "zone" : [ {
          "id" : "Integer",
          "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
          "resolved" : "Boolean",
          "name" : "String",
          "variable-id" : "Integer",
          "default-value" : "String",
          "peer-ams" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "name" : "String",
      "source-zone" : {
        "zone" : [ {
          "id" : "Integer",
          "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
          "resolved" : "Boolean",
          "name" : "String",
          "variable-id" : "Integer",
          "default-value" : "String",
          "peer-ams" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "ssl-forward-proxy-profile" : {
        "id" : "Integer",
        "name" : "String"
      },
      "machine-identity" : {
        "uuid" : "String",
        "name" : "String"
      },
      "dynamic-application-profile" : {
```


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```
        "id" : "Integer",
        "name" : "String"
      },
      "url-category" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String",
          "text" : "String"
        } ]
      },
      "source-address" : {
        "exclude-list" : "Boolean",
        "addresses" : {
          "address-reference" : [ {
            "address_refs" : [ {
              "members" : [ ],
              "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
              "ipAddress" : "String",
              "hostName" : "String",
              "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
              "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
              "zone" : "String",
              "variableId" : "Integer",
              "hashKey" : "String",
              "addressBookName" : "String",
              "associatedMetadata" : "String",
              "parentAddressGroups" : {
                "serialVersionUID" : "long",
                "DEFAULT_CAPACITY" : "int",
                "EMPTY_ELEMENTDATA" : "[]",
                "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
                "elementData" : "[]",
                "size" : "int",
                "MAX_ARRAY_SIZE" : "int"
              }
            } ],
            "id" : "String",
            "uuid" : "String",
            "name" : "String",
            "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "variable-id" : "Integer"
          } ]
        }
      },
      "is-condition-used" : "Boolean",
      "srcMetadataExpression" : "String",
      "dstMetadataExpression" : "String"
    } ],
    "last-successfully-deployed-time" : "Date",
    "edit-version" : "Integer",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "fwPolicy-type" : [ "TRADITIONAL", "UNIFIED" ],
    "policy-state" : [ "DRAFT", "FINAL" ],
    "policy-order" : "Double",
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "policy-position" : [ "DEVICE", "PRE", "POST" ],
    "version" : "Integer",
    "policy-profile" : {
```


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```
    "id" : "Integer",
    "name" : "String"
   },
   "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
   "locked-for-edit" : "Boolean",
   "ips-policy" : {
    "id" : "Integer",
    "name" : "String",
    "ips-policy-type" : "String",
    "policy-state" : "String",
    "locked-for-edit" : "String",
    "MOID" : "String",
    "policy-order" : "String",
    "policy-position" : "String",
    "rule-count" : "Integer",
    "selected" : "String",
    "_resultId" : "String",
    "has-OOB-changes" : "String",
    "edit-version" : "String",
    "href" : "String",
    "device-count" : "Integer",
    "text" : "String",
    "dirty-rule-count" : "Integer",
    "disabled" : "String",
    "policy-type" : "String"
   }
  }
}
```


Sample JSON Output:


```
{
 "policy" : {
  "policy-details" : [ {
   "app-fw-policy" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
   },
   "atp-source-ip-to-feed" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
   },
   "atp-destination-ip-to-feed" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
   },
   "secure-web-proxy" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
   },
   "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
   "utm-policy" : {
    "id" : "Integer",
```


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```
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "ips-policy" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "rule-profile" : {
        "profile-type" : [ "CUSTOM", "USER_DEFINED", "INHERITED", "NONE" ],
        "user-defined-profile" : {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        },
        "custom-profile" : {
          "web-redirect" : "Boolean",
          "tcp-syn-check" : "Boolean",
          "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
          "per-second-alarm-threshold" : "Long",
          "per-minute-alarm-threshold" : "Long",
          "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
          "user-firewall-domain" : "String",
          "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
          "sd-template" : {
            "id" : "Integer",
            "name" : "String",
            "domain-id" : "Integer",
            "uri" : "String"
          },
          "redirect-url" : "String",
          "web-redirect-to-https" : "Boolean",
          "access-profile-name" : "String",
          "enable-count" : "Boolean",
          "log-at-session-close" : "Boolean",
          "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION",
"WEB_AUTHENTICATION", "USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
          "auth-only-browser" : "Boolean",
          "auth-user-agent" : "String",
          "service-offload" : "Boolean",
          "no-service-offload" : "Boolean",
          "tcp-seq-check" : "Boolean",
          "window-scale-check" : "Boolean",
          "initial-tcp-mss" : "Integer",
          "reverse-tcp-mss" : "Integer",
          "pass-thru-auth-client-name" : "String",
          "web-auth-client-name" : "String",
          "push-to-jims" : "Boolean",
          "log-at-session-init-time" : "Boolean",
          "uri" : "String"
        },
        "uri" : "String"
      },
      "rule-order" : "Integer",
      "ips-enabled" : "Boolean",
      "policy-id" : "Integer",
      "destination-address" : {
        "exclude-list" : "Boolean",
```


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```
        "addresses" : {
          "address-reference" : [ {
            "address_refs" : [ {
              "members" : [ ],
              "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
              "ipAddress" : "String",
              "hostName" : "String",
              "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
              "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
              "zone" : "String",
              "variableId" : "Integer",
              "hashKey" : "String",
              "addressBookName" : "String",
              "associatedMetadata" : "String",
              "parentAddressGroups" : {
                "serialVersionUID" : "long",
                "DEFAULT_CAPACITY" : "int",
                "EMPTY_ELEMENTDATA" : "[]",
                "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
                "elementData" : "[]",
                "size" : "int",
                "MAX_ARRAY_SIZE" : "int"
              }
            } ],
            "id" : "String",
            "uuid" : "String",
            "domain-id" : "Integer",
            "name" : "String",
            "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "variable-id" : "Integer",
            "uri" : "String"
          } ],
          "uri" : "String"
        },
        "uri" : "String"
      },
      "version" : "Integer",
      "last-modified-by-user-name" : "String",
      "rule-type" : [ "RULE", "RULEGROUP" ],
      "change-type" : [ "ADD", "DELETE", "MODIFY" ],
      "vpn-tunnel-refs" : {
        "id" : "Integer",
        "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
        "vpn-name" : "String",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "is-managed" : "Boolean",
        "uri" : "String"
      },
      "disabled" : "Boolean",
      "rulegroup-disabled" : "Boolean",
      "id" : "Integer",
      "hit-count-details" : {
        "id" : "String",
        "level" : [ "Zero", "High", "Medium", "Low" ],
        "status" : [ "NOT_APPLICABLE", "NOT_AVAILABLE", "AVAILABLE" ],
        "total-hit-count" : "Long",
        "hit-count" : "Long",
```


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```
      "name" : "String",
      "last-reset-time-stamp" : "Long",
      "hit-percent" : "Double",
      "last-hit-time-stamp" : "Long",
      "first-hit-time-stamp" : "Long",
      "uri" : "String"
    },
    "created-time" : "Date",
    "edit-version" : "Integer",
    "rule-group-id" : "Integer",
    "scheduler" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "services" : {
      "service-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean",
        "uri" : "String"
      } ],
      "service-details" : [ {
        "service_refs" : [ {
          "protocols" : [ {
            "name" : "String",
            "description" : "String",
            "alg" : "String",
            "srcPort" : "String",
            "dstPort" : "String",
            "disableTimeout" : "boolean",
            "inactivityTimeout" : "Integer",
            "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
            "rpcProgramNumber" : "String",
            "icmpCode" : "int",
            "icmpType" : "int",
            "sunrpcProtocolType" : [ "TCP", "UDP" ],
            "msrpcProtocolType" : [ "TCP", "UDP" ],
            "UUIDPattern" : {
              "UNIX_LINES" : "int",
              "CASE_INSENSITIVE" : "int",
              "COMMENTS" : "int",
              "MULTILINE" : "int",
              "LITERAL" : "int",
              "DOTALL" : "int",
              "UNICODE_CASE" : "int",
              "CANON_EQ" : "int",
              "UNICODE_CHARACTER_CLASS" : "int",
              "serialVersionUID" : "long",
              "pattern" : "String",
              "flags" : "int",
              "compiled" : "boolean",
              "normalizedPattern" : "String",
              "root" : {
                "next" : { }
              },
              "matchRoot" : {
                "next" : { }
              },
              "buffer" : "[]",
```


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```
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
```


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```
          },
          "lastAccept" : {
            "next" : { }
          },
          "$assertionsDisabled" : "boolean"
        },
        "protocolNumber" : "int",
        "uuid" : "String",
        "applicationName" : "String"
      } ],
      "displayName" : "String",
      "isGroup" : "Boolean",
      "applicationMembers" : [ ],
      "hashKey" : "String",
      "applicationBookName" : "String",
      "parentApplicationGroups" : {
        "serialVersionUID" : "long",
        "DEFAULT_CAPACITY" : "int",
        "EMPTY_ELEMENTDATA" : "[]",
        "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
        "elementData" : "[]",
        "size" : "int",
        "MAX_ARRAY_SIZE" : "int"
      }
    } ],
    "uuid" : "String",
    "display_name" : "String",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "description" : "String",
    "domain-id" : "Integer",
    "name" : "String",
    "is-group" : "Boolean",
    "uri" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"applications" : {
  "reference" : [ {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
  } ],
  "uri" : "String"
},
"action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
"threat-policy" : {
  "id" : "Integer",
  "name" : "String",
  "domain-id" : "Integer",
  "domain-name" : "String",
  "uri" : "String"
},
"condition-actions" : {
  "condition-action" : [ {
    "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
    "description" : "String",
    "ips-enabled" : "Boolean",
    "priority" : "int",
    "condition-status" : [ "INACTIVE", "ACTIVE" ],
    "condition" : { },
    "threat-policy" : { },
```


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```
          "scheduler" : { },
          "dynamic-application-profile" : { },
          "ssl-forward-proxy-profile" : { },
          "app-fw-policy" : { },
          "secure-web-proxy" : { },
          "utm-policy" : { },
          "ips-policy" : { },
          "vpn-tunnel-refs" : {
            "id" : "Integer",
            "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required",
"Deleted" ],
            "vpn-name" : "String",
            "name" : "String",
            "domain-id" : "Integer",
            "domain-name" : "String",
            "is-managed" : "Boolean",
            "uri" : "String"
          },
          "disabled" : "Boolean",
          "logging" : "Boolean",
          "uri" : "String",
          "link" : "String"
        } ],
        "uri" : "String"
      },
      "custom-column-data" : "String",
      "description" : "String",
      "sourceidentities" : {
        "sourceidentity" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "last-modified-time" : "Date",
      "created-by-user-name" : "String",
      "destination-zone" : {
        "zone" : [ {
          "id" : "Integer",
          "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
          "resolved" : "Boolean",
          "domain-id" : "Integer",
          "name" : "String",
          "domain-name" : "String",
          "variable-id" : "Integer",
          "default-value" : "String",
          "uri" : "String",
          "peer-ams" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "name" : "String",
      "source-zone" : {
        "zone" : [ {
          "id" : "Integer",
          "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
          "resolved" : "Boolean",
          "domain-id" : "Integer",
          "name" : "String",
          "domain-name" : "String",
          "variable-id" : "Integer",
          "default-value" : "String",
          "uri" : "String",
          "peer-ams" : "String"
        } ],
```


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```
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "ssl-forward-proxy-profile" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "machine-identity" : {
      "uuid" : "String",
      "name" : "String",
      "domain-id" : "Integer",
      "uri" : "String"
    },
    "dynamic-application-profile" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "uri" : "String"
    },
    "url-category" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "text" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "source-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
```


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```
            "name" : "String",
            "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "variable-id" : "Integer",
            "uri" : "String"
          } ],
          "uri" : "String"
        },
        "uri" : "String"
      },
      "is-condition-used" : "Boolean",
      "uri" : "String",
      "srcMetadataExpression" : "String",
      "dstMetadataExpression" : "String"
    } ],
    "last-successfully-deployed-time" : "Date",
    "last-modified-time" : "Date",
    "edit-version" : "Integer",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "fwPolicy-type" : [ "TRADITIONAL", "UNIFIED" ],
    "policy-state" : [ "DRAFT", "FINAL" ],
    "policy-order" : "Double",
    "created-time" : "Date",
    "name" : "String",
    "domain-id" : "Integer",
    "description" : "String",
    "id" : "Integer",
    "created-by-user-name" : "String",
    "policy-position" : [ "DEVICE", "PRE", "POST" ],
    "version" : "Integer",
    "uri" : "String",
    "policy-profile" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "last-modified-by-user-name" : "String",
    "locked-for-edit" : "Boolean",
    "ips-policy" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "uri" : "String",
      "ips-policy-type" : "String",
      "policy-state" : "String",
      "last-modified-by-user-name" : "String",
      "last-modified-time" : "String",
      "created-by-user-name" : "String",
      "created-time" : "String",
      "locked-for-edit" : "String",
      "MOID" : "String",
      "policy-order" : "String",
      "policy-position" : "String",
      "rule-count" : "Integer",
      "selected" : "String",
      "_resultId" : "String",
      "has-OOB-changes" : "String",
      "edit-version" : "String",
      "href" : "String",
```


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```
    "device-count" : "Integer",
    "text" : "String",
    "dirty-rule-count" : "Integer",
    "disabled" : "String",
    "policy-type" : "String"
   }
  }
}
```

Delete Firewall Policy

This request is used to delete an existing firewall policy. If the API require to have the X-CSRF value twice, the X-CSRF value from the login API result can be used twice to meet the requirements.

URI	/api/juniper/sd/policy-management/firewall/policies/delete
HTTP method	POST
Content-Type	application/vnd.juniper.sd.bulk-delete+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.bulk-delete+json;version=2;charset=UTF-8
Accept-Type	None
Access-Control	DeletePolicy

Sample JSON Input

```
{
  "id-list" : {
    "ids" : [ "Integer" ]
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
</id-list>
```


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Get Firewall Rules For a Rule Group

This request is used to get details of all the rules under a rule group, for a given policy ID.

URI	/api/juniper/sd/policy-management/firewall/policies/{policy-id}/rules/{rule-group-id}/rules
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.firewall.rules+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.firewall.rules+json;version=2;q=0.02
Access-Control	managePolicies

Sample JSON Output:


```
{
  "rules" : {
    "rule" : [ {
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "last-modified-by-user-name" : "String",
      "description" : "String",
      "edit-version" : "Integer",
      "disabled" : "Boolean",
      "created-time" : "Date",
      "rule-group-id" : "Integer",
      "rule-type" : [ "RULE", "RULEGROUP" ],
      "policy-id" : "Integer",
      "rule-order" : "Integer",
      "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
      "id" : "Integer",
      "name" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<rules>
  <rule>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <description>String</description>
    <edit-version>Integer</edit-version>
    <disabled>Boolean</disabled>
    <created-time>Date</created-time>
    <rule-group-id>Integer</rule-group-id>
    <rule-type>RULE</rule-type>
    <rule-type>RULEGROUP</rule-type>
    <policy-id>Integer</policy-id>
    <rule-order>Integer</rule-order>
    <rule-group-type>CUSTOM</rule-group-type>
    <rule-group-type>ZONE</rule-group-type>
    <rule-group-type>GLOBAL</rule-group-type>
    <id>Integer</id>
    <name>String</name>
    <uri>String</uri>
  </rule>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</rules>
```

Delete Firewall Rule

This request is used to delete an existing rule by its policy ID.

URI	/api/juniper/sd/policy-management/firewall/policies/{policy-id}/rules/{rule-id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	ModifyPolicy

Modify Firewall Rule

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This request is used to modify an existing rule.

URI	/api/juniper/sd/policy-management/firewall/policies/{policy-id}/rules/{rule-id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.policy-management.firewall.rule+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.policy-management.firewall.rule+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.policy-management.firewall.rule+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.firewall.rule+json;version=2;q=0.02
Access-Control	ModifyPolicy

Sample JSON Input

```
{
  "rule" : {
    "app-fw-policy" : {
      "id" : "Integer",
      "name" : "String"
    },
    "atp-source-ip-to-feed" : {
      "id" : "Integer",
      "name" : "String"
    },
    "atp-destination-ip-to-feed" : {
      "id" : "Integer",
      "name" : "String"
    },
    "secure-web-proxy" : {
      "id" : "Integer",
      "name" : "String"
    },
    "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
    "utm-policy" : {
      "id" : "Integer",
      "name" : "String"
    },
    "ips-policy" : {
      "id" : "Integer",
      "name" : "String"
    },
    "rule-profile" : {
      "profile-type" : [ "CUSTOM", "USER_DEFINED", "INHERITED", "NONE" ],
      "user-defined-profile" : {
        "id" : "Integer",
```


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```
        "name" : "String"
       },
       "custom-profile" : {
        "web-redirect" : "Boolean",
        "tcp-syn-check" : "Boolean",
        "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
        "per-second-alarm-threshold" : "Long",
        "per-minute-alarm-threshold" : "Long",
        "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
        "user-firewall-domain" : "String",
        "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
        "sd-template" : {
         "id" : "Integer",
         "name" : "String"
        },
        "redirect-url" : "String",
        "web-redirect-to-https" : "Boolean",
        "access-profile-name" : "String",
        "enable-count" : "Boolean",
        "log-at-session-close" : "Boolean",
        "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION",
"WEB_AUTHENTICATION", "USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
        "auth-only-browser" : "Boolean",
        "auth-user-agent" : "String",
        "service-offload" : "Boolean",
        "no-service-offload" : "Boolean",
        "tcp-seq-check" : "Boolean",
        "window-scale-check" : "Boolean",
        "initial-tcp-mss" : "Integer",
        "reverse-tcp-mss" : "Integer",
        "pass-thru-auth-client-name" : "String",
        "web-auth-client-name" : "String",
        "push-to-jims" : "Boolean",
        "log-at-session-init-time" : "Boolean"
       }
      },
      "rule-order" : "Integer",
      "ips-enabled" : "Boolean",
      "policy-id" : "Integer",
      "destination-address" : {
       "exclude-list" : "Boolean",
       "addresses" : {
        "address-reference" : [ {
         "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
           "serialVersionUID" : "long",
           "DEFAULT_CAPACITY" : "int",
           "EMPTY_ELEMENTDATA" : "[]",
           "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
           "elementData" : "[]",
```


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```
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "id" : "String",
        "uuid" : "String",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer"
      } ]
    }
  },
  "version" : "Integer",
  "rule-type" : [ "RULE", "RULEGROUP" ],
  "change-type" : [ "ADD", "DELETE", "MODIFY" ],
  "vpn-tunnel-refs" : {
    "id" : "Integer",
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
    "vpn-name" : "String",
    "name" : "String",
    "is-managed" : "Boolean"
  },
  "disabled" : "Boolean",
  "rulegroup-disabled" : "Boolean",
  "id" : "Integer",
  "hit-count-details" : {
    "id" : "String",
    "level" : [ "Zero", "High", "Medium", "Low" ],
    "status" : [ "NOT_APPLICABLE", "NOT_AVAILABLE", "AVAILABLE" ],
    "total-hit-count" : "Long",
    "hit-count" : "Long",
    "name" : "String",
    "last-reset-time-stamp" : "Long",
    "hit-percent" : "Double",
    "last-hit-time-stamp" : "Long",
    "first-hit-time-stamp" : "Long"
  },
  "edit-version" : "Integer",
  "rule-group-id" : "Integer",
  "scheduler" : {
    "id" : "Integer",
    "name" : "String"
  },
  "services" : {
    "service-reference" : [ {
      "id" : "Integer",
      "name" : "String",
      "is-group" : "Boolean"
    } ],
    "service-details" : [ {
      "service_refs" : [ {
        "protocols" : [ {
          "name" : "String",
          "description" : "String",
          "alg" : "String",
          "srcPort" : "String",
          "dstPort" : "String",
          "disableTimeout" : "boolean",
          "inactivityTimeout" : "Integer",
          "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
```


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```
"rpcProgramNumber" : "String",
"icmpCode" : "int",
"icmpType" : "int",
"sunrpcProtocolType" : [ "TCP", "UDP" ],
"msrpcProtocolType" : [ "TCP", "UDP" ],
"UUIDPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
```


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```
          "compiled" : "boolean",
          "normalizedPattern" : "String",
          "root" : {
            "next" : { }
          },
          "matchRoot" : {
            "next" : { }
          },
          "buffer" : "[]",
          "namedGroups" : { },
          "groupNodes" : "[]",
          "temp" : "[]",
          "capturingGroupCount" : "int",
          "localCount" : "int",
          "cursor" : "int",
          "patternLength" : "int",
          "hasSupplementary" : "boolean",
          "MAX_REPS" : "int",
          "GREEDY" : "int",
          "LAZY" : "int",
          "POSSESSIVE" : "int",
          "INDEPENDENT" : "int",
          "lookbehindEnd" : {
            "next" : { }
          },
          "accept" : {
            "next" : { }
          },
          "lastAccept" : {
            "next" : { }
          },
          "$assertionsDisabled" : "boolean"
        },
        "protocolNumber" : "int",
        "uuid" : "String",
        "applicationName" : "String"
      } ],
      "displayName" : "String",
      "isGroup" : "Boolean",
      "applicationMembers" : [ ],
      "hashKey" : "String",
      "applicationBookName" : "String",
      "parentApplicationGroups" : {
        "serialVersionUID" : "long",
        "DEFAULT_CAPACITY" : "int",
        "EMPTY_ELEMENTDATA" : "[]",
        "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
        "elementData" : "[]",
        "size" : "int",
        "MAX_ARRAY_SIZE" : "int"
      }
    } ],
    "uuid" : "String",
    "display_name" : "String",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "description" : "String",
    "name" : "String",
    "is-group" : "Boolean"
  } ],
  "totalSize" : "Integer"
},
"applications" : {
  "reference" : [ {
    "id" : "Integer",
```


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```
      "name" : "String"
    } ]
  },
  "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
  "threat-policy" : {
    "id" : "Integer",
    "name" : "String"
  },
  "condition-actions" : {
    "condition-action" : [ {
      "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
      "description" : "String",
      "ips-enabled" : "Boolean",
      "priority" : "int",
      "condition-status" : [ "INACTIVE", "ACTIVE" ],
      "condition" : { },
      "threat-policy" : { },
      "scheduler" : { },
      "dynamic-application-profile" : { },
      "ssl-forward-proxy-profile" : { },
      "app-fw-policy" : { },
      "secure-web-proxy" : { },
      "utm-policy" : { },
      "ips-policy" : { },
      "vpn-tunnel-refs" : {
        "id" : "Integer",
        "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required",
"Deleted" ],
        "vpn-name" : "String",
        "name" : "String",
        "is-managed" : "Boolean"
      },
      "disabled" : "Boolean",
      "logging" : "Boolean"
    } ]
  },
  "custom-column-data" : "String",
  "description" : "String",
  "sourceidentities" : {
    "sourceidentity" : [ "String" ],
    "totalSize" : "Integer"
  },
  "destination-zone" : {
    "zone" : [ {
      "id" : "Integer",
      "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
      "resolved" : "Boolean",
      "name" : "String",
      "variable-id" : "Integer",
      "default-value" : "String",
      "peer-ams" : "String"
    } ],
    "totalSize" : "Integer"
  },
  "name" : "String",
  "source-zone" : {
    "zone" : [ {
      "id" : "Integer",
      "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
      "resolved" : "Boolean",
      "name" : "String",
      "variable-id" : "Integer",
      "default-value" : "String",
      "peer-ams" : "String"
```


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```
      } ],
      "totalSize" : "Integer"
    },
    "ssl-forward-proxy-profile" : {
      "id" : "Integer",
      "name" : "String"
    },
    "machine-identity" : {
      "uuid" : "String",
      "name" : "String"
    },
    "dynamic-application-profile" : {
      "id" : "Integer",
      "name" : "String"
    },
    "url-category" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "text" : "String"
      } ]
    },
    "source-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
        } ]
      }
    },
    "is-condition-used" : "Boolean",
    "srcMetadataExpression" : "String",
    "dstMetadataExpression" : "String"
  }
```


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}

Sample JSON Output:


```
{
  "rule" : {
    "app-fw-policy" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "atp-source-ip-to-feed" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "atp-destination-ip-to-feed" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "secure-web-proxy" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
    "utm-policy" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "ips-policy" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "rule-profile" : {
      "profile-type" : [ "CUSTOM", "USER_DEFINED", "INHERITED", "NONE" ],
      "user-defined-profile" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      },
```


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```
      "custom-profile" : {
        "web-redirect" : "Boolean",
        "tcp-syn-check" : "Boolean",
        "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
        "per-second-alarm-threshold" : "Long",
        "per-minute-alarm-threshold" : "Long",
        "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
        "user-firewall-domain" : "String",
        "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
        "sd-template" : {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        },
        "redirect-url" : "String",
        "web-redirect-to-https" : "Boolean",
        "access-profile-name" : "String",
        "enable-count" : "Boolean",
        "log-at-session-close" : "Boolean",
        "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION",
"WEB_AUTHENTICATION", "USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
        "auth-only-browser" : "Boolean",
        "auth-user-agent" : "String",
        "service-offload" : "Boolean",
        "no-service-offload" : "Boolean",
        "tcp-seq-check" : "Boolean",
        "window-scale-check" : "Boolean",
        "initial-tcp-mss" : "Integer",
        "reverse-tcp-mss" : "Integer",
        "pass-thru-auth-client-name" : "String",
        "web-auth-client-name" : "String",
        "push-to-jims" : "Boolean",
        "log-at-session-init-time" : "Boolean",
        "uri" : "String"
      },
      "uri" : "String"
    },
    "rule-order" : "Integer",
    "ips-enabled" : "Boolean",
    "policy-id" : "Integer",
    "destination-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
```


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```
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "id" : "String",
        "uuid" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "uri" : "String"
  },
  "version" : "Integer",
  "last-modified-by-user-name" : "String",
  "rule-type" : [ "RULE", "RULEGROUP" ],
  "change-type" : [ "ADD", "DELETE", "MODIFY" ],
  "vpn-tunnel-refs" : {
    "id" : "Integer",
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
    "vpn-name" : "String",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "is-managed" : "Boolean",
    "uri" : "String"
  },
  "disabled" : "Boolean",
  "rulegroup-disabled" : "Boolean",
  "id" : "Integer",
  "hit-count-details" : {
    "id" : "String",
    "level" : [ "Zero", "High", "Medium", "Low" ],
    "status" : [ "NOT_APPLICABLE", "NOT_AVAILABLE", "AVAILABLE" ],
    "total-hit-count" : "Long",
    "hit-count" : "Long",
    "name" : "String",
    "last-reset-time-stamp" : "Long",
    "hit-percent" : "Double",
    "last-hit-time-stamp" : "Long",
    "first-hit-time-stamp" : "Long",
    "uri" : "String"
  },
  "created-time" : "Date",
  "edit-version" : "Integer",
  "rule-group-id" : "Integer",
  "scheduler" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
  },
  "services" : {
    "service-reference" : [ {
      "id" : "Integer",
```


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```
        "domain-id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean",
        "uri" : "String"
       } ],
       "service-details" : [ {
        "service_refs" : [ {
         "protocols" : [ {
          "name" : "String",
          "description" : "String",
          "alg" : "String",
          "srcPort" : "String",
          "dstPort" : "String",
          "disableTimeout" : "boolean",
          "inactivityTimeout" : "Integer",
          "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
          "rpcProgramNumber" : "String",
          "icmpCode" : "int",
          "icmpType" : "int",
          "sunrpcProtocolType" : [ "TCP", "UDP" ],
          "msrpcProtocolType" : [ "TCP", "UDP" ],
          "UUIDPattern" : {
           "UNIX_LINES" : "int",
           "CASE_INSENSITIVE" : "int",
           "COMMENTS" : "int",
           "MULTILINE" : "int",
           "LITERAL" : "int",
           "DOTALL" : "int",
           "UNICODE_CASE" : "int",
           "CANON_EQ" : "int",
           "UNICODE_CHARACTER_CLASS" : "int",
           "serialVersionUID" : "long",
           "pattern" : "String",
           "flags" : "int",
           "compiled" : "boolean",
           "normalizedPattern" : "String",
           "root" : {
            "next" : { }
           },
           "matchRoot" : {
            "next" : { }
           },
           "buffer" : "[]",
           "namedGroups" : { },
           "groupNodes" : "[]",
           "temp" : "[]",
           "capturingGroupCount" : "int",
           "localCount" : "int",
           "cursor" : "int",
           "patternLength" : "int",
           "hasSupplementary" : "boolean",
           "MAX_REPS" : "int",
           "GREEDY" : "int",
           "LAZY" : "int",
           "POSSESSIVE" : "int",
           "INDEPENDENT" : "int",
           "lookbehindEnd" : {
            "next" : { }
           },
           "accept" : {
            "next" : { }
           },
           "lastAccept" : {
```


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```
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "numericPattern" : {
    "UNIX_LINES" : "int",
    "CASE_INSENSITIVE" : "int",
    "COMMENTS" : "int",
    "MULTILINE" : "int",
    "LITERAL" : "int",
    "DOTALL" : "int",
    "UNICODE_CASE" : "int",
    "CANON_EQ" : "int",
    "UNICODE_CHARACTER_CLASS" : "int",
    "serialVersionUID" : "long",
    "pattern" : "String",
    "flags" : "int",
    "compiled" : "boolean",
    "normalizedPattern" : "String",
    "root" : {
      "next" : { }
    },
    "matchRoot" : {
      "next" : { }
    },
    "buffer" : "[]",
    "namedGroups" : { },
    "groupNodes" : "[]",
    "temp" : "[]",
    "capturingGroupCount" : "int",
    "localCount" : "int",
    "cursor" : "int",
    "patternLength" : "int",
    "hasSupplementary" : "boolean",
    "MAX_REPS" : "int",
    "GREEDY" : "int",
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String",
  "applicationName" : "String"
} ],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String",
"applicationBookName" : "String",
"parentApplicationGroups" : {
  "serialVersionUID" : "long",
  "DEFAULT_CAPACITY" : "int",
  "EMPTY_ELEMENTDATA" : "[]",
  "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
```


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```
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "uuid" : "String",
        "display_name" : "String",
        "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "description" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "applications" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
    "threat-policy" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "condition-actions" : {
      "condition-action" : [ {
        "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
        "description" : "String",
        "ips-enabled" : "Boolean",
        "priority" : "int",
        "condition-status" : [ "INACTIVE", "ACTIVE" ],
        "condition" : { },
        "threat-policy" : { },
        "scheduler" : { },
        "dynamic-application-profile" : { },
        "ssl-forward-proxy-profile" : { },
        "app-fw-policy" : { },
        "secure-web-proxy" : { },
        "utm-policy" : { },
        "ips-policy" : { },
        "vpn-tunnel-refs" : {
          "id" : "Integer",
          "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required",
"Deleted" ],
          "vpn-name" : "String",
          "name" : "String",
          "domain-id" : "Integer",
          "domain-name" : "String",
          "is-managed" : "Boolean",
          "uri" : "String"
        },
        "disabled" : "Boolean",
        "logging" : "Boolean",
```


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```
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String"
},
"custom-column-data" : "String",
"description" : "String",
"sourceidentities" : {
  "sourceidentity" : [ "String" ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"last-modified-time" : "Date",
"created-by-user-name" : "String",
"destination-zone" : {
  "zone" : [ {
    "id" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
    "resolved" : "Boolean",
    "domain-id" : "Integer",
    "name" : "String",
    "domain-name" : "String",
    "variable-id" : "Integer",
    "default-value" : "String",
    "uri" : "String",
    "peer-ams" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"name" : "String",
"source-zone" : {
  "zone" : [ {
    "id" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
    "resolved" : "Boolean",
    "domain-id" : "Integer",
    "name" : "String",
    "domain-name" : "String",
    "variable-id" : "Integer",
    "default-value" : "String",
    "uri" : "String",
    "peer-ams" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"ssl-forward-proxy-profile" : {
  "id" : "Integer",
  "name" : "String",
  "domain-id" : "Integer",
  "domain-name" : "String",
  "uri" : "String"
},
"machine-identity" : {
  "uuid" : "String",
  "name" : "String",
  "domain-id" : "Integer",
  "uri" : "String"
},
"dynamic-application-profile" : {
  "id" : "Integer",
  "name" : "String",
  "domain-id" : "Integer",
```


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```
      "uri" : "String"
    },
    "url-category" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "text" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "source-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "uri" : "String"
    },
    "is-condition-used" : "Boolean",
    "uri" : "String",
    "srcMetadataExpression" : "String",
    "dstMetadataExpression" : "String"
  }
}
```


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Get Firewall Rule By ID

This request is used to get the rule details by its ID.

URI	/api/juniper/sd/policy-management/firewall/policies/{policy-id}/rules/{rule-id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.firewall.rule+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.firewall.rule+json;version=2;q=0.02
Access-Control	managePolicies

Sample JSON Output:


```
{
  "rule" : {
    "app-fw-policy" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "atp-source-ip-to-feed" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "atp-destination-ip-to-feed" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "secure-web-proxy" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
```


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```
  },
  "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
  "utm-policy" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
  },
  "ips-policy" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
  },
  "rule-profile" : {
    "profile-type" : [ "CUSTOM", "USER_DEFINED", "INHERITED", "NONE" ],
    "user-defined-profile" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "uri" : "String"
    },
    "custom-profile" : {
      "web-redirect" : "Boolean",
      "tcp-syn-check" : "Boolean",
      "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
      "per-second-alarm-threshold" : "Long",
      "per-minute-alarm-threshold" : "Long",
      "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
      "user-firewall-domain" : "String",
      "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
      "sd-template" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      },
      "redirect-url" : "String",
      "web-redirect-to-https" : "Boolean",
      "access-profile-name" : "String",
      "enable-count" : "Boolean",
      "log-at-session-close" : "Boolean",
      "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION",
"WEB_AUTHENTICATION", "USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
      "auth-only-browser" : "Boolean",
      "auth-user-agent" : "String",
      "service-offload" : "Boolean",
      "no-service-offload" : "Boolean",
      "tcp-seq-check" : "Boolean",
      "window-scale-check" : "Boolean",
      "initial-tcp-mss" : "Integer",
      "reverse-tcp-mss" : "Integer",
      "pass-thru-auth-client-name" : "String",
      "web-auth-client-name" : "String",
      "push-to-jims" : "Boolean",
      "log-at-session-init-time" : "Boolean",
      "uri" : "String"
    },
    "uri" : "String"
  },
  "rule-order" : "Integer",
```


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```
    "ips-enabled" : "Boolean",
    "policy-id" : "Integer",
    "destination-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "uri" : "String"
    },
    "version" : "Integer",
    "last-modified-by-user-name" : "String",
    "rule-type" : [ "RULE", "RULEGROUP" ],
    "change-type" : [ "ADD", "DELETE", "MODIFY" ],
    "vpn-tunnel-refs" : {
      "id" : "Integer",
      "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
      "vpn-name" : "String",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "is-managed" : "Boolean",
      "uri" : "String"
    },
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "id" : "Integer",
    "hit-count-details" : {
      "id" : "String",
```


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```
    "level" : [ "Zero", "High", "Medium", "Low" ],
    "status" : [ "NOT_APPLICABLE", "NOT_AVAILABLE", "AVAILABLE" ],
    "total-hit-count" : "Long",
    "hit-count" : "Long",
    "name" : "String",
    "last-reset-time-stamp" : "Long",
    "hit-percent" : "Double",
    "last-hit-time-stamp" : "Long",
    "first-hit-time-stamp" : "Long",
    "uri" : "String"
   },
   "created-time" : "Date",
   "edit-version" : "Integer",
   "rule-group-id" : "Integer",
   "scheduler" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
   },
   "services" : {
    "service-reference" : [ {
     "id" : "Integer",
     "domain-id" : "Integer",
     "name" : "String",
     "is-group" : "Boolean",
     "uri" : "String"
    } ],
    "service-details" : [ {
     "service_refs" : [ {
      "protocols" : [ {
       "name" : "String",
       "description" : "String",
       "alg" : "String",
       "srcPort" : "String",
       "dstPort" : "String",
       "disableTimeout" : "boolean",
       "inactivityTimeout" : "Integer",
       "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
       "rpcProgramNumber" : "String",
       "icmpCode" : "int",
       "icmpType" : "int",
       "sunrpcProtocolType" : [ "TCP", "UDP" ],
       "msrpcProtocolType" : [ "TCP", "UDP" ],
       "UUIDPattern" : {
        "UNIX_LINES" : "int",
        "CASE_INSENSITIVE" : "int",
        "COMMENTS" : "int",
        "MULTILINE" : "int",
        "LITERAL" : "int",
        "DOTALL" : "int",
        "UNICODE_CASE" : "int",
        "CANON_EQ" : "int",
        "UNICODE_CHARACTER_CLASS" : "int",
        "serialVersionUID" : "long",
        "pattern" : "String",
        "flags" : "int",
        "compiled" : "boolean",
        "normalizedPattern" : "String",
        "root" : {
         "next" : { }
        },
```


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```
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
```


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```
            "next" : { }
          },
          "accept" : {
            "next" : { }
          },
          "lastAccept" : {
            "next" : { }
          },
          "$assertionsDisabled" : "boolean"
        },
        "protocolNumber" : "int",
        "uuid" : "String",
        "applicationName" : "String"
      } ],
      "displayName" : "String",
      "isGroup" : "Boolean",
      "applicationMembers" : [ ],
      "hashKey" : "String",
      "applicationBookName" : "String",
      "parentApplicationGroups" : {
        "serialVersionUID" : "long",
        "DEFAULT_CAPACITY" : "int",
        "EMPTY_ELEMENTDATA" : "[]",
        "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
        "elementData" : "[]",
        "size" : "int",
        "MAX_ARRAY_SIZE" : "int"
      }
    } ],
    "uuid" : "String",
    "display_name" : "String",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "description" : "String",
    "domain-id" : "Integer",
    "name" : "String",
    "is-group" : "Boolean",
    "uri" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"applications" : {
  "reference" : [ {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
  } ],
  "uri" : "String"
},
"action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
"threat-policy" : {
  "id" : "Integer",
  "name" : "String",
  "domain-id" : "Integer",
  "domain-name" : "String",
  "uri" : "String"
},
"condition-actions" : {
  "condition-action" : [ {
    "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
    "description" : "String",
    "ips-enabled" : "Boolean",
```


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```
        "priority" : "int",
        "condition-status" : [ "INACTIVE", "ACTIVE" ],
        "condition" : { },
        "threat-policy" : { },
        "scheduler" : { },
        "dynamic-application-profile" : { },
        "ssl-forward-proxy-profile" : { },
        "app-fw-policy" : { },
        "secure-web-proxy" : { },
        "utm-policy" : { },
        "ips-policy" : { },
        "vpn-tunnel-refs" : {
          "id" : "Integer",
          "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required",
"Deleted" ],
          "vpn-name" : "String",
          "name" : "String",
          "domain-id" : "Integer",
          "domain-name" : "String",
          "is-managed" : "Boolean",
          "uri" : "String"
        },
        "disabled" : "Boolean",
        "logging" : "Boolean",
        "uri" : "String",
        "link" : "String"
      } ],
      "uri" : "String"
    },
    "custom-column-data" : "String",
    "description" : "String",
    "sourceidentities" : {
      "sourceidentity" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "last-modified-time" : "Date",
    "created-by-user-name" : "String",
    "destination-zone" : {
      "zone" : [ {
        "id" : "Integer",
        "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
        "resolved" : "Boolean",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "variable-id" : "Integer",
        "default-value" : "String",
        "uri" : "String",
        "peer-ams" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "name" : "String",
    "source-zone" : {
      "zone" : [ {
        "id" : "Integer",
        "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
        "resolved" : "Boolean",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "variable-id" : "Integer",
```


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```
        "default-value" : "String",
        "uri" : "String",
        "peer-ams" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "ssl-forward-proxy-profile" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "machine-identity" : {
      "uuid" : "String",
      "name" : "String",
      "domain-id" : "Integer",
      "uri" : "String"
    },
    "dynamic-application-profile" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "uri" : "String"
    },
    "url-category" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "text" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "source-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
```


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```
        } ],
        "id" : "String",
        "uuid" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "uri" : "String"
  },
  "is-condition-used" : "Boolean",
  "uri" : "String",
  "srcMetadataExpression" : "String",
  "dstMetadataExpression" : "String"
 }
}
```


Get Firewall Rules for Policy

This request is used to get details of all the rules associated to a policy.

URI	/api/juniper/sd/policy-management/firewall/policies/{policy-id}/rules
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.firewall.rules+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.firewall.rules+json;version=2;q=0.02
Access-Control	managePolicies

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Sample JSON Output:


```
{
  "rules" : {
    "rule" : [ {
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "last-modified-by-user-name" : "String",
      "description" : "String",
      "edit-version" : "Integer",
      "disabled" : "Boolean",
      "created-time" : "Date",
      "rule-group-id" : "Integer",
      "rule-type" : [ "RULE", "RULEGROUP" ],
      "policy-id" : "Integer",
      "rule-order" : "Integer",
      "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
      "id" : "Integer",
      "name" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<rules>
  <rule>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <description>String</description>
    <edit-version>Integer</edit-version>
    <disabled>Boolean</disabled>
    <created-time>Date</created-time>
    <rule-group-id>Integer</rule-group-id>
    <rule-type>RULE</rule-type>
    <rule-type>RULEGROUP</rule-type>
    <policy-id>Integer</policy-id>
    <rule-order>Integer</rule-order>
    <rule-group-type>CUSTOM</rule-group-type>
    <rule-group-type>ZONE</rule-group-type>
    <rule-group-type>GLOBAL</rule-group-type>
    <id>Integer</id>
    <name>String</name>
    <uri>String</uri>
  </rule>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</rules>
```


Add a New Rule to Firewall Policy

This request is used to add a new rule to an existing rule group or add a new rule group.

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URI	/api/juniper/sd/policy-management/firewall/policies/{policy-id}/rules
HTTP method	POST
Content-Type	application/vnd.juniper.sd.policy-management.firewall.rule+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.policy-management.firewall.rule+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.policy-management.firewall.rule+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.firewall.rule+json;version=2;q=0.02
Access-Control	ModifyPolicy

Sample JSON Input

```
{
  "rule" : {
    "app-fw-policy" : {
      "id" : "Integer",
      "name" : "String"
    },
    "atp-source-ip-to-feed" : {
      "id" : "Integer",
      "name" : "String"
    },
    "atp-destination-ip-to-feed" : {
      "id" : "Integer",
      "name" : "String"
    },
    "secure-web-proxy" : {
      "id" : "Integer",
      "name" : "String"
    },
    "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
    "utm-policy" : {
      "id" : "Integer",
      "name" : "String"
    },
    "ips-policy" : {
      "id" : "Integer",
      "name" : "String"
    },
    "rule-profile" : {
      "profile-type" : [ "CUSTOM", "USER_DEFINED", "INHERITED", "NONE" ],
      "user-defined-profile" : {
        "id" : "Integer",
        "name" : "String"
      },
      "custom-profile" : {
        "web-redirect" : "Boolean",
```


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```
        "tcp-syn-check" : "Boolean",
        "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
        "per-second-alarm-threshold" : "Long",
        "per-minute-alarm-threshold" : "Long",
        "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
        "user-firewall-domain" : "String",
        "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
        "sd-template" : {
          "id" : "Integer",
          "name" : "String"
        },
        "redirect-url" : "String",
        "web-redirect-to-https" : "Boolean",
        "access-profile-name" : "String",
        "enable-count" : "Boolean",
        "log-at-session-close" : "Boolean",
        "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION",
"WEB_AUTHENTICATION", "USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
        "auth-only-browser" : "Boolean",
        "auth-user-agent" : "String",
        "service-offload" : "Boolean",
        "no-service-offload" : "Boolean",
        "tcp-seq-check" : "Boolean",
        "window-scale-check" : "Boolean",
        "initial-tcp-mss" : "Integer",
        "reverse-tcp-mss" : "Integer",
        "pass-thru-auth-client-name" : "String",
        "web-auth-client-name" : "String",
        "push-to-jims" : "Boolean",
        "log-at-session-init-time" : "Boolean"
      }
    },
    "rule-order" : "Integer",
    "ips-enabled" : "Boolean",
    "policy-id" : "Integer",
    "destination-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
```


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```
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
        } ]
      }
    },
    "version" : "Integer",
    "rule-type" : [ "RULE", "RULEGROUP" ],
    "change-type" : [ "ADD", "DELETE", "MODIFY" ],
    "vpn-tunnel-refs" : {
      "id" : "Integer",
      "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
      "vpn-name" : "String",
      "name" : "String",
      "is-managed" : "Boolean"
    },
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "id" : "Integer",
    "hit-count-details" : {
      "id" : "String",
      "level" : [ "Zero", "High", "Medium", "Low" ],
      "status" : [ "NOT_APPLICABLE", "NOT_AVAILABLE", "AVAILABLE" ],
      "total-hit-count" : "Long",
      "hit-count" : "Long",
      "name" : "String",
      "last-reset-time-stamp" : "Long",
      "hit-percent" : "Double",
      "last-hit-time-stamp" : "Long",
      "first-hit-time-stamp" : "Long"
    },
    "edit-version" : "Integer",
    "rule-group-id" : "Integer",
    "scheduler" : {
      "id" : "Integer",
      "name" : "String"
    },
    "services" : {
      "service-reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean"
      } ],
      "service-details" : [ {
        "service_refs" : [ {
          "protocols" : [ {
            "name" : "String",
            "description" : "String",
            "alg" : "String",
            "srcPort" : "String",
            "dstPort" : "String",
            "disableTimeout" : "boolean",
            "inactivityTimeout" : "Integer",
            "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
            "rpcProgramNumber" : "String",
            "icmpCode" : "int",
            "icmpType" : "int",
            "sunrpcProtocolType" : [ "TCP", "UDP" ],
```


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```
"msrpcProtocolType" : [ "TCP", "UDP" ],
"UUIDPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
```


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```
          },
          "matchRoot" : {
            "next" : { }
          },
          "buffer" : "[]",
          "namedGroups" : { },
          "groupNodes" : "[]",
          "temp" : "[]",
          "capturingGroupCount" : "int",
          "localCount" : "int",
          "cursor" : "int",
          "patternLength" : "int",
          "hasSupplementary" : "boolean",
          "MAX_REPS" : "int",
          "GREEDY" : "int",
          "LAZY" : "int",
          "POSSESSIVE" : "int",
          "INDEPENDENT" : "int",
          "lookbehindEnd" : {
            "next" : { }
          },
          "accept" : {
            "next" : { }
          },
          "lastAccept" : {
            "next" : { }
          },
          "$assertionsDisabled" : "boolean"
        },
        "protocolNumber" : "int",
        "uuid" : "String",
        "applicationName" : "String"
      } ],
      "displayName" : "String",
      "isGroup" : "Boolean",
      "applicationMembers" : [ ],
      "hashKey" : "String",
      "applicationBookName" : "String",
      "parentApplicationGroups" : {
        "serialVersionUID" : "long",
        "DEFAULT_CAPACITY" : "int",
        "EMPTY_ELEMENTDATA" : "[]",
        "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
        "elementData" : "[]",
        "size" : "int",
        "MAX_ARRAY_SIZE" : "int"
      }
    } ],
    "uuid" : "String",
    "display_name" : "String",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "description" : "String",
    "name" : "String",
    "is-group" : "Boolean"
  } ],
  "totalSize" : "Integer"
},
"applications" : {
  "reference" : [ {
    "id" : "Integer",
    "name" : "String"
  } ]
},
"action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
```


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```
    "threat-policy" : {
      "id" : "Integer",
      "name" : "String"
    },
    "condition-actions" : {
      "condition-action" : [ {
        "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
        "description" : "String",
        "ips-enabled" : "Boolean",
        "priority" : "int",
        "condition-status" : [ "INACTIVE", "ACTIVE" ],
        "condition" : { },
        "threat-policy" : { },
        "scheduler" : { },
        "dynamic-application-profile" : { },
        "ssl-forward-proxy-profile" : { },
        "app-fw-policy" : { },
        "secure-web-proxy" : { },
        "utm-policy" : { },
        "ips-policy" : { },
        "vpn-tunnel-refs" : {
          "id" : "Integer",
          "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required",
"Deleted" ],
          "vpn-name" : "String",
          "name" : "String",
          "is-managed" : "Boolean"
        },
        "disabled" : "Boolean",
        "logging" : "Boolean"
      } ]
    },
    "custom-column-data" : "String",
    "description" : "String",
    "sourceidentities" : {
      "sourceidentity" : [ "String" ],
      "totalSize" : "Integer"
    },
    "destination-zone" : {
      "zone" : [ {
        "id" : "Integer",
        "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
        "resolved" : "Boolean",
        "name" : "String",
        "variable-id" : "Integer",
        "default-value" : "String",
        "peer-ams" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "name" : "String",
    "source-zone" : {
      "zone" : [ {
        "id" : "Integer",
        "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
        "resolved" : "Boolean",
        "name" : "String",
        "variable-id" : "Integer",
        "default-value" : "String",
        "peer-ams" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "ssl-forward-proxy-profile" : {
```


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```
      "id" : "Integer",
      "name" : "String"
    },
    "machine-identity" : {
      "uuid" : "String",
      "name" : "String"
    },
    "dynamic-application-profile" : {
      "id" : "Integer",
      "name" : "String"
    },
    "url-category" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "text" : "String"
      } ]
    },
    "source-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
        } ]
      }
    },
    "is-condition-used" : "Boolean",
    "srcMetadataExpression" : "String",
    "dstMetadataExpression" : "String"
  }
}
```


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Sample JSON Output:


```
{
  "rule" : {
    "app-fw-policy" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "atp-source-ip-to-feed" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "atp-destination-ip-to-feed" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "secure-web-proxy" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
    "utm-policy" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "ips-policy" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "rule-profile" : {
      "profile-type" : [ "CUSTOM", "USER_DEFINED", "INHERITED", "NONE" ],
      "user-defined-profile" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      },
      "custom-profile" : {
        "web-redirect" : "Boolean",
        "tcp-syn-check" : "Boolean",
        "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
        "per-second-alarm-threshold" : "Long",
        "per-minute-alarm-threshold" : "Long",
        "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
        "user-firewall-domain" : "String",
```


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```
        "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
        "sd-template" : {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        },
        "redirect-url" : "String",
        "web-redirect-to-https" : "Boolean",
        "access-profile-name" : "String",
        "enable-count" : "Boolean",
        "log-at-session-close" : "Boolean",
        "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION",
"WEB_AUTHENTICATION", "USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
        "auth-only-browser" : "Boolean",
        "auth-user-agent" : "String",
        "service-offload" : "Boolean",
        "no-service-offload" : "Boolean",
        "tcp-seq-check" : "Boolean",
        "window-scale-check" : "Boolean",
        "initial-tcp-mss" : "Integer",
        "reverse-tcp-mss" : "Integer",
        "pass-thru-auth-client-name" : "String",
        "web-auth-client-name" : "String",
        "push-to-jims" : "Boolean",
        "log-at-session-init-time" : "Boolean",
        "uri" : "String"
      },
      "uri" : "String"
    },
    "rule-order" : "Integer",
    "ips-enabled" : "Boolean",
    "policy-id" : "Integer",
    "destination-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
```


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```
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "uri" : "String"
    },
    "version" : "Integer",
    "last-modified-by-user-name" : "String",
    "rule-type" : [ "RULE", "RULEGROUP" ],
    "change-type" : [ "ADD", "DELETE", "MODIFY" ],
    "vpn-tunnel-refs" : {
      "id" : "Integer",
      "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
      "vpn-name" : "String",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "is-managed" : "Boolean",
      "uri" : "String"
    },
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "id" : "Integer",
    "hit-count-details" : {
      "id" : "String",
      "level" : [ "Zero", "High", "Medium", "Low" ],
      "status" : [ "NOT_APPLICABLE", "NOT_AVAILABLE", "AVAILABLE" ],
      "total-hit-count" : "Long",
      "hit-count" : "Long",
      "name" : "String",
      "last-reset-time-stamp" : "Long",
      "hit-percent" : "Double",
      "last-hit-time-stamp" : "Long",
      "first-hit-time-stamp" : "Long",
      "uri" : "String"
    },
    "created-time" : "Date",
    "edit-version" : "Integer",
    "rule-group-id" : "Integer",
    "scheduler" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "services" : {
      "service-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean",
        "uri" : "String"
      } ],
      "service-details" : [ {
        "service_refs" : [ {
          "protocols" : [ {
            "name" : "String",
```


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```
        "description" : "String",
        "alg" : "String",
        "srcPort" : "String",
        "dstPort" : "String",
        "disableTimeout" : "boolean",
        "inactivityTimeout" : "Integer",
        "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpcProgramNumber" : "String",
        "icmpCode" : "int",
        "icmpType" : "int",
        "sunrpcProtocolType" : [ "TCP", "UDP" ],
        "msrpcProtocolType" : [ "TCP", "UDP" ],
        "UUIDPattern" : {
          "UNIX_LINES" : "int",
          "CASE_INSENSITIVE" : "int",
          "COMMENTS" : "int",
          "MULTILINE" : "int",
          "LITERAL" : "int",
          "DOTALL" : "int",
          "UNICODE_CASE" : "int",
          "CANON_EQ" : "int",
          "UNICODE_CHARACTER_CLASS" : "int",
          "serialVersionUID" : "long",
          "pattern" : "String",
          "flags" : "int",
          "compiled" : "boolean",
          "normalizedPattern" : "String",
          "root" : {
            "next" : { }
          },
          "matchRoot" : {
            "next" : { }
          },
          "buffer" : "[]",
          "namedGroups" : { },
          "groupNodes" : "[]",
          "temp" : "[]",
          "capturingGroupCount" : "int",
          "localCount" : "int",
          "cursor" : "int",
          "patternLength" : "int",
          "hasSupplementary" : "boolean",
          "MAX_REPS" : "int",
          "GREEDY" : "int",
          "LAZY" : "int",
          "POSSESSIVE" : "int",
          "INDEPENDENT" : "int",
          "lookbehindEnd" : {
            "next" : { }
          },
          "accept" : {
            "next" : { }
          },
          "lastAccept" : {
            "next" : { }
          },
          "$assertionsDisabled" : "boolean"
        },
        "numericPattern" : {
          "UNIX_LINES" : "int",
          "CASE_INSENSITIVE" : "int",
          "COMMENTS" : "int",
          "MULTILINE" : "int",
```


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```
      "LITERAL" : "int",
      "DOTALL" : "int",
      "UNICODE_CASE" : "int",
      "CANON_EQ" : "int",
      "UNICODE_CHARACTER_CLASS" : "int",
      "serialVersionUID" : "long",
      "pattern" : "String",
      "flags" : "int",
      "compiled" : "boolean",
      "normalizedPattern" : "String",
      "root" : {
        "next" : { }
      },
      "matchRoot" : {
        "next" : { }
      },
      "buffer" : "[]",
      "namedGroups" : { },
      "groupNodes" : "[]",
      "temp" : "[]",
      "capturingGroupCount" : "int",
      "localCount" : "int",
      "cursor" : "int",
      "patternLength" : "int",
      "hasSupplementary" : "boolean",
      "MAX_REPS" : "int",
      "GREEDY" : "int",
      "LAZY" : "int",
      "POSSESSIVE" : "int",
      "INDEPENDENT" : "int",
      "lookbehindEnd" : {
        "next" : { }
      },
      "accept" : {
        "next" : { }
      },
      "lastAccept" : {
        "next" : { }
      },
      "$assertionsDisabled" : "boolean"
    },
    "protocolNumber" : "int",
    "uuid" : "String",
    "applicationName" : "String"
  } ],
  "displayName" : "String",
  "isGroup" : "Boolean",
  "applicationMembers" : [ ],
  "hashKey" : "String",
  "applicationBookName" : "String",
  "parentApplicationGroups" : {
    "serialVersionUID" : "long",
    "DEFAULT_CAPACITY" : "int",
    "EMPTY_ELEMENTDATA" : "[]",
    "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
    "elementData" : "[]",
    "size" : "int",
    "MAX_ARRAY_SIZE" : "int"
  }
} ],
"uuid" : "String",
"display_name" : "String",
"definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
"description" : "String",
```


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```
      "domain-id" : "Integer",
      "name" : "String",
      "is-group" : "Boolean",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  },
  "applications" : {
    "reference" : [ {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
  "threat-policy" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
  },
  "condition-actions" : {
    "condition-action" : [ {
      "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL", "REDIRECT" ],
      "description" : "String",
      "ips-enabled" : "Boolean",
      "priority" : "int",
      "condition-status" : [ "INACTIVE", "ACTIVE" ],
      "condition" : { },
      "threat-policy" : { },
      "scheduler" : { },
      "dynamic-application-profile" : { },
      "ssl-forward-proxy-profile" : { },
      "app-fw-policy" : { },
      "secure-web-proxy" : { },
      "utm-policy" : { },
      "ips-policy" : { },
      "vpn-tunnel-refs" : {
        "id" : "Integer",
        "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required",
"Deleted" ],
        "vpn-name" : "String",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "is-managed" : "Boolean",
        "uri" : "String"
      },
      "disabled" : "Boolean",
      "logging" : "Boolean",
      "uri" : "String",
      "link" : "String"
    } ],
    "uri" : "String"
  },
  "custom-column-data" : "String",
  "description" : "String",
  "sourceidentities" : {
    "sourceidentity" : [ "String" ],
```


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```
  "uri" : "String",
  "totalSize" : "Integer"
},
"last-modified-time" : "Date",
"created-by-user-name" : "String",
"destination-zone" : {
  "zone" : [ {
    "id" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
    "resolved" : "Boolean",
    "domain-id" : "Integer",
    "name" : "String",
    "domain-name" : "String",
    "variable-id" : "Integer",
    "default-value" : "String",
    "uri" : "String",
    "peer-ams" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"name" : "String",
"source-zone" : {
  "zone" : [ {
    "id" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
    "resolved" : "Boolean",
    "domain-id" : "Integer",
    "name" : "String",
    "domain-name" : "String",
    "variable-id" : "Integer",
    "default-value" : "String",
    "uri" : "String",
    "peer-ams" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"ssl-forward-proxy-profile" : {
  "id" : "Integer",
  "name" : "String",
  "domain-id" : "Integer",
  "domain-name" : "String",
  "uri" : "String"
},
"machine-identity" : {
  "uuid" : "String",
  "name" : "String",
  "domain-id" : "Integer",
  "uri" : "String"
},
"dynamic-application-profile" : {
  "id" : "Integer",
  "name" : "String",
  "domain-id" : "Integer",
  "uri" : "String"
},
"url-category" : {
  "reference" : [ {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "text" : "String",
```


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```
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "source-address" : {
    "exclude-list" : "Boolean",
    "addresses" : {
      "address-reference" : [ {
        "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "id" : "String",
        "uuid" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "uri" : "String"
  },
  "is-condition-used" : "Boolean",
  "uri" : "String",
  "srcMetadataExpression" : "String",
  "dstMetadataExpression" : "String"
 }
}
```


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CHAPTER 2

NAT Policy Management RESTful Web Services

The following opertions can be performed using Secuirty Director NAT Policy Management RESTful Web Services

Get NAT Rules For a Rule Group

This request is used to get details of all the rules under a rule group, for a given policy ID.

URI	/api/juniper/sd/policy-management/nat/policies/{policy-id}/rules/{rule-group-id}/rules
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.nat.rules+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.nat.rules+json;version=2;q=0.02
Access-Control	manageNATPolicy

Sample JSON Output:


```
{
  "dc-nat-rules" : {
    "rule" : [ {
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "version" : "Integer",
      "edit-version" : "Integer",
      "created-time" : "Date",
      "last-modified-by-user-name" : "String",
      "id" : "Integer",
      "name" : "String",
      "nat-type" : [ "STATIC", "SOURCE", "DESTINATION" ],
      "rule-group-id" : "Integer",
      "rule-type" : [ "RULE", "RULEGROUP" ],
      "policy-id" : "Integer",
      "disabled" : "Boolean",
      "rule-order" : "Integer",
```


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```
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<dc-nat-rules>
  <rule>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <version>Integer</version>
    <edit-version>Integer</edit-version>
    <created-time>Date</created-time>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <id>Integer</id>
    <name>String</name>
    <nat-type>STATIC</nat-type>
    <nat-type>SOURCE</nat-type>
    <nat-type>DESTINATION</nat-type>
    <rule-group-id>Integer</rule-group-id>
    <rule-type>RULE</rule-type>
    <rule-type>RULEGROUP</rule-type>
    <policy-id>Integer</policy-id>
    <disabled>Boolean</disabled>
    <rule-order>Integer</rule-order>
    <link>String</link>
  </rule>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</dc-nat-rules>
```

Delete NAT Rules

This request is used to delete an existing rule by its ID.

URI	/api/juniper/sd/policy-management/nat/policies/{policy-id}/rules/{rule-id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None

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Access-Control	modifyNATPolicy

Modify NAT Rule

This request is used to modify the content of an existing rule.

URI	/api/juniper/sd/policy-management/nat/policies/{policy-id}/rules/{rule-id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.policy-management.nat.rule+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.policy-management.nat.rule+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.policy-management.nat.rule+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.nat.rule+json;version=2;q=0.02
Access-Control	modifyNATPolicy

Sample JSON Input


```
{
  "rule" : {
    "version" : "Integer",
    "edit-version" : "Integer",
    "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
    "translated-packet" : {
      "poxy-arp-entries" : {
        "arp-entry" : [ {
          "is-overridden" : "Boolean",
          "address" : {
            "address_refs" : [ {
              "members" : [ ],
              "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
              "ipAddress" : "String",
              "hostName" : "String",
              "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
              "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
              "zone" : "String",
              "variableId" : "Integer",
              "hashKey" : "String",
              "addressBookName" : "String",
              "associatedMetadata" : "String",
```


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```
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
           } ],
           "id" : "String",
           "uuid" : "String",
           "name" : "String",
           "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
           "variable-id" : "Integer"
         },
         "intf-value" : "String",
         "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
         "recommended-intf-value" : "String",
         "range-ip" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "translated-traffic-match-type" : [ "NO_TRANSLATION", "INTERFACE", "POOL", "INET", "PREFIX" ],
      "persistent-nat-setting" : {
        "address-mapping" : "Boolean",
        "max_session_number" : "Integer",
        "inactivity-timeout" : "Integer",
        "persistent-nat-type" : [ "NONE", "ANY_REMOTE_HOST", "TARGET_HOST",
"TARGET_HOST_PORT" ]
      },
      "mapped-port" : "String",
      "egress-interface" : {
        "egress-interface" : [ "String" ],
        "totalSize" : "Integer"
      },
      "translated-address" : {
        "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
```


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```
        "id" : "String",
        "uuid" : "String",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer"
      },
      "routing-instance-name" : "String",
      "proxy-arp-enabled" : "Boolean",
      "pool-addresses" : {
        "id" : "Integer",
        "name" : "String"
      }
    },
    "id" : "Integer",
    "description" : "String",
    "name" : "String",
    "services" : {
      "service-reference" : [ {
        "id" : "String",
        "name" : "String",
        "is-group" : "Boolean"
      } ],
      "service-details" : [ {
        "service_refs" : [ {
          "protocols" : [ {
            "name" : "String",
            "description" : "String",
            "alg" : "String",
            "srcPort" : "String",
            "dstPort" : "String",
            "disableTimeout" : "boolean",
            "inactivityTimeout" : "Integer",
            "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
            "rpcProgramNumber" : "String",
            "icmpCode" : "int",
            "icmpType" : "int",
            "sunrpcProtocolType" : [ "TCP", "UDP" ],
            "msrpcProtocolType" : [ "TCP", "UDP" ],
            "UUIDPattern" : {
              "UNIX_LINES" : "int",
              "CASE_INSENSITIVE" : "int",
              "COMMENTS" : "int",
              "MULTILINE" : "int",
              "LITERAL" : "int",
              "DOTALL" : "int",
              "UNICODE_CASE" : "int",
              "CANON_EQ" : "int",
              "UNICODE_CHARACTER_CLASS" : "int",
              "serialVersionUID" : "long",
              "pattern" : "String",
              "flags" : "int",
              "compiled" : "boolean",
              "normalizedPattern" : "String",
              "root" : {
                "next" : { }
              },
              "matchRoot" : {
                "next" : { }
              },
              "buffer" : "[]",
              "namedGroups" : { },
```


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```
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
```


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```
            "lastAccept" : {
              "next" : { }
            },
            "$assertionsDisabled" : "boolean"
          },
          "protocolNumber" : "int",
          "uuid" : "String",
          "applicationName" : "String"
        } ],
        "displayName" : "String",
        "isGroup" : "Boolean",
        "applicationMembers" : [ ],
        "hashKey" : "String",
        "applicationBookName" : "String",
        "parentApplicationGroups" : {
          "serialVersionUID" : "long",
          "DEFAULT_CAPACITY" : "int",
          "EMPTY_ELEMENTDATA" : "[]",
          "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
          "elementData" : "[]",
          "size" : "int",
          "MAX_ARRAY_SIZE" : "int"
        }
      } ],
      "uuid" : "String",
      "display_name" : "String",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "description" : "String",
      "name" : "String",
      "is-group" : "Boolean"
    } ]
  },
  "nat-type" : [ "STATIC", "SOURCE", "DESTINATION" ],
  "original-packet" : {
    "src-port-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "protocol" : {
      "protocol-data" : [ {
        "id" : "Integer",
        "name" : "String",
        "value" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "src-zone-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "src-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
    "src-address" : {
      "address-reference" : [ {
        "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
```


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```
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
           "serialVersionUID" : "long",
           "DEFAULT_CAPACITY" : "int",
           "EMPTY_ELEMENTDATA" : "[]",
           "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
           "elementData" : "[]",
           "size" : "int",
           "MAX_ARRAY_SIZE" : "int"
          }
         } ],
         "id" : "String",
         "uuid" : "String",
         "name" : "String",
         "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
         "variable-id" : "Integer"
        } ],
        "totalSize" : "Integer"
       },
       "dst-address" : {
        "address-reference" : [ {
         "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
           "serialVersionUID" : "long",
           "DEFAULT_CAPACITY" : "int",
           "EMPTY_ELEMENTDATA" : "[]",
           "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
           "elementData" : "[]",
           "size" : "int",
           "MAX_ARRAY_SIZE" : "int"
          }
         } ],
         "id" : "String",
         "uuid" : "String",
         "name" : "String",
         "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
         "variable-id" : "Integer"
        } ],
        "totalSize" : "Integer"
```


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```
      },
      "src-traffic-match-value" : {
        "src-traffic-match-value" : [ "String" ],
        "totalSize" : "Integer"
      },
      "dst-ports" : "String",
      "proxy-arp-entry" : {
        "is-overridden" : "Boolean",
        "address" : {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
        },
        "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
        "intf-value" : "String",
        "recommended-intf-value" : "String",
        "range-ip" : "String"
      },
      "proxy-arp-enabled" : "Boolean",
      "dst-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
      "src-ports" : "String",
      "dst-traffic-match-value" : {
        "dst-traffic-match-value" : [ "String" ],
        "totalSize" : "Integer"
      },
      "dst-zone-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "dst-port-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String"
```


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```
      } ],
      "totalSize" : "Integer"
    }
  },
  "rule-group-id" : "Integer",
  "rule-type" : [ "RULE", "RULEGROUP" ],
  "policy-id" : "Integer",
  "disabled" : "Boolean",
  "rulegroup-disabled" : "Boolean",
  "rule-order" : "Integer",
  "serviceDetails" : [ {
    "protocols" : [ {
      "name" : "String",
      "description" : "String",
      "alg" : "String",
      "srcPort" : "String",
      "dstPort" : "String",
      "disableTimeout" : "boolean",
      "inactivityTimeout" : "Integer",
      "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
      "rpcProgramNumber" : "String",
      "icmpCode" : "int",
      "icmpType" : "int",
      "sunrpcProtocolType" : [ "TCP", "UDP" ],
      "msrpcProtocolType" : [ "TCP", "UDP" ],
      "UUIDPattern" : {
        "UNIX_LINES" : "int",
        "CASE_INSENSITIVE" : "int",
        "COMMENTS" : "int",
        "MULTILINE" : "int",
        "LITERAL" : "int",
        "DOTALL" : "int",
        "UNICODE_CASE" : "int",
        "CANON_EQ" : "int",
        "UNICODE_CHARACTER_CLASS" : "int",
        "serialVersionUID" : "long",
        "pattern" : "String",
        "flags" : "int",
        "compiled" : "boolean",
        "normalizedPattern" : "String",
        "root" : {
          "next" : { }
        },
        "matchRoot" : {
          "next" : { }
        },
        "buffer" : "[]",
        "namedGroups" : { },
        "groupNodes" : "[]",
        "temp" : "[]",
        "capturingGroupCount" : "int",
        "localCount" : "int",
        "cursor" : "int",
        "patternLength" : "int",
        "hasSupplementary" : "boolean",
        "MAX_REPS" : "int",
        "GREEDY" : "int",
        "LAZY" : "int",
        "POSSESSIVE" : "int",
        "INDEPENDENT" : "int",
        "lookbehindEnd" : {
          "next" : { }
        },
```


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```
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "numericPattern" : {
    "UNIX_LINES" : "int",
    "CASE_INSENSITIVE" : "int",
    "COMMENTS" : "int",
    "MULTILINE" : "int",
    "LITERAL" : "int",
    "DOTALL" : "int",
    "UNICODE_CASE" : "int",
    "CANON_EQ" : "int",
    "UNICODE_CHARACTER_CLASS" : "int",
    "serialVersionUID" : "long",
    "pattern" : "String",
    "flags" : "int",
    "compiled" : "boolean",
    "normalizedPattern" : "String",
    "root" : {
      "next" : { }
    },
    "matchRoot" : {
      "next" : { }
    },
    "buffer" : "[]",
    "namedGroups" : { },
    "groupNodes" : "[]",
    "temp" : "[]",
    "capturingGroupCount" : "int",
    "localCount" : "int",
    "cursor" : "int",
    "patternLength" : "int",
    "hasSupplementary" : "boolean",
    "MAX_REPS" : "int",
    "GREEDY" : "int",
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String",
  "applicationName" : "String"
} ],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String",
"applicationBookName" : "String",
"parentApplicationGroups" : {
```


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```
      "serialVersionUID" : "long",
      "DEFAULT_CAPACITY" : "int",
      "EMPTY_ELEMENTDATA" : "[]",
      "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
      "elementData" : "[]",
      "size" : "int",
      "MAX_ARRAY_SIZE" : "int"
    }
   } ]
  }
}
```


Sample JSON Output:


```
{
  "rule" : {
    "version" : "Integer",
    "created-time" : "Date",
    "last-modified-by-user-name" : "String",
    "edit-version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
    "translated-packet" : {
      "poxy-arp-entries" : {
       "arp-entry" : [ {
         "is-overridden" : "Boolean",
         "address" : {
           "address_refs" : [ {
             "members" : [ ],
             "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
             "ipAddress" : "String",
             "hostName" : "String",
             "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
             "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
             "zone" : "String",
             "variableId" : "Integer",
             "hashKey" : "String",
             "addressBookName" : "String",
             "associatedMetadata" : "String",
             "parentAddressGroups" : {
               "serialVersionUID" : "long",
               "DEFAULT_CAPACITY" : "int",
               "EMPTY_ELEMENTDATA" : "[]",
               "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
               "elementData" : "[]",
               "size" : "int",
               "MAX_ARRAY_SIZE" : "int"
             }
           } ],
           "id" : "String",
           "uuid" : "String",
           "domain-id" : "Integer",
           "name" : "String",
           "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
           "variable-id" : "Integer",
           "uri" : "String"
         },
         "intf-value" : "String",
         "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
         "recommended-intf-value" : "String",
```


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```
          "range-ip" : "String",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "translated-traffic-match-type" : [ "NO_TRANSLATION", "INTERFACE", "POOL", "INET", "PREFIX" ],
      "persistent-nat-setting" : {
        "address-mapping" : "Boolean",
        "max_session_number" : "Integer",
        "inactivity-timeout" : "Integer",
        "uri" : "String",
        "persistent-nat-type" : [ "NONE", "ANY_REMOTE_HOST", "TARGET_HOST",
"TARGET_HOST_PORT" ]
      },
      "mapped-port" : "String",
      "egress-interface" : {
        "egress-interface" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "translated-address" : {
        "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "id" : "String",
        "uuid" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      },
      "routing-instance-name" : "String",
      "proxy-arp-enabled" : "Boolean",
      "pool-addresses" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
```


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```
      },
      "uri" : "String"
    },
    "id" : "Integer",
    "description" : "String",
    "name" : "String",
    "services" : {
      "service-reference" : [ {
        "id" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String",
      "service-details" : [ {
        "service_refs" : [ {
          "protocols" : [ {
            "name" : "String",
            "description" : "String",
            "alg" : "String",
            "srcPort" : "String",
            "dstPort" : "String",
            "disableTimeout" : "boolean",
            "inactivityTimeout" : "Integer",
            "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
            "rpcProgramNumber" : "String",
            "icmpCode" : "int",
            "icmpType" : "int",
            "sunrpcProtocolType" : [ "TCP", "UDP" ],
            "msrpcProtocolType" : [ "TCP", "UDP" ],
            "UUIDPattern" : {
              "UNIX_LINES" : "int",
              "CASE_INSENSITIVE" : "int",
              "COMMENTS" : "int",
              "MULTILINE" : "int",
              "LITERAL" : "int",
              "DOTALL" : "int",
              "UNICODE_CASE" : "int",
              "CANON_EQ" : "int",
              "UNICODE_CHARACTER_CLASS" : "int",
              "serialVersionUID" : "long",
              "pattern" : "String",
              "flags" : "int",
              "compiled" : "boolean",
              "normalizedPattern" : "String",
              "root" : {
                "next" : { }
              },
              "matchRoot" : {
                "next" : { }
              },
              "buffer" : "[]",
              "namedGroups" : { },
              "groupNodes" : "[]",
              "temp" : "[]",
              "capturingGroupCount" : "int",
              "localCount" : "int",
              "cursor" : "int",
              "patternLength" : "int",
              "hasSupplementary" : "boolean",
              "MAX_REPS" : "int",
              "GREEDY" : "int",
```


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```
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "numericPattern" : {
    "UNIX_LINES" : "int",
    "CASE_INSENSITIVE" : "int",
    "COMMENTS" : "int",
    "MULTILINE" : "int",
    "LITERAL" : "int",
    "DOTALL" : "int",
    "UNICODE_CASE" : "int",
    "CANON_EQ" : "int",
    "UNICODE_CHARACTER_CLASS" : "int",
    "serialVersionUID" : "long",
    "pattern" : "String",
    "flags" : "int",
    "compiled" : "boolean",
    "normalizedPattern" : "String",
    "root" : {
      "next" : { }
    },
    "matchRoot" : {
      "next" : { }
    },
    "buffer" : "[]",
    "namedGroups" : { },
    "groupNodes" : "[]",
    "temp" : "[]",
    "capturingGroupCount" : "int",
    "localCount" : "int",
    "cursor" : "int",
    "patternLength" : "int",
    "hasSupplementary" : "boolean",
    "MAX_REPS" : "int",
    "GREEDY" : "int",
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String",
  "applicationName" : "String"
} ],
```


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```
      "displayName" : "String",
      "isGroup" : "Boolean",
      "applicationMembers" : [ ],
      "hashKey" : "String",
      "applicationBookName" : "String",
      "parentApplicationGroups" : {
       "serialVersionUID" : "long",
       "DEFAULT_CAPACITY" : "int",
       "EMPTY_ELEMENTDATA" : "[]",
       "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
       "elementData" : "[]",
       "size" : "int",
       "MAX_ARRAY_SIZE" : "int"
      }
     } ],
     "uuid" : "String",
     "display_name" : "String",
     "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
     "description" : "String",
     "domain-id" : "Integer",
     "name" : "String",
     "is-group" : "Boolean",
     "uri" : "String"
    } ]
   },
   "nat-type" : [ "STATIC", "SOURCE", "DESTINATION" ],
   "original-packet" : {
    "src-port-sets" : {
     "reference" : [ {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "uri" : "String"
     } ],
     "uri" : "String",
     "totalSize" : "Integer"
    },
    "protocol" : {
     "protocol-data" : [ {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "value" : "String",
      "uri" : "String"
     } ],
     "uri" : "String",
     "totalSize" : "Integer"
    },
    "src-zone-sets" : {
     "reference" : [ {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "uri" : "String"
     } ],
     "uri" : "String",
     "totalSize" : "Integer"
    },
    "src-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
    "src-address" : {
     "address-reference" : [ {
      "address_refs" : [ {
       "members" : [ ],
       "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
```


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```
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "id" : "String",
        "uuid" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "dst-address" : {
      "address-reference" : [ {
        "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "id" : "String",
        "uuid" : "String",
        "domain-id" : "Integer",
        "name" : "String",
```


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```
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
       } ],
       "uri" : "String",
       "totalSize" : "Integer"
      },
      "src-traffic-match-value" : {
       "src-traffic-match-value" : [ "String" ],
       "uri" : "String",
       "totalSize" : "Integer"
      },
      "dst-ports" : "String",
      "proxy-arp-entry" : {
       "is-overridden" : "Boolean",
       "address" : {
        "address_refs" : [ {
         "members" : [ ],
         "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
         "ipAddress" : "String",
         "hostName" : "String",
         "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
         "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
         "zone" : "String",
         "variableId" : "Integer",
         "hashKey" : "String",
         "addressBookName" : "String",
         "associatedMetadata" : "String",
         "parentAddressGroups" : {
          "serialVersionUID" : "long",
          "DEFAULT_CAPACITY" : "int",
          "EMPTY_ELEMENTDATA" : "[]",
          "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
          "elementData" : "[]",
          "size" : "int",
          "MAX_ARRAY_SIZE" : "int"
         }
        } ],
        "id" : "String",
        "uuid" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
       },
       "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
       "intf-value" : "String",
       "recommended-intf-value" : "String",
       "range-ip" : "String",
       "uri" : "String"
      },
      "proxy-arp-enabled" : "Boolean",
      "dst-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
      "src-ports" : "String",
      "uri" : "String",
      "dst-traffic-match-value" : {
       "dst-traffic-match-value" : [ "String" ],
```


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```
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "dst-zone-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "dst-port-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    }
  },
  "rule-group-id" : "Integer",
  "rule-type" : [ "RULE", "RULEGROUP" ],
  "policy-id" : "Integer",
  "disabled" : "Boolean",
  "rulegroup-disabled" : "Boolean",
  "rule-order" : "Integer",
  "uri" : "String",
  "serviceDetails" : [ {
    "protocols" : [ {
      "name" : "String",
      "description" : "String",
      "alg" : "String",
      "srcPort" : "String",
      "dstPort" : "String",
      "disableTimeout" : "boolean",
      "inactivityTimeout" : "Integer",
      "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
      "rpcProgramNumber" : "String",
      "icmpCode" : "int",
      "icmpType" : "int",
      "sunrpcProtocolType" : [ "TCP", "UDP" ],
      "msrpcProtocolType" : [ "TCP", "UDP" ],
      "UUIDPattern" : {
        "UNIX_LINES" : "int",
        "CASE_INSENSITIVE" : "int",
        "COMMENTS" : "int",
        "MULTILINE" : "int",
        "LITERAL" : "int",
        "DOTALL" : "int",
        "UNICODE_CASE" : "int",
        "CANON_EQ" : "int",
        "UNICODE_CHARACTER_CLASS" : "int",
        "serialVersionUID" : "long",
        "pattern" : "String",
        "flags" : "int",
        "compiled" : "boolean",
        "normalizedPattern" : "String",
        "root" : {
          "next" : { }
```


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```
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
```


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```
        "lookbehindEnd" : {
          "next" : { }
        },
        "accept" : {
          "next" : { }
        },
        "lastAccept" : {
          "next" : { }
        },
        "$assertionsDisabled" : "boolean"
      },
      "protocolNumber" : "int",
      "uuid" : "String",
      "applicationName" : "String"
    } ],
    "displayName" : "String",
    "isGroup" : "Boolean",
    "applicationMembers" : [ ],
    "hashKey" : "String",
    "applicationBookName" : "String",
    "parentApplicationGroups" : {
      "serialVersionUID" : "long",
      "DEFAULT_CAPACITY" : "int",
      "EMPTY_ELEMENTDATA" : "[]",
      "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
      "elementData" : "[]",
      "size" : "int",
      "MAX_ARRAY_SIZE" : "int"
    }
  } ]
 }
}
```


Get NAT Rules for Policy

This request is used to get details of all the rules associated with a policy.

URI	/api/juniper/sd/policy-management/nat/policies/{policy-id}/rules
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.nat.rules+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.nat.rules+json;version=2;q=0.02
Access-Control	manageNATPolicy

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Sample JSON Output:


```
{
  "dc-nat-rules" : {
    "rule" : [ {
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "version" : "Integer",
      "edit-version" : "Integer",
      "created-time" : "Date",
      "last-modified-by-user-name" : "String",
      "id" : "Integer",
      "name" : "String",
      "nat-type" : [ "STATIC", "SOURCE", "DESTINATION" ],
      "rule-group-id" : "Integer",
      "rule-type" : [ "RULE", "RULEGROUP" ],
      "policy-id" : "Integer",
      "disabled" : "Boolean",
      "rule-order" : "Integer",
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dc-nat-rules>
  <rule>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <version>Integer</version>
    <edit-version>Integer</edit-version>
    <created-time>Date</created-time>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <id>Integer</id>
    <name>String</name>
    <nat-type>STATIC</nat-type>
    <nat-type>SOURCE</nat-type>
    <nat-type>DESTINATION</nat-type>
    <rule-group-id>Integer</rule-group-id>
    <rule-type>RULE</rule-type>
    <rule-type>RULEGROUP</rule-type>
    <policy-id>Integer</policy-id>
    <disabled>Boolean</disabled>
    <rule-order>Integer</rule-order>
    <link>String</link>
  </rule>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</dc-nat-rules>
```


Get NAT Rule By ID

This request is used to get the rule details by its ID.

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URI	/api/juniper/sd/policy-management/nat/policies/{policy-id}/rules/{rule-id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.nat.rule+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.nat.rule+json;version=2;q=0.02
Access-Control	manageNATPolicy

Sample JSON Output:


```
{
  "rule" : {
    "version" : "Integer",
    "created-time" : "Date",
    "last-modified-by-user-name" : "String",
    "edit-version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
    "translated-packet" : {
      "poxy-arp-entries" : {
        "arp-entry" : [ {
          "is-overridden" : "Boolean",
          "address" : {
            "address_refs" : [ {
              "members" : [ ],
              "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
              "ipAddress" : "String",
              "hostName" : "String",
              "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
              "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
              "zone" : "String",
              "variableId" : "Integer",
              "hashKey" : "String",
              "addressBookName" : "String",
              "associatedMetadata" : "String",
              "parentAddressGroups" : {
                "serialVersionUID" : "long",
                "DEFAULT_CAPACITY" : "int",
                "EMPTY_ELEMENTDATA" : "[]",
                "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
                "elementData" : "[]",
                "size" : "int",
                "MAX_ARRAY_SIZE" : "int"
              }
            } ],
            "id" : "String",
```


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```
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        },
        "intf-value" : "String",
        "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
        "recommended-intf-value" : "String",
        "range-ip" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "translated-traffic-match-type" : [ "NO_TRANSLATION", "INTERFACE", "POOL", "INET", "PREFIX" ],
    "persistent-nat-setting" : {
      "address-mapping" : "Boolean",
      "max_session_number" : "Integer",
      "inactivity-timeout" : "Integer",
      "uri" : "String",
      "persistent-nat-type" : [ "NONE", "ANY_REMOTE_HOST", "TARGET_HOST",
"TARGET_HOST_PORT" ]
    },
    "mapped-port" : "String",
    "egress-interface" : {
      "egress-interface" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "translated-address" : {
      "address_refs" : [ {
        "members" : [ ],
        "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "ipAddress" : "String",
        "hostName" : "String",
        "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
        "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String",
        "associatedMetadata" : "String",
        "parentAddressGroups" : {
          "serialVersionUID" : "long",
          "DEFAULT_CAPACITY" : "int",
          "EMPTY_ELEMENTDATA" : "[]",
          "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
          "elementData" : "[]",
          "size" : "int",
          "MAX_ARRAY_SIZE" : "int"
        }
      } ],
      "id" : "String",
      "uuid" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
```


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```
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      },
      "routing-instance-name" : "String",
      "proxy-arp-enabled" : "Boolean",
      "pool-addresses" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      },
      "uri" : "String"
    },
    "id" : "Integer",
    "description" : "String",
    "name" : "String",
    "services" : {
      "service-reference" : [ {
        "id" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String",
      "service-details" : [ {
        "service_refs" : [ {
          "protocols" : [ {
            "name" : "String",
            "description" : "String",
            "alg" : "String",
            "srcPort" : "String",
            "dstPort" : "String",
            "disableTimeout" : "boolean",
            "inactivityTimeout" : "Integer",
            "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
            "rpcProgramNumber" : "String",
            "icmpCode" : "int",
            "icmpType" : "int",
            "sunrpcProtocolType" : [ "TCP", "UDP" ],
            "msrpcProtocolType" : [ "TCP", "UDP" ],
            "UUIDPattern" : {
              "UNIX_LINES" : "int",
              "CASE_INSENSITIVE" : "int",
              "COMMENTS" : "int",
              "MULTILINE" : "int",
              "LITERAL" : "int",
              "DOTALL" : "int",
              "UNICODE_CASE" : "int",
              "CANON_EQ" : "int",
              "UNICODE_CHARACTER_CLASS" : "int",
              "serialVersionUID" : "long",
              "pattern" : "String",
              "flags" : "int",
              "compiled" : "boolean",
              "normalizedPattern" : "String",
              "root" : {
                "next" : { }
              },
              "matchRoot" : {
                "next" : { }
```


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```
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
```


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```
          "accept" : {
            "next" : { }
          },
          "lastAccept" : {
            "next" : { }
          },
          "$assertionsDisabled" : "boolean"
        },
        "protocolNumber" : "int",
        "uuid" : "String",
        "applicationName" : "String"
      } ],
      "displayName" : "String",
      "isGroup" : "Boolean",
      "applicationMembers" : [ ],
      "hashKey" : "String",
      "applicationBookName" : "String",
      "parentApplicationGroups" : {
        "serialVersionUID" : "long",
        "DEFAULT_CAPACITY" : "int",
        "EMPTY_ELEMENTDATA" : "[]",
        "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
        "elementData" : "[]",
        "size" : "int",
        "MAX_ARRAY_SIZE" : "int"
      }
    } ],
    "uuid" : "String",
    "display_name" : "String",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "description" : "String",
    "domain-id" : "Integer",
    "name" : "String",
    "is-group" : "Boolean",
    "uri" : "String"
  } ]
},
"nat-type" : [ "STATIC", "SOURCE", "DESTINATION" ],
"original-packet" : {
  "src-port-sets" : {
    "reference" : [ {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  },
  "protocol" : {
    "protocol-data" : [ {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "value" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  },
  "src-zone-sets" : {
    "reference" : [ {
      "id" : "Integer",
      "name" : "String",
```


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```
          "domain-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "src-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
      "src-address" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "dst-address" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
```


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```
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
           }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "src-traffic-match-value" : {
        "src-traffic-match-value" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "dst-ports" : "String",
      "proxy-arp-entry" : {
        "is-overridden" : "Boolean",
        "address" : {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        },
```


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```
      "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
      "intf-value" : "String",
      "recommended-intf-value" : "String",
      "range-ip" : "String",
      "uri" : "String"
    },
    "proxy-arp-enabled" : "Boolean",
    "dst-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
    "src-ports" : "String",
    "uri" : "String",
    "dst-traffic-match-value" : {
      "dst-traffic-match-value" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "dst-zone-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "dst-port-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    }
  },
  "rule-group-id" : "Integer",
  "rule-type" : [ "RULE", "RULEGROUP" ],
  "policy-id" : "Integer",
  "disabled" : "Boolean",
  "rulegroup-disabled" : "Boolean",
  "rule-order" : "Integer",
  "uri" : "String",
  "serviceDetails" : [ {
    "protocols" : [ {
      "name" : "String",
      "description" : "String",
      "alg" : "String",
      "srcPort" : "String",
      "dstPort" : "String",
      "disableTimeout" : "boolean",
      "inactivityTimeout" : "Integer",
      "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
      "rpcProgramNumber" : "String",
      "icmpCode" : "int",
      "icmpType" : "int",
      "sunrpcProtocolType" : [ "TCP", "UDP" ],
      "msrpcProtocolType" : [ "TCP", "UDP" ],
      "UUIDPattern" : {
        "UNIX_LINES" : "int",
        "CASE_INSENSITIVE" : "int",
        "COMMENTS" : "int",
        "MULTILINE" : "int",
```


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```
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
```


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```
        "groupNodes" : "[]",
        "temp" : "[]",
        "capturingGroupCount" : "int",
        "localCount" : "int",
        "cursor" : "int",
        "patternLength" : "int",
        "hasSupplementary" : "boolean",
        "MAX_REPS" : "int",
        "GREEDY" : "int",
        "LAZY" : "int",
        "POSSESSIVE" : "int",
        "INDEPENDENT" : "int",
        "lookbehindEnd" : {
          "next" : { }
        },
        "accept" : {
          "next" : { }
        },
        "lastAccept" : {
          "next" : { }
        },
        "$assertionsDisabled" : "boolean"
      },
      "protocolNumber" : "int",
      "uuid" : "String",
      "applicationName" : "String"
    } ],
    "displayName" : "String",
    "isGroup" : "Boolean",
    "applicationMembers" : [ ],
    "hashKey" : "String",
    "applicationBookName" : "String",
    "parentApplicationGroups" : {
      "serialVersionUID" : "long",
      "DEFAULT_CAPACITY" : "int",
      "EMPTY_ELEMENTDATA" : "[]",
      "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
      "elementData" : "[]",
      "size" : "int",
      "MAX_ARRAY_SIZE" : "int"
    }
  } ]
 }
}
```


Add a New Rule to NAT Policy

This request is used to add a new rule to an existing rule group or add a new rule group.

URI	/api/juniper/sd/policy-management/nat/policies/{policy-id}/rules
HTTP method	POST

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Content-Type	application/vnd.juniper.sd.policy-management.nat.rule+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.policy-management.nat.rule+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.policy-management.nat.rule+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.nat.rule+json;version=2;q=0.02
Access-Control	modifyNATPolicy

Sample JSON Input


```
{
  "rule" : {
    "version" : "Integer",
    "edit-version" : "Integer",
    "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
    "translated-packet" : {
      "poxy-arp-entries" : {
        "arp-entry" : [ {
          "is-overridden" : "Boolean",
          "address" : {
            "address_refs" : [ {
              "members" : [ ],
              "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
              "ipAddress" : "String",
              "hostName" : "String",
              "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
              "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
              "zone" : "String",
              "variableId" : "Integer",
              "hashKey" : "String",
              "addressBookName" : "String",
              "associatedMetadata" : "String",
              "parentAddressGroups" : {
                "serialVersionUID" : "long",
                "DEFAULT_CAPACITY" : "int",
                "EMPTY_ELEMENTDATA" : "[]",
                "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
                "elementData" : "[]",
                "size" : "int",
                "MAX_ARRAY_SIZE" : "int"
              }
            } ],
            "id" : "String",
            "uuid" : "String",
            "name" : "String",
            "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "variable-id" : "Integer"
          },
          "intf-value" : "String",
          "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
          "recommended-intf-value" : "String",
          "range-ip" : "String"
```


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```
        } ],
        "totalSize" : "Integer"
      },
      "translated-traffic-match-type" : [ "NO_TRANSLATION", "INTERFACE", "POOL", "INET", "PREFIX" ],
      "persistent-nat-setting" : {
        "address-mapping" : "Boolean",
        "max_session_number" : "Integer",
        "inactivity-timeout" : "Integer",
        "persistent-nat-type" : [ "NONE", "ANY_REMOTE_HOST", "TARGET_HOST",
"TARGET_HOST_PORT" ]
      },
      "mapped-port" : "String",
      "egress-interface" : {
        "egress-interface" : [ "String" ],
        "totalSize" : "Integer"
      },
      "translated-address" : {
        "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "id" : "String",
        "uuid" : "String",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer"
      },
      "routing-instance-name" : "String",
      "proxy-arp-enabled" : "Boolean",
      "pool-addresses" : {
        "id" : "Integer",
        "name" : "String"
      }
    },
    "id" : "Integer",
    "description" : "String",
    "name" : "String",
    "services" : {
      "service-reference" : [ {
        "id" : "String",
        "name" : "String",
```


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```
      "is-group" : "Boolean"
    } ],
    "service-details" : [ {
      "service_refs" : [ {
        "protocols" : [ {
          "name" : "String",
          "description" : "String",
          "alg" : "String",
          "srcPort" : "String",
          "dstPort" : "String",
          "disableTimeout" : "boolean",
          "inactivityTimeout" : "Integer",
          "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
          "rpcProgramNumber" : "String",
          "icmpCode" : "int",
          "icmpType" : "int",
          "sunrpcProtocolType" : [ "TCP", "UDP" ],
          "msrpcProtocolType" : [ "TCP", "UDP" ],
          "UUIDPattern" : {
            "UNIX_LINES" : "int",
            "CASE_INSENSITIVE" : "int",
            "COMMENTS" : "int",
            "MULTILINE" : "int",
            "LITERAL" : "int",
            "DOTALL" : "int",
            "UNICODE_CASE" : "int",
            "CANON_EQ" : "int",
            "UNICODE_CHARACTER_CLASS" : "int",
            "serialVersionUID" : "long",
            "pattern" : "String",
            "flags" : "int",
            "compiled" : "boolean",
            "normalizedPattern" : "String",
            "root" : {
              "next" : { }
            },
            "matchRoot" : {
              "next" : { }
            },
            "buffer" : "[]",
            "namedGroups" : { },
            "groupNodes" : "[]",
            "temp" : "[]",
            "capturingGroupCount" : "int",
            "localCount" : "int",
            "cursor" : "int",
            "patternLength" : "int",
            "hasSupplementary" : "boolean",
            "MAX_REPS" : "int",
            "GREEDY" : "int",
            "LAZY" : "int",
            "POSSESSIVE" : "int",
            "INDEPENDENT" : "int",
            "lookbehindEnd" : {
              "next" : { }
            },
            "accept" : {
              "next" : { }
            },
            "lastAccept" : {
              "next" : { }
            },
            "$assertionsDisabled" : "boolean"
```


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```
  },
  "numericPattern" : {
    "UNIX_LINES" : "int",
    "CASE_INSENSITIVE" : "int",
    "COMMENTS" : "int",
    "MULTILINE" : "int",
    "LITERAL" : "int",
    "DOTALL" : "int",
    "UNICODE_CASE" : "int",
    "CANON_EQ" : "int",
    "UNICODE_CHARACTER_CLASS" : "int",
    "serialVersionUID" : "long",
    "pattern" : "String",
    "flags" : "int",
    "compiled" : "boolean",
    "normalizedPattern" : "String",
    "root" : {
      "next" : { }
    },
    "matchRoot" : {
      "next" : { }
    },
    "buffer" : "[]",
    "namedGroups" : { },
    "groupNodes" : "[]",
    "temp" : "[]",
    "capturingGroupCount" : "int",
    "localCount" : "int",
    "cursor" : "int",
    "patternLength" : "int",
    "hasSupplementary" : "boolean",
    "MAX_REPS" : "int",
    "GREEDY" : "int",
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String",
  "applicationName" : "String"
} ],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String",
"applicationBookName" : "String",
"parentApplicationGroups" : {
  "serialVersionUID" : "long",
  "DEFAULT_CAPACITY" : "int",
  "EMPTY_ELEMENTDATA" : "[]",
  "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
  "elementData" : "[]",
  "size" : "int",
  "MAX_ARRAY_SIZE" : "int"
```


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```
          }
        } ],
        "uuid" : "String",
        "display_name" : "String",
        "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "description" : "String",
        "name" : "String",
        "is-group" : "Boolean"
      } ]
    },
    "nat-type" : [ "STATIC", "SOURCE", "DESTINATION" ],
    "original-packet" : {
      "src-port-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "protocol" : {
        "protocol-data" : [ {
          "id" : "Integer",
          "name" : "String",
          "value" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "src-zone-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "src-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
      "src-address" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
```


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```
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer"
       } ],
       "totalSize" : "Integer"
      },
      "dst-address" : {
       "address-reference" : [ {
        "address_refs" : [ {
         "members" : [ ],
         "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
         "ipAddress" : "String",
         "hostName" : "String",
         "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
         "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
         "zone" : "String",
         "variableId" : "Integer",
         "hashKey" : "String",
         "addressBookName" : "String",
         "associatedMetadata" : "String",
         "parentAddressGroups" : {
          "serialVersionUID" : "long",
          "DEFAULT_CAPACITY" : "int",
          "EMPTY_ELEMENTDATA" : "[]",
          "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
          "elementData" : "[]",
          "size" : "int",
          "MAX_ARRAY_SIZE" : "int"
         }
        } ],
        "id" : "String",
        "uuid" : "String",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer"
       } ],
       "totalSize" : "Integer"
      },
      "src-traffic-match-value" : {
       "src-traffic-match-value" : [ "String" ],
       "totalSize" : "Integer"
      },
      "dst-ports" : "String",
      "proxy-arp-entry" : {
       "is-overridden" : "Boolean",
       "address" : {
        "address_refs" : [ {
         "members" : [ ],
         "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
         "ipAddress" : "String",
         "hostName" : "String",
         "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
         "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
         "zone" : "String",
         "variableId" : "Integer",
         "hashKey" : "String",
         "addressBookName" : "String",
```


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```
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
        },
        "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
        "intf-value" : "String",
        "recommended-intf-value" : "String",
        "range-ip" : "String"
      },
      "proxy-arp-enabled" : "Boolean",
      "dst-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
      "src-ports" : "String",
      "dst-traffic-match-value" : {
        "dst-traffic-match-value" : [ "String" ],
        "totalSize" : "Integer"
      },
      "dst-zone-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "dst-port-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String"
        } ],
        "totalSize" : "Integer"
      }
    },
    "rule-group-id" : "Integer",
    "rule-type" : [ "RULE", "RULEGROUP" ],
    "policy-id" : "Integer",
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "rule-order" : "Integer",
    "serviceDetails" : [ {
      "protocols" : [ {
        "name" : "String",
        "description" : "String",
        "alg" : "String",
        "srcPort" : "String",
        "dstPort" : "String",
        "disableTimeout" : "boolean",
        "inactivityTimeout" : "Integer",
        "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpcProgramNumber" : "String",
```


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```
"icmpCode" : "int",
"icmpType" : "int",
"sunrpcProtocolType" : [ "TCP", "UDP" ],
"msrpcProtocolType" : [ "TCP", "UDP" ],
"UUIDPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
```


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```
        "normalizedPattern" : "String",
        "root" : {
          "next" : { }
        },
        "matchRoot" : {
          "next" : { }
        },
        "buffer" : "[]",
        "namedGroups" : { },
        "groupNodes" : "[]",
        "temp" : "[]",
        "capturingGroupCount" : "int",
        "localCount" : "int",
        "cursor" : "int",
        "patternLength" : "int",
        "hasSupplementary" : "boolean",
        "MAX_REPS" : "int",
        "GREEDY" : "int",
        "LAZY" : "int",
        "POSSESSIVE" : "int",
        "INDEPENDENT" : "int",
        "lookbehindEnd" : {
          "next" : { }
        },
        "accept" : {
          "next" : { }
        },
        "lastAccept" : {
          "next" : { }
        },
        "$assertionsDisabled" : "boolean"
      },
      "protocolNumber" : "int",
      "uuid" : "String",
      "applicationName" : "String"
    } ],
    "displayName" : "String",
    "isGroup" : "Boolean",
    "applicationMembers" : [ ],
    "hashKey" : "String",
    "applicationBookName" : "String",
    "parentApplicationGroups" : {
      "serialVersionUID" : "long",
      "DEFAULT_CAPACITY" : "int",
      "EMPTY_ELEMENTDATA" : "[]",
      "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
      "elementData" : "[]",
      "size" : "int",
      "MAX_ARRAY_SIZE" : "int"
    }
  } ]
 }
}
```


Sample JSON Output:


```
{
 "rule" : {
   "version" : "Integer",
   "created-time" : "Date",
   "last-modified-by-user-name" : "String",
   "edit-version" : "Integer",
   "created-by-user-name" : "String",
   "last-modified-time" : "Date",
   "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
```


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```
    "translated-packet" : {
      "poxy-arp-entries" : {
        "arp-entry" : [ {
          "is-overridden" : "Boolean",
          "address" : {
            "address_refs" : [ {
              "members" : [ ],
              "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
              "ipAddress" : "String",
              "hostName" : "String",
              "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
              "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
              "zone" : "String",
              "variableId" : "Integer",
              "hashKey" : "String",
              "addressBookName" : "String",
              "associatedMetadata" : "String",
              "parentAddressGroups" : {
                "serialVersionUID" : "long",
                "DEFAULT_CAPACITY" : "int",
                "EMPTY_ELEMENTDATA" : "[]",
                "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
                "elementData" : "[]",
                "size" : "int",
                "MAX_ARRAY_SIZE" : "int"
              }
            } ],
            "id" : "String",
            "uuid" : "String",
            "domain-id" : "Integer",
            "name" : "String",
            "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "variable-id" : "Integer",
            "uri" : "String"
          },
          "intf-value" : "String",
          "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
          "recommended-intf-value" : "String",
          "range-ip" : "String",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "translated-traffic-match-type" : [ "NO_TRANSLATION", "INTERFACE", "POOL", "INET", "PREFIX" ],
      "persistent-nat-setting" : {
        "address-mapping" : "Boolean",
        "max_session_number" : "Integer",
        "inactivity-timeout" : "Integer",
        "uri" : "String",
        "persistent-nat-type" : [ "NONE", "ANY_REMOTE_HOST", "TARGET_HOST",
"TARGET_HOST_PORT" ]
      },
      "mapped-port" : "String",
      "egress-interface" : {
        "egress-interface" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
```


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```
      "translated-address" : {
        "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "id" : "String",
        "uuid" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      },
      "routing-instance-name" : "String",
      "proxy-arp-enabled" : "Boolean",
      "pool-addresses" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      },
      "uri" : "String"
    },
    "id" : "Integer",
    "description" : "String",
    "name" : "String",
    "services" : {
      "service-reference" : [ {
        "id" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String",
      "service-details" : [ {
        "service_refs" : [ {
          "protocols" : [ {
            "name" : "String",
            "description" : "String",
            "alg" : "String",
            "srcPort" : "String",
```


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```
          "dstPort" : "String",
          "disableTimeout" : "boolean",
          "inactivityTimeout" : "Integer",
          "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
          "rpcProgramNumber" : "String",
          "icmpCode" : "int",
          "icmpType" : "int",
          "sunrpcProtocolType" : [ "TCP", "UDP" ],
          "msrpcProtocolType" : [ "TCP", "UDP" ],
          "UUIDPattern" : {
            "UNIX_LINES" : "int",
            "CASE_INSENSITIVE" : "int",
            "COMMENTS" : "int",
            "MULTILINE" : "int",
            "LITERAL" : "int",
            "DOTALL" : "int",
            "UNICODE_CASE" : "int",
            "CANON_EQ" : "int",
            "UNICODE_CHARACTER_CLASS" : "int",
            "serialVersionUID" : "long",
            "pattern" : "String",
            "flags" : "int",
            "compiled" : "boolean",
            "normalizedPattern" : "String",
            "root" : {
              "next" : { }
            },
            "matchRoot" : {
              "next" : { }
            },
            "buffer" : "[]",
            "namedGroups" : { },
            "groupNodes" : "[]",
            "temp" : "[]",
            "capturingGroupCount" : "int",
            "localCount" : "int",
            "cursor" : "int",
            "patternLength" : "int",
            "hasSupplementary" : "boolean",
            "MAX_REPS" : "int",
            "GREEDY" : "int",
            "LAZY" : "int",
            "POSSESSIVE" : "int",
            "INDEPENDENT" : "int",
            "lookbehindEnd" : {
              "next" : { }
            },
            "accept" : {
              "next" : { }
            },
            "lastAccept" : {
              "next" : { }
            },
            "$assertionsDisabled" : "boolean"
          },
          "numericPattern" : {
            "UNIX_LINES" : "int",
            "CASE_INSENSITIVE" : "int",
            "COMMENTS" : "int",
            "MULTILINE" : "int",
            "LITERAL" : "int",
            "DOTALL" : "int",
            "UNICODE_CASE" : "int",
```


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```
      "CANON_EQ" : "int",
      "UNICODE_CHARACTER_CLASS" : "int",
      "serialVersionUID" : "long",
      "pattern" : "String",
      "flags" : "int",
      "compiled" : "boolean",
      "normalizedPattern" : "String",
      "root" : {
        "next" : { }
      },
      "matchRoot" : {
        "next" : { }
      },
      "buffer" : "[]",
      "namedGroups" : { },
      "groupNodes" : "[]",
      "temp" : "[]",
      "capturingGroupCount" : "int",
      "localCount" : "int",
      "cursor" : "int",
      "patternLength" : "int",
      "hasSupplementary" : "boolean",
      "MAX_REPS" : "int",
      "GREEDY" : "int",
      "LAZY" : "int",
      "POSSESSIVE" : "int",
      "INDEPENDENT" : "int",
      "lookbehindEnd" : {
        "next" : { }
      },
      "accept" : {
        "next" : { }
      },
      "lastAccept" : {
        "next" : { }
      },
      "$assertionsDisabled" : "boolean"
    },
    "protocolNumber" : "int",
    "uuid" : "String",
    "applicationName" : "String"
  } ],
  "displayName" : "String",
  "isGroup" : "Boolean",
  "applicationMembers" : [ ],
  "hashKey" : "String",
  "applicationBookName" : "String",
  "parentApplicationGroups" : {
    "serialVersionUID" : "long",
    "DEFAULT_CAPACITY" : "int",
    "EMPTY_ELEMENTDATA" : "[]",
    "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
    "elementData" : "[]",
    "size" : "int",
    "MAX_ARRAY_SIZE" : "int"
  }
} ],
"uuid" : "String",
"display_name" : "String",
"definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
"description" : "String",
"domain-id" : "Integer",
"name" : "String",
"is-group" : "Boolean",
```


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```
      "uri" : "String"
    } ]
  },
  "nat-type" : [ "STATIC", "SOURCE", "DESTINATION" ],
  "original-packet" : {
    "src-port-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "protocol" : {
      "protocol-data" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "value" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "src-zone-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "src-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
    "src-address" : {
      "address-reference" : [ {
        "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "id" : "String",
```


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```
        "uuid" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
       } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "dst-address" : {
      "address-reference" : [ {
        "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "id" : "String",
        "uuid" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
       } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "src-traffic-match-value" : {
      "src-traffic-match-value" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "dst-ports" : "String",
    "proxy-arp-entry" : {
      "is-overridden" : "Boolean",
      "address" : {
        "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
```


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```
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "id" : "String",
        "uuid" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      },
      "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
      "intf-value" : "String",
      "recommended-intf-value" : "String",
      "range-ip" : "String",
      "uri" : "String"
    },
    "proxy-arp-enabled" : "Boolean",
    "dst-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
    "src-ports" : "String",
    "uri" : "String",
    "dst-traffic-match-value" : {
      "dst-traffic-match-value" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "dst-zone-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "dst-port-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
```


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```
      }
    },
    "rule-group-id" : "Integer",
    "rule-type" : [ "RULE", "RULEGROUP" ],
    "policy-id" : "Integer",
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "rule-order" : "Integer",
    "uri" : "String",
    "serviceDetails" : [ {
      "protocols" : [ {
        "name" : "String",
        "description" : "String",
        "alg" : "String",
        "srcPort" : "String",
        "dstPort" : "String",
        "disableTimeout" : "boolean",
        "inactivityTimeout" : "Integer",
        "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpcProgramNumber" : "String",
        "icmpCode" : "int",
        "icmpType" : "int",
        "sunrpcProtocolType" : [ "TCP", "UDP" ],
        "msrpcProtocolType" : [ "TCP", "UDP" ],
        "UUIDPattern" : {
          "UNIX_LINES" : "int",
          "CASE_INSENSITIVE" : "int",
          "COMMENTS" : "int",
          "MULTILINE" : "int",
          "LITERAL" : "int",
          "DOTALL" : "int",
          "UNICODE_CASE" : "int",
          "CANON_EQ" : "int",
          "UNICODE_CHARACTER_CLASS" : "int",
          "serialVersionUID" : "long",
          "pattern" : "String",
          "flags" : "int",
          "compiled" : "boolean",
          "normalizedPattern" : "String",
          "root" : {
            "next" : { }
          },
          "matchRoot" : {
            "next" : { }
          },
          "buffer" : "[]",
          "namedGroups" : { },
          "groupNodes" : "[]",
          "temp" : "[]",
          "capturingGroupCount" : "int",
          "localCount" : "int",
          "cursor" : "int",
          "patternLength" : "int",
          "hasSupplementary" : "boolean",
          "MAX_REPS" : "int",
          "GREEDY" : "int",
          "LAZY" : "int",
          "POSSESSIVE" : "int",
          "INDEPENDENT" : "int",
          "lookbehindEnd" : {
            "next" : { }
          },
          "accept" : {
```


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```
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "numericPattern" : {
    "UNIX_LINES" : "int",
    "CASE_INSENSITIVE" : "int",
    "COMMENTS" : "int",
    "MULTILINE" : "int",
    "LITERAL" : "int",
    "DOTALL" : "int",
    "UNICODE_CASE" : "int",
    "CANON_EQ" : "int",
    "UNICODE_CHARACTER_CLASS" : "int",
    "serialVersionUID" : "long",
    "pattern" : "String",
    "flags" : "int",
    "compiled" : "boolean",
    "normalizedPattern" : "String",
    "root" : {
      "next" : { }
    },
    "matchRoot" : {
      "next" : { }
    },
    "buffer" : "[]",
    "namedGroups" : { },
    "groupNodes" : "[]",
    "temp" : "[]",
    "capturingGroupCount" : "int",
    "localCount" : "int",
    "cursor" : "int",
    "patternLength" : "int",
    "hasSupplementary" : "boolean",
    "MAX_REPS" : "int",
    "GREEDY" : "int",
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String",
  "applicationName" : "String"
} ],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String",
"applicationBookName" : "String",
"parentApplicationGroups" : {
  "serialVersionUID" : "long",
```


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```
      "DEFAULT_CAPACITY" : "int",
      "EMPTY_ELEMENTDATA" : "[]",
      "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
      "elementData" : "[]",
      "size" : "int",
      "MAX_ARRAY_SIZE" : "int"
    }
   } ]
  }
}
```


Publish NAT Policy

This request is used to schedule a job and publish a NAT policy. After the publish, you must use the device update RESTful Web Services to update the devices.

URI	/api/juniper/sd/policy-management/nat/provisioning/publish-policy?update=boolean
HTTP method	POST
Content-Type	application/vnd.juniper.sd.fwpolicy-provisioning.publish+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.fwpolicy-provisioning.publish+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.fwpolicy-provisioning.monitorable-task-instances+xml;version=1;q=0.01 application/vnd.juniper.sd.fwpolicy-provisioning.monitorable-task-instances+json;version=1;q=0.01
Access-Control	publishNATPolicy

Sample JSON Input


```
{
 "publish" : {
  "policy-ids" : {
   "policy-id" : [ "Integer" ]
  },
  "delete-oldest-snapshot" : "Boolean"
 }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<publish>
  <policy-ids>
    <policy-id>Integer</policy-id>
  </policy-ids>
  <delete-oldest-snapshot>Boolean</delete-oldest-snapshot>
</publish>
```

Sample JSON Output:

```
{
  "monitorable-task-instances" : {
    "monitorable-task-instance-managed-object" : [ {
      "supports-recurrence" : "Boolean",
      "repeat-cron" : "String",
      "mo-state" : "String",
      "schedule-string" : "String",
      "job-status" : [ "UNDETERMINED", "INCOMPLETE", "FAILURE", "SUCCESS", "CANCELLED",
"DEPRECATED" ],
      "job-parameter-data-string" : "String",
      "gui-name" : "String",
      "job-state" : [ "SCHEDULED", "QUEUED", "STARTING", "INPROGRESS", "DONE", "CANCELLING",
"DISABLED" ],
      "start-time-string-rest" : "String",
      "device-image-name" : "String",
      "end-time" : "Date",
      "task-name" : "String",
      "service-name" : "String",
      "id" : "String",
      "start-time" : "Date",
      "operation" : "String",
      "details" : "String",
      "details-action-type" : "String",
      "name" : "String",
      "scheduled-start-time-string-rest" : "String",
      "retry-of-id" : "Integer",
      "scheduled-start-time" : "Date",
      "script-bundle-selected" : "String",
      "details-action-url" : "String",
      "end-time-string-rest" : "String",
      "job-params-action-url" : "String",
      "percent-complete" : "Double",
      "is-enabled" : "Boolean",
      "retry-group-id" : "Integer",
      "job-params-summary" : "String",
      "complete-time" : "Integer",
      "user" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<monitorable-task-instances>
  <monitorable-task-instance-managed-object>
    <supports-recurrence>Boolean</supports-recurrence>
    <repeat-cron>String</repeat-cron>
    <mo-state>String</mo-state>
    <schedule-string>String</schedule-string>
    <job-status>UNDETERMINED</job-status>
    <job-status>INCOMPLETE</job-status>
    <job-status>FAILURE</job-status>
    <job-status>SUCCESS</job-status>
    <job-status>CANCELLED</job-status>
    <job-status>DEPRECATED</job-status>
    <job-parameter-data-string>String</job-parameter-data-string>
    <gui-name>String</gui-name>
    <job-state>SCHEDULED</job-state>
    <job-state>QUEUED</job-state>
    <job-state>STARTING</job-state>
    <job-state>INPROGRESS</job-state>
    <job-state>DONE</job-state>
    <job-state>CANCELLING</job-state>
    <job-state>DISABLED</job-state>
    <start-time-string-rest>String</start-time-string-rest>
    <device-image-name>String</device-image-name>
    <end-time>Date</end-time>
    <task-name>String</task-name>
    <service-name>String</service-name>
    <id>String</id>
    <start-time>Date</start-time>
    <operation>String</operation>
    <details>String</details>
    <details-action-type>String</details-action-type>
    <name>String</name>
    <scheduled-start-time-string-rest>String</scheduled-start-time-string-rest>
    <retry-of-id>Integer</retry-of-id>
    <scheduled-start-time>Date</scheduled-start-time>
    <script-bundle-selected>String</script-bundle-selected>
    <details-action-url>String</details-action-url>
    <end-time-string-rest>String</end-time-string-rest>
    <job-params-action-url>String</job-params-action-url>
    <percent-complete>Double</percent-complete>
    <is-enabled>Boolean</is-enabled>
    <retry-group-id>Integer</retry-group-id>
    <job-params-summary>String</job-params-summary>
    <complete-time>Integer</complete-time>
    <user>String</user>
    <uri>String</uri>
  </monitorable-task-instance-managed-object>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</monitorable-task-instances>
```

Assign Devices to the NAT Policy

This request is used to assign devices to a policy or remove devices from a policy. You must send a list of devices to add or remove from a policy.

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URI	/api/juniper/sd/policy-management/nat/policies/{policy-id}/assign-devices
HTTP method	POST
Content-Type	application/vnd.juniper.sd.policy-management.assign-devices+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.policy-management.assign-devices+json;version=1;charset=UTF-8
Accept-Type	None
Access-Control	assignDevicesToNATPolicy

Sample JSON Input

```
{
  "assign-devices" : {
    "add-list" : {
      "device" : [ {
        "id" : "Integer",
        "name" : "String"
      } ]
    },
    "delete-list" : {
      "device" : [ {
        "id" : "Integer",
        "name" : "String"
      } ]
    }
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<assign-devices>
  <add-list>
    <device>
      <id>Integer</id>
      <name>String</name>
    </device>
  </add-list>
  <delete-list>
    <device>
      <id>Integer</id>
      <name>String</name>
    </device>
  </delete-list>
</assign-devices>
```

Get All NAT Policies

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This request is used to get all the NAT policies configured in Security Director.

URI	/api/juniper/sd/policy-management/nat/policies
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.nat.policies+xml;version=1;q=0.01 application/vnd.juniper.sd.policy-management.nat.policies+json;version=1;q=0.01
Access-Control	manageNATPolicy

Sample JSON Output:


```
{
  "policies" : {
    "policy" : [ {
      "last-successfully-deployed-time" : "Date",
      "dirty-rule-count" : "Integer",
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "version" : "Integer",
      "sequence-number" : "Integer",
      "locked-for-edit" : "Boolean",
      "requesterId" : "String",
      "has-unsubmitted-changes" : "Boolean",
      "policy-position" : [ "DEVICE", "PRE", "POST" ],
      "rule-count" : "Integer",
      "device-count" : "Integer",
      "id" : "Integer",
      "description" : "String",
      "domain-id" : "Integer",
      "device-list" : {
        "devices" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "name" : "String",
      "edit-version" : "Integer",
      "created-time" : "Date",
      "policy-order" : "Double",
      "policy-state" : [ "DRAFT", "FINAL" ],
      "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
      "last-modified-by-user-name" : "String",
```


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```
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
    "enable-auto-arp" : "Boolean",
    "proxy-arp-managed" : "Boolean",
    "uri" : "String",
    "link" : "String",
    "has-OOB-changes" : "Boolean"
   } ],
   "uri" : "String",
   "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<policies>
  <policy>
    <last-successfully-deployed-time>Date</last-successfully-deployed-time>
    <dirty-rule-count>Integer</dirty-rule-count>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <version>Integer</version>
    <sequence-number>Integer</sequence-number>
    <locked-for-edit>Boolean</locked-for-edit>
    <requesterId>String</requesterId>
    <has-unsubmitted-changes>Boolean</has-unsubmitted-changes>
    <policy-position>DEVICE</policy-position>
    <policy-position>PRE</policy-position>
    <policy-position>POST</policy-position>
    <rule-count>Integer</rule-count>
    <device-count>Integer</device-count>
    <id>Integer</id>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <device-list>
      <devices>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <uri>String</uri>
      </devices>
      <uri>String</uri>
    </device-list>
    <name>String</name>
    <edit-version>Integer</edit-version>
    <created-time>Date</created-time>
    <policy-order>Double</policy-order>
    <policy-state>DRAFT</policy-state>
    <policy-state>FINAL</policy-state>
    <policy-type>GLOBAL</policy-type>
    <policy-type>GROUP</policy-type>
    <policy-type>DEVICE</policy-type>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <publish-state>Not Published</publish-state>
    <publish-state>Partially Published</publish-state>
    <publish-state>Published</publish-state>
    <publish-state>Re-Publish Required</publish-state>
    <publish-state>Deleted</publish-state>
    <enable-auto-arp>Boolean</enable-auto-arp>
    <proxy-arp-managed>Boolean</proxy-arp-managed>
    <uri>String</uri>
    <link>String</link>
    <has-OOB-changes>Boolean</has-OOB-changes>
```


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```
  </policy>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</policies>
```

Get NAT Policy By ID

This request is used to get the NAT policy details by its ID.

URI	/api/juniper/sd/policy-management/nat/policies/{policy-id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.nat.policy+xml;version=1;q=0.01 application/vnd.juniper.sd.policy-management.nat.policy+json;version=1;q=0.01
Access-Control	manageNATPolicy

Sample JSON Output:


```
{
  "policy" : {
    "nat-policy-details" : [ {
      "version" : "Integer",
      "created-time" : "Date",
      "last-modified-by-user-name" : "String",
      "edit-version" : "Integer",
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
      "translated-packet" : {
        "poxy-arp-entries" : {
          "arp-entry" : [ {
            "is-overridden" : "Boolean",
            "address" : {
              "address_refs" : [ {
                "members" : [ ],
                "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
```


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```
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        },
        "intf-value" : "String",
        "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
        "recommended-intf-value" : "String",
        "range-ip" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "translated-traffic-match-type" : [ "NO_TRANSLATION", "INTERFACE", "POOL", "INET", "PREFIX" ],
    "persistent-nat-setting" : {
      "address-mapping" : "Boolean",
      "max_session_number" : "Integer",
      "inactivity-timeout" : "Integer",
      "uri" : "String",
      "persistent-nat-type" : [ "NONE", "ANY_REMOTE_HOST", "TARGET_HOST",
"TARGET_HOST_PORT" ]
    },
    "mapped-port" : "String",
    "egress-interface" : {
      "egress-interface" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "translated-address" : {
      "address_refs" : [ {
        "members" : [ ],
        "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "ipAddress" : "String",
        "hostName" : "String",
        "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
```


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```
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        },
        "routing-instance-name" : "String",
        "proxy-arp-enabled" : "Boolean",
        "pool-addresses" : {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        },
        "uri" : "String"
      },
      "id" : "Integer",
      "description" : "String",
      "name" : "String",
      "services" : {
        "service-reference" : [ {
          "id" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "is-group" : "Boolean",
          "uri" : "String"
        } ],
        "uri" : "String",
        "service-details" : [ {
          "service_refs" : [ {
            "protocols" : [ {
              "name" : "String",
              "description" : "String",
              "alg" : "String",
              "srcPort" : "String",
              "dstPort" : "String",
              "disableTimeout" : "boolean",
              "inactivityTimeout" : "Integer",
              "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
              "rpcProgramNumber" : "String",
              "icmpCode" : "int",
              "icmpType" : "int",
              "sunrpcProtocolType" : [ "TCP", "UDP" ],
```


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```
"msrpcProtocolType" : [ "TCP", "UDP" ],
"UUIDPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
```


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```
        },
        "matchRoot" : {
          "next" : { }
        },
        "buffer" : "[]",
        "namedGroups" : { },
        "groupNodes" : "[]",
        "temp" : "[]",
        "capturingGroupCount" : "int",
        "localCount" : "int",
        "cursor" : "int",
        "patternLength" : "int",
        "hasSupplementary" : "boolean",
        "MAX_REPS" : "int",
        "GREEDY" : "int",
        "LAZY" : "int",
        "POSSESSIVE" : "int",
        "INDEPENDENT" : "int",
        "lookbehindEnd" : {
          "next" : { }
        },
        "accept" : {
          "next" : { }
        },
        "lastAccept" : {
          "next" : { }
        },
        "$assertionsDisabled" : "boolean"
      },
      "protocolNumber" : "int",
      "uuid" : "String",
      "applicationName" : "String"
    } ],
    "displayName" : "String",
    "isGroup" : "Boolean",
    "applicationMembers" : [ ],
    "hashKey" : "String",
    "applicationBookName" : "String",
    "parentApplicationGroups" : {
      "serialVersionUID" : "long",
      "DEFAULT_CAPACITY" : "int",
      "EMPTY_ELEMENTDATA" : "[]",
      "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
      "elementData" : "[]",
      "size" : "int",
      "MAX_ARRAY_SIZE" : "int"
    }
  } ],
  "uuid" : "String",
  "display_name" : "String",
  "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "description" : "String",
  "domain-id" : "Integer",
  "name" : "String",
  "is-group" : "Boolean",
  "uri" : "String"
 } ]
},
"nat-type" : [ "STATIC", "SOURCE", "DESTINATION" ],
"original-packet" : {
 "src-port-sets" : {
  "reference" : [ {
   "id" : "Integer",
   "name" : "String",
```


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```
          "domain-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "protocol" : {
        "protocol-data" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "value" : "String",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "src-zone-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "src-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
      "src-address" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
```


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```
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "dst-address" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "src-traffic-match-value" : {
        "src-traffic-match-value" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "dst-ports" : "String",
      "proxy-arp-entry" : {
        "is-overridden" : "Boolean",
        "address" : {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
```


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```
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        },
        "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
        "intf-value" : "String",
        "recommended-intf-value" : "String",
        "range-ip" : "String",
        "uri" : "String"
      },
      "proxy-arp-enabled" : "Boolean",
      "dst-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
      "src-ports" : "String",
      "uri" : "String",
      "dst-traffic-match-value" : {
        "dst-traffic-match-value" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "dst-zone-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "dst-port-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      }
    },
    "rule-group-id" : "Integer",
    "rule-type" : [ "RULE", "RULEGROUP" ],
    "policy-id" : "Integer",
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "rule-order" : "Integer",
    "uri" : "String",
```


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```
"serviceDetails" : [ {
  "protocols" : [ {
    "name" : "String",
    "description" : "String",
    "alg" : "String",
    "srcPort" : "String",
    "dstPort" : "String",
    "disableTimeout" : "boolean",
    "inactivityTimeout" : "Integer",
    "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
    "rpcProgramNumber" : "String",
    "icmpCode" : "int",
    "icmpType" : "int",
    "sunrpcProtocolType" : [ "TCP", "UDP" ],
    "msrpcProtocolType" : [ "TCP", "UDP" ],
    "UUIDPattern" : {
      "UNIX_LINES" : "int",
      "CASE_INSENSITIVE" : "int",
      "COMMENTS" : "int",
      "MULTILINE" : "int",
      "LITERAL" : "int",
      "DOTALL" : "int",
      "UNICODE_CASE" : "int",
      "CANON_EQ" : "int",
      "UNICODE_CHARACTER_CLASS" : "int",
      "serialVersionUID" : "long",
      "pattern" : "String",
      "flags" : "int",
      "compiled" : "boolean",
      "normalizedPattern" : "String",
      "root" : {
        "next" : { }
      },
      "matchRoot" : {
        "next" : { }
      },
      "buffer" : "[]",
      "namedGroups" : { },
      "groupNodes" : "[]",
      "temp" : "[]",
      "capturingGroupCount" : "int",
      "localCount" : "int",
      "cursor" : "int",
      "patternLength" : "int",
      "hasSupplementary" : "boolean",
      "MAX_REPS" : "int",
      "GREEDY" : "int",
      "LAZY" : "int",
      "POSSESSIVE" : "int",
      "INDEPENDENT" : "int",
      "lookbehindEnd" : {
        "next" : { }
      },
      "accept" : {
        "next" : { }
      },
      "lastAccept" : {
        "next" : { }
      },
      "$assertionsDisabled" : "boolean"
    },
    "numericPattern" : {
      "UNIX_LINES" : "int",
```


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```
      "CASE_INSENSITIVE" : "int",
      "COMMENTS" : "int",
      "MULTILINE" : "int",
      "LITERAL" : "int",
      "DOTALL" : "int",
      "UNICODE_CASE" : "int",
      "CANON_EQ" : "int",
      "UNICODE_CHARACTER_CLASS" : "int",
      "serialVersionUID" : "long",
      "pattern" : "String",
      "flags" : "int",
      "compiled" : "boolean",
      "normalizedPattern" : "String",
      "root" : {
        "next" : { }
      },
      "matchRoot" : {
        "next" : { }
      },
      "buffer" : "[]",
      "namedGroups" : { },
      "groupNodes" : "[]",
      "temp" : "[]",
      "capturingGroupCount" : "int",
      "localCount" : "int",
      "cursor" : "int",
      "patternLength" : "int",
      "hasSupplementary" : "boolean",
      "MAX_REPS" : "int",
      "GREEDY" : "int",
      "LAZY" : "int",
      "POSSESSIVE" : "int",
      "INDEPENDENT" : "int",
      "lookbehindEnd" : {
        "next" : { }
      },
      "accept" : {
        "next" : { }
      },
      "lastAccept" : {
        "next" : { }
      },
      "$assertionsDisabled" : "boolean"
    },
    "protocolNumber" : "int",
    "uuid" : "String",
    "applicationName" : "String"
  } ],
  "displayName" : "String",
  "isGroup" : "Boolean",
  "applicationMembers" : [ ],
  "hashKey" : "String",
  "applicationBookName" : "String",
  "parentApplicationGroups" : {
    "serialVersionUID" : "long",
    "DEFAULT_CAPACITY" : "int",
    "EMPTY_ELEMENTDATA" : "[]",
    "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
    "elementData" : "[]",
    "size" : "int",
    "MAX_ARRAY_SIZE" : "int"
  }
 } ]
} ],
```


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```
    "id" : "Integer",
    "domain-id" : "Integer",
    "last-modified-by-user-name" : "String",
    "created-time" : "Date",
    "edit-version" : "Integer",
    "version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "last-successfully-deployed-time" : "Date",
    "policy-position" : [ "DEVICE", "PRE", "POST" ],
    "description" : "String",
    "name" : "String",
    "policy-order" : "Double",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "enable-auto-arp" : "Boolean",
    "proxy-arp-managed" : "Boolean",
    "uri" : "String",
    "locked-for-edit" : "Boolean"
  }
}
```


Get NAT Detailed Policy By ID

This request is used to get the NAT detailed policy by its ID.

URI	/api/juniper/sd/policy-management/nat/policies/detailedPolicy/{policy-id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.nat.policy+xml;version=1;q=0.01 application/vnd.juniper.sd.policy-management.nat.policy+json;version=1;q=0.01
Access-Control	manageNATPolicy

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Sample JSON Output:


```
{
  "policy" : {
    "nat-policy-details" : [ {
      "version" : "Integer",
      "created-time" : "Date",
      "last-modified-by-user-name" : "String",
      "edit-version" : "Integer",
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
      "translated-packet" : {
        "poxy-arp-entries" : {
          "arp-entry" : [ {
            "is-overridden" : "Boolean",
            "address" : {
              "address_refs" : [ {
                "members" : [ ],
                "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String",
                "associatedMetadata" : "String",
                "parentAddressGroups" : {
                  "serialVersionUID" : "long",
                  "DEFAULT_CAPACITY" : "int",
                  "EMPTY_ELEMENTDATA" : "[]",
                  "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
                  "elementData" : "[]",
                  "size" : "int",
                  "MAX_ARRAY_SIZE" : "int"
                }
              } ],
              "id" : "String",
              "uuid" : "String",
              "domain-id" : "Integer",
              "name" : "String",
              "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
              "variable-id" : "Integer",
              "uri" : "String"
            },
            "intf-value" : "String",
            "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
            "recommended-intf-value" : "String",
            "range-ip" : "String",
            "uri" : "String"
          } ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "translated-traffic-match-type" : [ "NO_TRANSLATION", "INTERFACE", "POOL", "INET", "PREFIX" ],
        "persistent-nat-setting" : {
          "address-mapping" : "Boolean",
```


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```
        "max_session_number" : "Integer",
        "inactivity-timeout" : "Integer",
        "uri" : "String",
        "persistent-nat-type" : [ "NONE", "ANY_REMOTE_HOST", "TARGET_HOST",
"TARGET_HOST_PORT" ]
       },
       "mapped-port" : "String",
       "egress-interface" : {
        "egress-interface" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
       },
       "translated-address" : {
        "address_refs" : [ {
         "members" : [ ],
         "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
         "ipAddress" : "String",
         "hostName" : "String",
         "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
         "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
         "zone" : "String",
         "variableId" : "Integer",
         "hashKey" : "String",
         "addressBookName" : "String",
         "associatedMetadata" : "String",
         "parentAddressGroups" : {
          "serialVersionUID" : "long",
          "DEFAULT_CAPACITY" : "int",
          "EMPTY_ELEMENTDATA" : "[]",
          "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
          "elementData" : "[]",
          "size" : "int",
          "MAX_ARRAY_SIZE" : "int"
         }
        } ],
        "id" : "String",
        "uuid" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
       },
       "routing-instance-name" : "String",
       "proxy-arp-enabled" : "Boolean",
       "pool-addresses" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
       },
       "uri" : "String"
      },
      "id" : "Integer",
      "description" : "String",
      "name" : "String",
      "services" : {
       "service-reference" : [ {
        "id" : "String",
        "domain-id" : "Integer",
```


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```
        "name" : "String",
        "is-group" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String",
      "service-details" : [ {
        "service_refs" : [ {
          "protocols" : [ {
            "name" : "String",
            "description" : "String",
            "alg" : "String",
            "srcPort" : "String",
            "dstPort" : "String",
            "disableTimeout" : "boolean",
            "inactivityTimeout" : "Integer",
            "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
            "rpcProgramNumber" : "String",
            "icmpCode" : "int",
            "icmpType" : "int",
            "sunrpcProtocolType" : [ "TCP", "UDP" ],
            "msrpcProtocolType" : [ "TCP", "UDP" ],
            "UUIDPattern" : {
              "UNIX_LINES" : "int",
              "CASE_INSENSITIVE" : "int",
              "COMMENTS" : "int",
              "MULTILINE" : "int",
              "LITERAL" : "int",
              "DOTALL" : "int",
              "UNICODE_CASE" : "int",
              "CANON_EQ" : "int",
              "UNICODE_CHARACTER_CLASS" : "int",
              "serialVersionUID" : "long",
              "pattern" : "String",
              "flags" : "int",
              "compiled" : "boolean",
              "normalizedPattern" : "String",
              "root" : {
                "next" : { }
              },
              "matchRoot" : {
                "next" : { }
              },
              "buffer" : "[]",
              "namedGroups" : { },
              "groupNodes" : "[]",
              "temp" : "[]",
              "capturingGroupCount" : "int",
              "localCount" : "int",
              "cursor" : "int",
              "patternLength" : "int",
              "hasSupplementary" : "boolean",
              "MAX_REPS" : "int",
              "GREEDY" : "int",
              "LAZY" : "int",
              "POSSESSIVE" : "int",
              "INDEPENDENT" : "int",
              "lookbehindEnd" : {
                "next" : { }
              },
              "accept" : {
                "next" : { }
              },
              "lastAccept" : {
```


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```
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "numericPattern" : {
    "UNIX_LINES" : "int",
    "CASE_INSENSITIVE" : "int",
    "COMMENTS" : "int",
    "MULTILINE" : "int",
    "LITERAL" : "int",
    "DOTALL" : "int",
    "UNICODE_CASE" : "int",
    "CANON_EQ" : "int",
    "UNICODE_CHARACTER_CLASS" : "int",
    "serialVersionUID" : "long",
    "pattern" : "String",
    "flags" : "int",
    "compiled" : "boolean",
    "normalizedPattern" : "String",
    "root" : {
      "next" : { }
    },
    "matchRoot" : {
      "next" : { }
    },
    "buffer" : "[]",
    "namedGroups" : { },
    "groupNodes" : "[]",
    "temp" : "[]",
    "capturingGroupCount" : "int",
    "localCount" : "int",
    "cursor" : "int",
    "patternLength" : "int",
    "hasSupplementary" : "boolean",
    "MAX_REPS" : "int",
    "GREEDY" : "int",
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String",
  "applicationName" : "String"
} ],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String",
"applicationBookName" : "String",
"parentApplicationGroups" : {
  "serialVersionUID" : "long",
  "DEFAULT_CAPACITY" : "int",
  "EMPTY_ELEMENTDATA" : "[]",
  "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
```


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```
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
           }
          } ],
          "uuid" : "String",
          "display_name" : "String",
          "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
          "description" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "is-group" : "Boolean",
          "uri" : "String"
         } ]
        },
        "nat-type" : [ "STATIC", "SOURCE", "DESTINATION" ],
        "original-packet" : {
         "src-port-sets" : {
          "reference" : [ {
           "id" : "Integer",
           "name" : "String",
           "domain-id" : "Integer",
           "uri" : "String"
          } ],
          "uri" : "String",
          "totalSize" : "Integer"
         },
         "protocol" : {
          "protocol-data" : [ {
           "id" : "Integer",
           "name" : "String",
           "domain-id" : "Integer",
           "value" : "String",
           "uri" : "String"
          } ],
          "uri" : "String",
          "totalSize" : "Integer"
         },
         "src-zone-sets" : {
          "reference" : [ {
           "id" : "Integer",
           "name" : "String",
           "domain-id" : "Integer",
           "uri" : "String"
          } ],
          "uri" : "String",
          "totalSize" : "Integer"
         },
         "src-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
         "src-address" : {
          "address-reference" : [ {
           "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
```


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```
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "dst-address" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "src-traffic-match-value" : {
```


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```
          "src-traffic-match-value" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "dst-ports" : "String",
        "proxy-arp-entry" : {
          "is-overridden" : "Boolean",
          "address" : {
            "address_refs" : [ {
              "members" : [ ],
              "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
              "ipAddress" : "String",
              "hostName" : "String",
              "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
              "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
              "zone" : "String",
              "variableId" : "Integer",
              "hashKey" : "String",
              "addressBookName" : "String",
              "associatedMetadata" : "String",
              "parentAddressGroups" : {
                "serialVersionUID" : "long",
                "DEFAULT_CAPACITY" : "int",
                "EMPTY_ELEMENTDATA" : "[]",
                "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
                "elementData" : "[]",
                "size" : "int",
                "MAX_ARRAY_SIZE" : "int"
              }
            } ],
            "id" : "String",
            "uuid" : "String",
            "domain-id" : "Integer",
            "name" : "String",
            "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "variable-id" : "Integer",
            "uri" : "String"
          },
          "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
          "intf-value" : "String",
          "recommended-intf-value" : "String",
          "range-ip" : "String",
          "uri" : "String"
        },
        "proxy-arp-enabled" : "Boolean",
        "dst-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
        "src-ports" : "String",
        "uri" : "String",
        "dst-traffic-match-value" : {
          "dst-traffic-match-value" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "dst-zone-sets" : {
          "reference" : [ {
            "id" : "Integer",
            "name" : "String",
            "domain-id" : "Integer",
            "uri" : "String"
          } ],
```


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```
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "dst-port-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      }
    },
    "rule-group-id" : "Integer",
    "rule-type" : [ "RULE", "RULEGROUP" ],
    "policy-id" : "Integer",
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "rule-order" : "Integer",
    "uri" : "String",
    "serviceDetails" : [ {
      "protocols" : [ {
        "name" : "String",
        "description" : "String",
        "alg" : "String",
        "srcPort" : "String",
        "dstPort" : "String",
        "disableTimeout" : "boolean",
        "inactivityTimeout" : "Integer",
        "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpcProgramNumber" : "String",
        "icmpCode" : "int",
        "icmpType" : "int",
        "sunrpcProtocolType" : [ "TCP", "UDP" ],
        "msrpcProtocolType" : [ "TCP", "UDP" ],
        "UUIDPattern" : {
          "UNIX_LINES" : "int",
          "CASE_INSENSITIVE" : "int",
          "COMMENTS" : "int",
          "MULTILINE" : "int",
          "LITERAL" : "int",
          "DOTALL" : "int",
          "UNICODE_CASE" : "int",
          "CANON_EQ" : "int",
          "UNICODE_CHARACTER_CLASS" : "int",
          "serialVersionUID" : "long",
          "pattern" : "String",
          "flags" : "int",
          "compiled" : "boolean",
          "normalizedPattern" : "String",
          "root" : {
            "next" : { }
          },
          "matchRoot" : {
            "next" : { }
          },
          "buffer" : "[]",
          "namedGroups" : { },
          "groupNodes" : "[]",
          "temp" : "[]",
          "capturingGroupCount" : "int",
          "localCount" : "int",
```


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```
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
```


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```
        },
        "protocolNumber" : "int",
        "uuid" : "String",
        "applicationName" : "String"
      } ],
      "displayName" : "String",
      "isGroup" : "Boolean",
      "applicationMembers" : [ ],
      "hashKey" : "String",
      "applicationBookName" : "String",
      "parentApplicationGroups" : {
        "serialVersionUID" : "long",
        "DEFAULT_CAPACITY" : "int",
        "EMPTY_ELEMENTDATA" : "[]",
        "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
        "elementData" : "[]",
        "size" : "int",
        "MAX_ARRAY_SIZE" : "int"
      }
    } ]
  } ],
  "id" : "Integer",
  "domain-id" : "Integer",
  "last-modified-by-user-name" : "String",
  "created-time" : "Date",
  "edit-version" : "Integer",
  "version" : "Integer",
  "created-by-user-name" : "String",
  "last-modified-time" : "Date",
  "last-successfully-deployed-time" : "Date",
  "policy-position" : [ "DEVICE", "PRE", "POST" ],
  "description" : "String",
  "name" : "String",
  "policy-order" : "Double",
  "policy-state" : [ "DRAFT", "FINAL" ],
  "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
  "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
  "enable-auto-arp" : "Boolean",
  "proxy-arp-managed" : "Boolean",
  "uri" : "String",
  "locked-for-edit" : "Boolean"
 }
}
```


Create NAT Policy

This request is used to create a new NAT policy.

URI	/api/juniper/sd/policy-management/nat/policies
HTTP method	POST

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Content-Type	application/vnd.juniper.sd.policy-management.nat.policy+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.policy-management.nat.policy+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.policy-management.nat.policy+xml;version=1;q=0.01 application/vnd.juniper.sd.policy-management.nat.policy+json;version=1;q=0.01
Access-Control	createNATPolicy

Sample JSON Input


```
{
  "policy" : {
    "nat-policy-details" : [ {
      "version" : "Integer",
      "edit-version" : "Integer",
      "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
      "translated-packet" : {
        "poxy-arp-entries" : {
          "arp-entry" : [ {
            "is-overridden" : "Boolean",
            "address" : {
              "address_refs" : [ {
                "members" : [ ],
                "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String",
                "associatedMetadata" : "String",
                "parentAddressGroups" : {
                  "serialVersionUID" : "long",
                  "DEFAULT_CAPACITY" : "int",
                  "EMPTY_ELEMENTDATA" : "[]",
                  "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
                  "elementData" : "[]",
                  "size" : "int",
                  "MAX_ARRAY_SIZE" : "int"
                }
              } ],
              "id" : "String",
              "uuid" : "String",
              "name" : "String",
              "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
              "variable-id" : "Integer"
            },
            "intf-value" : "String",
```


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```
          "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
          "recommended-intf-value" : "String",
          "range-ip" : "String"
         } ],
         "totalSize" : "Integer"
        },
        "translated-traffic-match-type" : [ "NO_TRANSLATION", "INTERFACE", "POOL", "INET", "PREFIX" ],
        "persistent-nat-setting" : {
         "address-mapping" : "Boolean",
         "max_session_number" : "Integer",
         "inactivity-timeout" : "Integer",
         "persistent-nat-type" : [ "NONE", "ANY_REMOTE_HOST", "TARGET_HOST",
"TARGET_HOST_PORT" ]
        },
        "mapped-port" : "String",
        "egress-interface" : {
         "egress-interface" : [ "String" ],
         "totalSize" : "Integer"
        },
        "translated-address" : {
         "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
           "serialVersionUID" : "long",
           "DEFAULT_CAPACITY" : "int",
           "EMPTY_ELEMENTDATA" : "[]",
           "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
           "elementData" : "[]",
           "size" : "int",
           "MAX_ARRAY_SIZE" : "int"
          }
         } ],
         "id" : "String",
         "uuid" : "String",
         "name" : "String",
         "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
         "variable-id" : "Integer"
        },
        "routing-instance-name" : "String",
        "proxy-arp-enabled" : "Boolean",
        "pool-addresses" : {
         "id" : "Integer",
         "name" : "String"
        }
       },
       "id" : "Integer",
       "description" : "String",
       "name" : "String",
       "services" : {
```


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```
        "service-reference" : [ {
          "id" : "String",
          "name" : "String",
          "is-group" : "Boolean"
        } ],
        "service-details" : [ {
          "service_refs" : [ {
            "protocols" : [ {
              "name" : "String",
              "description" : "String",
              "alg" : "String",
              "srcPort" : "String",
              "dstPort" : "String",
              "disableTimeout" : "boolean",
              "inactivityTimeout" : "Integer",
              "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
              "rpcProgramNumber" : "String",
              "icmpCode" : "int",
              "icmpType" : "int",
              "sunrpcProtocolType" : [ "TCP", "UDP" ],
              "msrpcProtocolType" : [ "TCP", "UDP" ],
              "UUIDPattern" : {
                "UNIX_LINES" : "int",
                "CASE_INSENSITIVE" : "int",
                "COMMENTS" : "int",
                "MULTILINE" : "int",
                "LITERAL" : "int",
                "DOTALL" : "int",
                "UNICODE_CASE" : "int",
                "CANON_EQ" : "int",
                "UNICODE_CHARACTER_CLASS" : "int",
                "serialVersionUID" : "long",
                "pattern" : "String",
                "flags" : "int",
                "compiled" : "boolean",
                "normalizedPattern" : "String",
                "root" : {
                  "next" : { }
                },
                "matchRoot" : {
                  "next" : { }
                },
                "buffer" : "[]",
                "namedGroups" : { },
                "groupNodes" : "[]",
                "temp" : "[]",
                "capturingGroupCount" : "int",
                "localCount" : "int",
                "cursor" : "int",
                "patternLength" : "int",
                "hasSupplementary" : "boolean",
                "MAX_REPS" : "int",
                "GREEDY" : "int",
                "LAZY" : "int",
                "POSSESSIVE" : "int",
                "INDEPENDENT" : "int",
                "lookbehindEnd" : {
                  "next" : { }
                },
                "accept" : {
                  "next" : { }
                },
                "lastAccept" : {
```


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```
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "numericPattern" : {
    "UNIX_LINES" : "int",
    "CASE_INSENSITIVE" : "int",
    "COMMENTS" : "int",
    "MULTILINE" : "int",
    "LITERAL" : "int",
    "DOTALL" : "int",
    "UNICODE_CASE" : "int",
    "CANON_EQ" : "int",
    "UNICODE_CHARACTER_CLASS" : "int",
    "serialVersionUID" : "long",
    "pattern" : "String",
    "flags" : "int",
    "compiled" : "boolean",
    "normalizedPattern" : "String",
    "root" : {
      "next" : { }
    },
    "matchRoot" : {
      "next" : { }
    },
    "buffer" : "[]",
    "namedGroups" : { },
    "groupNodes" : "[]",
    "temp" : "[]",
    "capturingGroupCount" : "int",
    "localCount" : "int",
    "cursor" : "int",
    "patternLength" : "int",
    "hasSupplementary" : "boolean",
    "MAX_REPS" : "int",
    "GREEDY" : "int",
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String",
  "applicationName" : "String"
} ],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String",
"applicationBookName" : "String",
"parentApplicationGroups" : {
  "serialVersionUID" : "long",
  "DEFAULT_CAPACITY" : "int",
  "EMPTY_ELEMENTDATA" : "[]",
  "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
```


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```
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "uuid" : "String",
        "display_name" : "String",
        "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "description" : "String",
        "name" : "String",
        "is-group" : "Boolean"
      } ]
    },
    "nat-type" : [ "STATIC", "SOURCE", "DESTINATION" ],
    "original-packet" : {
      "src-port-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "protocol" : {
        "protocol-data" : [ {
          "id" : "Integer",
          "name" : "String",
          "value" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "src-zone-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "src-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
      "src-address" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
```


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```
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
        } ],
        "totalSize" : "Integer"
      },
      "dst-address" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
        } ],
        "totalSize" : "Integer"
      },
      "src-traffic-match-value" : {
        "src-traffic-match-value" : [ "String" ],
        "totalSize" : "Integer"
      },
      "dst-ports" : "String",
      "proxy-arp-entry" : {
        "is-overridden" : "Boolean",
        "address" : {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
```


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```
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
        },
        "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
        "intf-value" : "String",
        "recommended-intf-value" : "String",
        "range-ip" : "String"
      },
      "proxy-arp-enabled" : "Boolean",
      "dst-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
      "src-ports" : "String",
      "dst-traffic-match-value" : {
        "dst-traffic-match-value" : [ "String" ],
        "totalSize" : "Integer"
      },
      "dst-zone-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "dst-port-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String"
        } ],
        "totalSize" : "Integer"
      }
    },
    "rule-group-id" : "Integer",
    "rule-type" : [ "RULE", "RULEGROUP" ],
    "policy-id" : "Integer",
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "rule-order" : "Integer",
    "serviceDetails" : [ {
      "protocols" : [ {
        "name" : "String",
        "description" : "String",
        "alg" : "String",
        "srcPort" : "String",
        "dstPort" : "String",
        "disableTimeout" : "boolean",
        "inactivityTimeout" : "Integer",
```


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```
        "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpcProgramNumber" : "String",
        "icmpCode" : "int",
        "icmpType" : "int",
        "sunrpcProtocolType" : [ "TCP", "UDP" ],
        "msrpcProtocolType" : [ "TCP", "UDP" ],
        "UUIDPattern" : {
          "UNIX_LINES" : "int",
          "CASE_INSENSITIVE" : "int",
          "COMMENTS" : "int",
          "MULTILINE" : "int",
          "LITERAL" : "int",
          "DOTALL" : "int",
          "UNICODE_CASE" : "int",
          "CANON_EQ" : "int",
          "UNICODE_CHARACTER_CLASS" : "int",
          "serialVersionUID" : "long",
          "pattern" : "String",
          "flags" : "int",
          "compiled" : "boolean",
          "normalizedPattern" : "String",
          "root" : {
            "next" : { }
          },
          "matchRoot" : {
            "next" : { }
          },
          "buffer" : "[]",
          "namedGroups" : { },
          "groupNodes" : "[]",
          "temp" : "[]",
          "capturingGroupCount" : "int",
          "localCount" : "int",
          "cursor" : "int",
          "patternLength" : "int",
          "hasSupplementary" : "boolean",
          "MAX_REPS" : "int",
          "GREEDY" : "int",
          "LAZY" : "int",
          "POSSESSIVE" : "int",
          "INDEPENDENT" : "int",
          "lookbehindEnd" : {
            "next" : { }
          },
          "accept" : {
            "next" : { }
          },
          "lastAccept" : {
            "next" : { }
          },
          "$assertionsDisabled" : "boolean"
        },
        "numericPattern" : {
          "UNIX_LINES" : "int",
          "CASE_INSENSITIVE" : "int",
          "COMMENTS" : "int",
          "MULTILINE" : "int",
          "LITERAL" : "int",
          "DOTALL" : "int",
          "UNICODE_CASE" : "int",
          "CANON_EQ" : "int",
          "UNICODE_CHARACTER_CLASS" : "int",
          "serialVersionUID" : "long",
```


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```
        "pattern" : "String",
        "flags" : "int",
        "compiled" : "boolean",
        "normalizedPattern" : "String",
        "root" : {
          "next" : { }
        },
        "matchRoot" : {
          "next" : { }
        },
        "buffer" : "[]",
        "namedGroups" : { },
        "groupNodes" : "[]",
        "temp" : "[]",
        "capturingGroupCount" : "int",
        "localCount" : "int",
        "cursor" : "int",
        "patternLength" : "int",
        "hasSupplementary" : "boolean",
        "MAX_REPS" : "int",
        "GREEDY" : "int",
        "LAZY" : "int",
        "POSSESSIVE" : "int",
        "INDEPENDENT" : "int",
        "lookbehindEnd" : {
          "next" : { }
        },
        "accept" : {
          "next" : { }
        },
        "lastAccept" : {
          "next" : { }
        },
        "$assertionsDisabled" : "boolean"
      },
      "protocolNumber" : "int",
      "uuid" : "String",
      "applicationName" : "String"
    } ],
    "displayName" : "String",
    "isGroup" : "Boolean",
    "applicationMembers" : [ ],
    "hashKey" : "String",
    "applicationBookName" : "String",
    "parentApplicationGroups" : {
      "serialVersionUID" : "long",
      "DEFAULT_CAPACITY" : "int",
      "EMPTY_ELEMENTDATA" : "[]",
      "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
      "elementData" : "[]",
      "size" : "int",
      "MAX_ARRAY_SIZE" : "int"
    }
  } ]
} ],
"id" : "Integer",
"edit-version" : "Integer",
"version" : "Integer",
"last-successfully-deployed-time" : "Date",
"policy-position" : [ "DEVICE", "PRE", "POST" ],
"description" : "String",
"name" : "String",
"policy-order" : "Double",
"policy-state" : [ "DRAFT", "FINAL" ],
```


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```
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "enable-auto-arp" : "Boolean",
    "proxy-arp-managed" : "Boolean",
    "locked-for-edit" : "Boolean"
  }
}
```


Sample JSON Output:


```
{
  "policy" : {
    "nat-policy-details" : [ {
      "version" : "Integer",
      "created-time" : "Date",
      "last-modified-by-user-name" : "String",
      "edit-version" : "Integer",
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
      "translated-packet" : {
        "poxy-arp-entries" : {
          "arp-entry" : [ {
            "is-overridden" : "Boolean",
            "address" : {
              "address_refs" : [ {
                "members" : [ ],
                "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String",
                "associatedMetadata" : "String",
                "parentAddressGroups" : {
                  "serialVersionUID" : "long",
                  "DEFAULT_CAPACITY" : "int",
                  "EMPTY_ELEMENTDATA" : "[]",
                  "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
                  "elementData" : "[]",
                  "size" : "int",
                  "MAX_ARRAY_SIZE" : "int"
                }
              } ],
              "id" : "String",
              "uuid" : "String",
              "domain-id" : "Integer",
              "name" : "String",
              "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
              "variable-id" : "Integer",
              "uri" : "String"
            },
            "intf-value" : "String",
            "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
            "recommended-intf-value" : "String",
            "range-ip" : "String",
```


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```
        "uri" : "String"
       } ],
       "uri" : "String",
       "totalSize" : "Integer"
      },
      "translated-traffic-match-type" : [ "NO_TRANSLATION", "INTERFACE", "POOL", "INET", "PREFIX" ],
      "persistent-nat-setting" : {
       "address-mapping" : "Boolean",
       "max_session_number" : "Integer",
       "inactivity-timeout" : "Integer",
       "uri" : "String",
       "persistent-nat-type" : [ "NONE", "ANY_REMOTE_HOST", "TARGET_HOST",
"TARGET_HOST_PORT" ]
      },
      "mapped-port" : "String",
      "egress-interface" : {
       "egress-interface" : [ "String" ],
       "uri" : "String",
       "totalSize" : "Integer"
      },
      "translated-address" : {
       "address_refs" : [ {
        "members" : [ ],
        "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "ipAddress" : "String",
        "hostName" : "String",
        "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
        "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String",
        "associatedMetadata" : "String",
        "parentAddressGroups" : {
         "serialVersionUID" : "long",
         "DEFAULT_CAPACITY" : "int",
         "EMPTY_ELEMENTDATA" : "[]",
         "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
         "elementData" : "[]",
         "size" : "int",
         "MAX_ARRAY_SIZE" : "int"
        }
       } ],
       "id" : "String",
       "uuid" : "String",
       "domain-id" : "Integer",
       "name" : "String",
       "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
       "variable-id" : "Integer",
       "uri" : "String"
      },
      "routing-instance-name" : "String",
      "proxy-arp-enabled" : "Boolean",
      "pool-addresses" : {
       "id" : "Integer",
       "name" : "String",
       "domain-id" : "Integer",
       "uri" : "String"
      },
```


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```
      "uri" : "String"
    },
    "id" : "Integer",
    "description" : "String",
    "name" : "String",
    "services" : {
      "service-reference" : [ {
        "id" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String",
      "service-details" : [ {
        "service_refs" : [ {
          "protocols" : [ {
            "name" : "String",
            "description" : "String",
            "alg" : "String",
            "srcPort" : "String",
            "dstPort" : "String",
            "disableTimeout" : "boolean",
            "inactivityTimeout" : "Integer",
            "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
            "rpcProgramNumber" : "String",
            "icmpCode" : "int",
            "icmpType" : "int",
            "sunrpcProtocolType" : [ "TCP", "UDP" ],
            "msrpcProtocolType" : [ "TCP", "UDP" ],
            "UUIDPattern" : {
              "UNIX_LINES" : "int",
              "CASE_INSENSITIVE" : "int",
              "COMMENTS" : "int",
              "MULTILINE" : "int",
              "LITERAL" : "int",
              "DOTALL" : "int",
              "UNICODE_CASE" : "int",
              "CANON_EQ" : "int",
              "UNICODE_CHARACTER_CLASS" : "int",
              "serialVersionUID" : "long",
              "pattern" : "String",
              "flags" : "int",
              "compiled" : "boolean",
              "normalizedPattern" : "String",
              "root" : {
                "next" : { }
              },
              "matchRoot" : {
                "next" : { }
              },
              "buffer" : "[]",
              "namedGroups" : { },
              "groupNodes" : "[]",
              "temp" : "[]",
              "capturingGroupCount" : "int",
              "localCount" : "int",
              "cursor" : "int",
              "patternLength" : "int",
              "hasSupplementary" : "boolean",
              "MAX_REPS" : "int",
              "GREEDY" : "int",
              "LAZY" : "int",
```


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```
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "numericPattern" : {
    "UNIX_LINES" : "int",
    "CASE_INSENSITIVE" : "int",
    "COMMENTS" : "int",
    "MULTILINE" : "int",
    "LITERAL" : "int",
    "DOTALL" : "int",
    "UNICODE_CASE" : "int",
    "CANON_EQ" : "int",
    "UNICODE_CHARACTER_CLASS" : "int",
    "serialVersionUID" : "long",
    "pattern" : "String",
    "flags" : "int",
    "compiled" : "boolean",
    "normalizedPattern" : "String",
    "root" : {
      "next" : { }
    },
    "matchRoot" : {
      "next" : { }
    },
    "buffer" : "[]",
    "namedGroups" : { },
    "groupNodes" : "[]",
    "temp" : "[]",
    "capturingGroupCount" : "int",
    "localCount" : "int",
    "cursor" : "int",
    "patternLength" : "int",
    "hasSupplementary" : "boolean",
    "MAX_REPS" : "int",
    "GREEDY" : "int",
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String",
  "applicationName" : "String"
} ],
"displayName" : "String",
```


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```
        "isGroup" : "Boolean",
        "applicationMembers" : [ ],
        "hashKey" : "String",
        "applicationBookName" : "String",
        "parentApplicationGroups" : {
          "serialVersionUID" : "long",
          "DEFAULT_CAPACITY" : "int",
          "EMPTY_ELEMENTDATA" : "[]",
          "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
          "elementData" : "[]",
          "size" : "int",
          "MAX_ARRAY_SIZE" : "int"
        }
      } ],
      "uuid" : "String",
      "display_name" : "String",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "description" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "is-group" : "Boolean",
      "uri" : "String"
    } ]
  },
  "nat-type" : [ "STATIC", "SOURCE", "DESTINATION" ],
  "original-packet" : {
    "src-port-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "protocol" : {
      "protocol-data" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "value" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "src-zone-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "src-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
    "src-address" : {
      "address-reference" : [ {
        "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
```


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```
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "dst-address" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
```


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```
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "src-traffic-match-value" : {
        "src-traffic-match-value" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "dst-ports" : "String",
      "proxy-arp-entry" : {
        "is-overridden" : "Boolean",
        "address" : {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        },
        "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
        "intf-value" : "String",
        "recommended-intf-value" : "String",
        "range-ip" : "String",
        "uri" : "String"
      },
      "proxy-arp-enabled" : "Boolean",
      "dst-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
      "src-ports" : "String",
      "uri" : "String",
      "dst-traffic-match-value" : {
        "dst-traffic-match-value" : [ "String" ],
        "uri" : "String",
```


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```
      "totalSize" : "Integer"
    },
    "dst-zone-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "dst-port-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    }
  },
  "rule-group-id" : "Integer",
  "rule-type" : [ "RULE", "RULEGROUP" ],
  "policy-id" : "Integer",
  "disabled" : "Boolean",
  "rulegroup-disabled" : "Boolean",
  "rule-order" : "Integer",
  "uri" : "String",
  "serviceDetails" : [ {
    "protocols" : [ {
      "name" : "String",
      "description" : "String",
      "alg" : "String",
      "srcPort" : "String",
      "dstPort" : "String",
      "disableTimeout" : "boolean",
      "inactivityTimeout" : "Integer",
      "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
      "rpcProgramNumber" : "String",
      "icmpCode" : "int",
      "icmpType" : "int",
      "sunrpcProtocolType" : [ "TCP", "UDP" ],
      "msrpcProtocolType" : [ "TCP", "UDP" ],
      "UUIDPattern" : {
        "UNIX_LINES" : "int",
        "CASE_INSENSITIVE" : "int",
        "COMMENTS" : "int",
        "MULTILINE" : "int",
        "LITERAL" : "int",
        "DOTALL" : "int",
        "UNICODE_CASE" : "int",
        "CANON_EQ" : "int",
        "UNICODE_CHARACTER_CLASS" : "int",
        "serialVersionUID" : "long",
        "pattern" : "String",
        "flags" : "int",
        "compiled" : "boolean",
        "normalizedPattern" : "String",
        "root" : {
          "next" : { }
        },
```


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```
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
```


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```
            "next" : { }
          },
          "accept" : {
            "next" : { }
          },
          "lastAccept" : {
            "next" : { }
          },
          "$assertionsDisabled" : "boolean"
        },
        "protocolNumber" : "int",
        "uuid" : "String",
        "applicationName" : "String"
      } ],
      "displayName" : "String",
      "isGroup" : "Boolean",
      "applicationMembers" : [ ],
      "hashKey" : "String",
      "applicationBookName" : "String",
      "parentApplicationGroups" : {
        "serialVersionUID" : "long",
        "DEFAULT_CAPACITY" : "int",
        "EMPTY_ELEMENTDATA" : "[]",
        "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
        "elementData" : "[]",
        "size" : "int",
        "MAX_ARRAY_SIZE" : "int"
      }
    } ]
  } ],
  "id" : "Integer",
  "domain-id" : "Integer",
  "last-modified-by-user-name" : "String",
  "created-time" : "Date",
  "edit-version" : "Integer",
  "version" : "Integer",
  "created-by-user-name" : "String",
  "last-modified-time" : "Date",
  "last-successfully-deployed-time" : "Date",
  "policy-position" : [ "DEVICE", "PRE", "POST" ],
  "description" : "String",
  "name" : "String",
  "policy-order" : "Double",
  "policy-state" : [ "DRAFT", "FINAL" ],
  "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
  "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
  "enable-auto-arp" : "Boolean",
  "proxy-arp-managed" : "Boolean",
  "uri" : "String",
  "locked-for-edit" : "Boolean"
 }
}
```


Modify NAT Policy

This request is used to modify an existing NAT policy. This operation is a full replace and therefore, you must provide all the basic information.

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URI	/api/juniper/sd/policy-management/nat/policies/{policy-id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.policy-management.nat.policy+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.policy-management.nat.policy+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.policy-management.nat.policy+xml;version=1;q=0.01 application/vnd.juniper.sd.policy-management.nat.policy+json;version=1;q=0.01
Access-Control	modifyNATPolicy

Sample JSON Input


```
{
  "policy" : {
    "nat-policy-details" : [ {
      "version" : "Integer",
      "edit-version" : "Integer",
      "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
      "translated-packet" : {
        "poxy-arp-entries" : {
          "arp-entry" : [ {
            "is-overridden" : "Boolean",
            "address" : {
              "address_refs" : [ {
                "members" : [ ],
                "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String",
                "associatedMetadata" : "String",
                "parentAddressGroups" : {
                  "serialVersionUID" : "long",
                  "DEFAULT_CAPACITY" : "int",
                  "EMPTY_ELEMENTDATA" : "[]",
                  "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
                  "elementData" : "[]",
                  "size" : "int",
                  "MAX_ARRAY_SIZE" : "int"
                }
              } ],
```


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```
            "id" : "String",
            "uuid" : "String",
            "name" : "String",
            "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "variable-id" : "Integer"
          },
          "intf-value" : "String",
          "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
          "recommended-intf-value" : "String",
          "range-ip" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "translated-traffic-match-type" : [ "NO_TRANSLATION", "INTERFACE", "POOL", "INET", "PREFIX" ],
      "persistent-nat-setting" : {
        "address-mapping" : "Boolean",
        "max_session_number" : "Integer",
        "inactivity-timeout" : "Integer",
        "persistent-nat-type" : [ "NONE", "ANY_REMOTE_HOST", "TARGET_HOST",
"TARGET_HOST_PORT" ]
      },
      "mapped-port" : "String",
      "egress-interface" : {
        "egress-interface" : [ "String" ],
        "totalSize" : "Integer"
      },
      "translated-address" : {
        "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "id" : "String",
        "uuid" : "String",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer"
      },
      "routing-instance-name" : "String",
      "proxy-arp-enabled" : "Boolean",
```


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```
      "pool-addresses" : {
        "id" : "Integer",
        "name" : "String"
      }
    },
    "id" : "Integer",
    "description" : "String",
    "name" : "String",
    "services" : {
      "service-reference" : [ {
        "id" : "String",
        "name" : "String",
        "is-group" : "Boolean"
      } ],
      "service-details" : [ {
        "service_refs" : [ {
          "protocols" : [ {
            "name" : "String",
            "description" : "String",
            "alg" : "String",
            "srcPort" : "String",
            "dstPort" : "String",
            "disableTimeout" : "boolean",
            "inactivityTimeout" : "Integer",
            "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
            "rpcProgramNumber" : "String",
            "icmpCode" : "int",
            "icmpType" : "int",
            "sunrpcProtocolType" : [ "TCP", "UDP" ],
            "msrpcProtocolType" : [ "TCP", "UDP" ],
            "UUIDPattern" : {
              "UNIX_LINES" : "int",
              "CASE_INSENSITIVE" : "int",
              "COMMENTS" : "int",
              "MULTILINE" : "int",
              "LITERAL" : "int",
              "DOTALL" : "int",
              "UNICODE_CASE" : "int",
              "CANON_EQ" : "int",
              "UNICODE_CHARACTER_CLASS" : "int",
              "serialVersionUID" : "long",
              "pattern" : "String",
              "flags" : "int",
              "compiled" : "boolean",
              "normalizedPattern" : "String",
              "root" : {
                "next" : { }
              },
              "matchRoot" : {
                "next" : { }
              },
              "buffer" : "[]",
              "namedGroups" : { },
              "groupNodes" : "[]",
              "temp" : "[]",
              "capturingGroupCount" : "int",
              "localCount" : "int",
              "cursor" : "int",
              "patternLength" : "int",
              "hasSupplementary" : "boolean",
              "MAX_REPS" : "int",
              "GREEDY" : "int",
              "LAZY" : "int",
```


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```
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "numericPattern" : {
    "UNIX_LINES" : "int",
    "CASE_INSENSITIVE" : "int",
    "COMMENTS" : "int",
    "MULTILINE" : "int",
    "LITERAL" : "int",
    "DOTALL" : "int",
    "UNICODE_CASE" : "int",
    "CANON_EQ" : "int",
    "UNICODE_CHARACTER_CLASS" : "int",
    "serialVersionUID" : "long",
    "pattern" : "String",
    "flags" : "int",
    "compiled" : "boolean",
    "normalizedPattern" : "String",
    "root" : {
      "next" : { }
    },
    "matchRoot" : {
      "next" : { }
    },
    "buffer" : "[]",
    "namedGroups" : { },
    "groupNodes" : "[]",
    "temp" : "[]",
    "capturingGroupCount" : "int",
    "localCount" : "int",
    "cursor" : "int",
    "patternLength" : "int",
    "hasSupplementary" : "boolean",
    "MAX_REPS" : "int",
    "GREEDY" : "int",
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String",
  "applicationName" : "String"
} ],
"displayName" : "String",
```


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```
          "isGroup" : "Boolean",
          "applicationMembers" : [ ],
          "hashKey" : "String",
          "applicationBookName" : "String",
          "parentApplicationGroups" : {
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "uuid" : "String",
        "display_name" : "String",
        "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "description" : "String",
        "name" : "String",
        "is-group" : "Boolean"
      } ]
    },
    "nat-type" : [ "STATIC", "SOURCE", "DESTINATION" ],
    "original-packet" : {
      "src-port-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "protocol" : {
        "protocol-data" : [ {
          "id" : "Integer",
          "name" : "String",
          "value" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "src-zone-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "src-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
      "src-address" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
```


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```
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
           }
          } ],
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
         } ],
         "totalSize" : "Integer"
        },
        "dst-address" : {
         "address-reference" : [ {
          "address_refs" : [ {
           "members" : [ ],
           "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
           "ipAddress" : "String",
           "hostName" : "String",
           "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
           "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
           "zone" : "String",
           "variableId" : "Integer",
           "hashKey" : "String",
           "addressBookName" : "String",
           "associatedMetadata" : "String",
           "parentAddressGroups" : {
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
           }
          } ],
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
         } ],
         "totalSize" : "Integer"
        },
        "src-traffic-match-value" : {
         "src-traffic-match-value" : [ "String" ],
         "totalSize" : "Integer"
        },
        "dst-ports" : "String",
        "proxy-arp-entry" : {
         "is-overridden" : "Boolean",
         "address" : {
          "address_refs" : [ {
```


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```
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
        },
        "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
        "intf-value" : "String",
        "recommended-intf-value" : "String",
        "range-ip" : "String"
      },
      "proxy-arp-enabled" : "Boolean",
      "dst-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
      "src-ports" : "String",
      "dst-traffic-match-value" : {
        "dst-traffic-match-value" : [ "String" ],
        "totalSize" : "Integer"
      },
      "dst-zone-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "dst-port-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String"
        } ],
        "totalSize" : "Integer"
      }
    },
    "rule-group-id" : "Integer",
    "rule-type" : [ "RULE", "RULEGROUP" ],
    "policy-id" : "Integer",
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "rule-order" : "Integer",
```


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```
"serviceDetails" : [ {
  "protocols" : [ {
    "name" : "String",
    "description" : "String",
    "alg" : "String",
    "srcPort" : "String",
    "dstPort" : "String",
    "disableTimeout" : "boolean",
    "inactivityTimeout" : "Integer",
    "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
    "rpcProgramNumber" : "String",
    "icmpCode" : "int",
    "icmpType" : "int",
    "sunrpcProtocolType" : [ "TCP", "UDP" ],
    "msrpcProtocolType" : [ "TCP", "UDP" ],
    "UUIDPattern" : {
      "UNIX_LINES" : "int",
      "CASE_INSENSITIVE" : "int",
      "COMMENTS" : "int",
      "MULTILINE" : "int",
      "LITERAL" : "int",
      "DOTALL" : "int",
      "UNICODE_CASE" : "int",
      "CANON_EQ" : "int",
      "UNICODE_CHARACTER_CLASS" : "int",
      "serialVersionUID" : "long",
      "pattern" : "String",
      "flags" : "int",
      "compiled" : "boolean",
      "normalizedPattern" : "String",
      "root" : {
        "next" : { }
      },
      "matchRoot" : {
        "next" : { }
      },
      "buffer" : "[]",
      "namedGroups" : { },
      "groupNodes" : "[]",
      "temp" : "[]",
      "capturingGroupCount" : "int",
      "localCount" : "int",
      "cursor" : "int",
      "patternLength" : "int",
      "hasSupplementary" : "boolean",
      "MAX_REPS" : "int",
      "GREEDY" : "int",
      "LAZY" : "int",
      "POSSESSIVE" : "int",
      "INDEPENDENT" : "int",
      "lookbehindEnd" : {
        "next" : { }
      },
      "accept" : {
        "next" : { }
      },
      "lastAccept" : {
        "next" : { }
      },
      "$assertionsDisabled" : "boolean"
    },
    "numericPattern" : {
      "UNIX_LINES" : "int",
```


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```
      "CASE_INSENSITIVE" : "int",
      "COMMENTS" : "int",
      "MULTILINE" : "int",
      "LITERAL" : "int",
      "DOTALL" : "int",
      "UNICODE_CASE" : "int",
      "CANON_EQ" : "int",
      "UNICODE_CHARACTER_CLASS" : "int",
      "serialVersionUID" : "long",
      "pattern" : "String",
      "flags" : "int",
      "compiled" : "boolean",
      "normalizedPattern" : "String",
      "root" : {
        "next" : { }
      },
      "matchRoot" : {
        "next" : { }
      },
      "buffer" : "[]",
      "namedGroups" : { },
      "groupNodes" : "[]",
      "temp" : "[]",
      "capturingGroupCount" : "int",
      "localCount" : "int",
      "cursor" : "int",
      "patternLength" : "int",
      "hasSupplementary" : "boolean",
      "MAX_REPS" : "int",
      "GREEDY" : "int",
      "LAZY" : "int",
      "POSSESSIVE" : "int",
      "INDEPENDENT" : "int",
      "lookbehindEnd" : {
        "next" : { }
      },
      "accept" : {
        "next" : { }
      },
      "lastAccept" : {
        "next" : { }
      },
      "$assertionsDisabled" : "boolean"
    },
    "protocolNumber" : "int",
    "uuid" : "String",
    "applicationName" : "String"
  } ],
  "displayName" : "String",
  "isGroup" : "Boolean",
  "applicationMembers" : [ ],
  "hashKey" : "String",
  "applicationBookName" : "String",
  "parentApplicationGroups" : {
    "serialVersionUID" : "long",
    "DEFAULT_CAPACITY" : "int",
    "EMPTY_ELEMENTDATA" : "[]",
    "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
    "elementData" : "[]",
    "size" : "int",
    "MAX_ARRAY_SIZE" : "int"
  }
 } ]
} ],
```


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```
    "id" : "Integer",
    "edit-version" : "Integer",
    "version" : "Integer",
    "last-successfully-deployed-time" : "Date",
    "policy-position" : [ "DEVICE", "PRE", "POST" ],
    "description" : "String",
    "name" : "String",
    "policy-order" : "Double",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "enable-auto-arp" : "Boolean",
    "proxy-arp-managed" : "Boolean",
    "locked-for-edit" : "Boolean"
  }
}
```


Sample JSON Output:


```
{
  "policy" : {
    "nat-policy-details" : [ {
      "version" : "Integer",
      "created-time" : "Date",
      "last-modified-by-user-name" : "String",
      "edit-version" : "Integer",
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
      "translated-packet" : {
        "poxy-arp-entries" : {
          "arp-entry" : [ {
            "is-overridden" : "Boolean",
            "address" : {
              "address_refs" : [ {
                "members" : [ ],
                "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String",
                "associatedMetadata" : "String",
                "parentAddressGroups" : {
                  "serialVersionUID" : "long",
                  "DEFAULT_CAPACITY" : "int",
                  "EMPTY_ELEMENTDATA" : "[]",
                  "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
                  "elementData" : "[]",
                  "size" : "int",
                  "MAX_ARRAY_SIZE" : "int"
                }
              } ],
              "id" : "String",
              "uuid" : "String",
              "domain-id" : "Integer",
              "name" : "String",
              "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
```


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```
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "variable-id" : "Integer",
            "uri" : "String"
          },
          "intf-value" : "String",
          "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
          "recommended-intf-value" : "String",
          "range-ip" : "String",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "translated-traffic-match-type" : [ "NO_TRANSLATION", "INTERFACE", "POOL", "INET", "PREFIX" ],
      "persistent-nat-setting" : {
        "address-mapping" : "Boolean",
        "max_session_number" : "Integer",
        "inactivity-timeout" : "Integer",
        "uri" : "String",
        "persistent-nat-type" : [ "NONE", "ANY_REMOTE_HOST", "TARGET_HOST",
"TARGET_HOST_PORT" ]
      },
      "mapped-port" : "String",
      "egress-interface" : {
        "egress-interface" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "translated-address" : {
        "address_refs" : [ {
          "members" : [ ],
          "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String",
          "associatedMetadata" : "String",
          "parentAddressGroups" : {
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
          }
        } ],
        "id" : "String",
        "uuid" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      },
```


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```
      "routing-instance-name" : "String",
      "proxy-arp-enabled" : "Boolean",
      "pool-addresses" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      },
      "uri" : "String"
    },
    "id" : "Integer",
    "description" : "String",
    "name" : "String",
    "services" : {
      "service-reference" : [ {
        "id" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String",
      "service-details" : [ {
        "service_refs" : [ {
          "protocols" : [ {
            "name" : "String",
            "description" : "String",
            "alg" : "String",
            "srcPort" : "String",
            "dstPort" : "String",
            "disableTimeout" : "boolean",
            "inactivityTimeout" : "Integer",
            "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
            "rpcProgramNumber" : "String",
            "icmpCode" : "int",
            "icmpType" : "int",
            "sunrpcProtocolType" : [ "TCP", "UDP" ],
            "msrpcProtocolType" : [ "TCP", "UDP" ],
            "UUIDPattern" : {
              "UNIX_LINES" : "int",
              "CASE_INSENSITIVE" : "int",
              "COMMENTS" : "int",
              "MULTILINE" : "int",
              "LITERAL" : "int",
              "DOTALL" : "int",
              "UNICODE_CASE" : "int",
              "CANON_EQ" : "int",
              "UNICODE_CHARACTER_CLASS" : "int",
              "serialVersionUID" : "long",
              "pattern" : "String",
              "flags" : "int",
              "compiled" : "boolean",
              "normalizedPattern" : "String",
              "root" : {
                "next" : { }
              },
              "matchRoot" : {
                "next" : { }
              },
              "buffer" : "[]",
              "namedGroups" : { },
              "groupNodes" : "[]",
              "temp" : "[]",
```


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```
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
```


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```
          },
          "$assertionsDisabled" : "boolean"
        },
        "protocolNumber" : "int",
        "uuid" : "String",
        "applicationName" : "String"
      } ],
      "displayName" : "String",
      "isGroup" : "Boolean",
      "applicationMembers" : [ ],
      "hashKey" : "String",
      "applicationBookName" : "String",
      "parentApplicationGroups" : {
        "serialVersionUID" : "long",
        "DEFAULT_CAPACITY" : "int",
        "EMPTY_ELEMENTDATA" : "[]",
        "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
        "elementData" : "[]",
        "size" : "int",
        "MAX_ARRAY_SIZE" : "int"
      }
    } ],
    "uuid" : "String",
    "display_name" : "String",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "description" : "String",
    "domain-id" : "Integer",
    "name" : "String",
    "is-group" : "Boolean",
    "uri" : "String"
  } ]
},
"nat-type" : [ "STATIC", "SOURCE", "DESTINATION" ],
"original-packet" : {
  "src-port-sets" : {
    "reference" : [ {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  },
  "protocol" : {
    "protocol-data" : [ {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "value" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  },
  "src-zone-sets" : {
    "reference" : [ {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
```


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```
      },
      "src-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
      "src-address" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "dst-address" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
```


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```
            "MAX_ARRAY_SIZE" : "int"
           }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
         } ],
         "uri" : "String",
         "totalSize" : "Integer"
        },
        "src-traffic-match-value" : {
         "src-traffic-match-value" : [ "String" ],
         "uri" : "String",
         "totalSize" : "Integer"
        },
        "dst-ports" : "String",
        "proxy-arp-entry" : {
         "is-overridden" : "Boolean",
         "address" : {
          "address_refs" : [ {
           "members" : [ ],
           "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK",
"INTERNET", "WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
           "ipAddress" : "String",
           "hostName" : "String",
           "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
           "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
           "zone" : "String",
           "variableId" : "Integer",
           "hashKey" : "String",
           "addressBookName" : "String",
           "associatedMetadata" : "String",
           "parentAddressGroups" : {
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
           }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
         },
         "state" : [ "NEW", "MODIFY", "DELETED", "NOCHANGE" ],
         "intf-value" : "String",
         "recommended-intf-value" : "String",
         "range-ip" : "String",
         "uri" : "String"
```


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```
      },
      "proxy-arp-enabled" : "Boolean",
      "dst-traffic-match-type" : [ "Zone", "Interface", "Routing Instance" ],
      "src-ports" : "String",
      "uri" : "String",
      "dst-traffic-match-value" : {
        "dst-traffic-match-value" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "dst-zone-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "dst-port-sets" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      }
    },
    "rule-group-id" : "Integer",
    "rule-type" : [ "RULE", "RULEGROUP" ],
    "policy-id" : "Integer",
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "rule-order" : "Integer",
    "uri" : "String",
    "serviceDetails" : [ {
      "protocols" : [ {
        "name" : "String",
        "description" : "String",
        "alg" : "String",
        "srcPort" : "String",
        "dstPort" : "String",
        "disableTimeout" : "boolean",
        "inactivityTimeout" : "Integer",
        "protocolType" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpcProgramNumber" : "String",
        "icmpCode" : "int",
        "icmpType" : "int",
        "sunrpcProtocolType" : [ "TCP", "UDP" ],
        "msrpcProtocolType" : [ "TCP", "UDP" ],
        "UUIDPattern" : {
          "UNIX_LINES" : "int",
          "CASE_INSENSITIVE" : "int",
          "COMMENTS" : "int",
          "MULTILINE" : "int",
          "LITERAL" : "int",
          "DOTALL" : "int",
          "UNICODE_CASE" : "int",
          "CANON_EQ" : "int",
          "UNICODE_CHARACTER_CLASS" : "int",
```


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```
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
```


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```
            "patternLength" : "int",
            "hasSupplementary" : "boolean",
            "MAX_REPS" : "int",
            "GREEDY" : "int",
            "LAZY" : "int",
            "POSSESSIVE" : "int",
            "INDEPENDENT" : "int",
            "lookbehindEnd" : {
              "next" : { }
            },
            "accept" : {
              "next" : { }
            },
            "lastAccept" : {
              "next" : { }
            },
            "$assertionsDisabled" : "boolean"
          },
          "protocolNumber" : "int",
          "uuid" : "String",
          "applicationName" : "String"
        } ],
        "displayName" : "String",
        "isGroup" : "Boolean",
        "applicationMembers" : [ ],
        "hashKey" : "String",
        "applicationBookName" : "String",
        "parentApplicationGroups" : {
          "serialVersionUID" : "long",
          "DEFAULT_CAPACITY" : "int",
          "EMPTY_ELEMENTDATA" : "[]",
          "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
          "elementData" : "[]",
          "size" : "int",
          "MAX_ARRAY_SIZE" : "int"
        }
      } ]
    } ],
    "id" : "Integer",
    "domain-id" : "Integer",
    "last-modified-by-user-name" : "String",
    "created-time" : "Date",
    "edit-version" : "Integer",
    "version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "last-successfully-deployed-time" : "Date",
    "policy-position" : [ "DEVICE", "PRE", "POST" ],
    "description" : "String",
    "name" : "String",
    "policy-order" : "Double",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "enable-auto-arp" : "Boolean",
    "proxy-arp-managed" : "Boolean",
    "uri" : "String",
    "locked-for-edit" : "Boolean"
  }
}
```


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Delete NAT Policy

This request is used to delete an existing NAT policy. If the API require to have the X-CSRF value twice, the X-CSRF value from the login API result can be used twice to meet the requirements.

URI	/api/juniper/sd/policy-management/nat/policies/delete
HTTP method	POST
Content-Type	application/vnd.juniper.sd.bulk-delete+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.bulk-delete+json;version=1;charset=UTF-8
Accept-Type	None
Access-Control	deleteNATPolicy

Sample JSON Input

```
{
  "id-list" : {
    "ids" : [ "Integer" ]
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
</id-list>
```


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CHAPTER 3

IPS Policy Management RESTful Web Services

The following opertions can be performed using Secuirty Director IPS Policy Management RESTful Web Services

Assign Devices to the IPS Policy

This request is used to assign devices to a policy or remove devices from a policy. You must send a list of devices to add or remove from a device.

URI	/api/juniper/sd/policy-management/ips/policies/{policy-id}/assign-devices
HTTP method	POST
Content-Type	application/vnd.juniper.sd.policy-management.assign-devices+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.policy-management.assign-devices+json;version=2;charset=UTF-8
Accept-Type	None
Access-Control	assignDevicesIPSPolicy

Sample JSON Input

```
{
  "assign-devices" : {
    "add-list" : {
      "device" : [ {
        "id" : "Integer",
        "name" : "String"
      } ]
    },
    "delete-list" : {
      "device" : [ {
        "id" : "Integer",
        "name" : "String"
      } ]
    }
  }
```


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}

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<assign-devices>
  <add-list>
    <device>
      <id>Integer</id>
      <name>String</name>
    </device>
  </add-list>
  <delete-list>
    <device>
      <id>Integer</id>
      <name>String</name>
    </device>
  </delete-list>
</assign-devices>
```

Get All IPS Policies

This request is used to get all the IPS policies configured in Security Director.

URI	/api/juniper/sd/policy-management/ips/policies
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.ips.policies+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.ips.policies+json;version=2;q=0.02
Access-Control	viewIPSPolicy

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Sample JSON Output:


```
{
  "policies" : {
    "policy" : [ {
      "last-successfully-deployed-time" : "Date",
      "dirty-rule-count" : "Integer",
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "version" : "Integer",
      "sequence-number" : "Integer",
      "locked-for-edit" : "Boolean",
      "requesterId" : "String",
      "policy-position" : [ "DEVICE", "PRE", "POST" ],
      "id" : "Integer",
      "rule-count" : "Integer",
      "ips-policy-type" : [ "SIGNATURESET", "IPSBASIC", "IPSADVANCED", "NONE",
"NOT_CONFIGURED" ],
      "device-count" : "Integer",
      "device-list" : {
        "devices" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "description" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "edit-version" : "Integer",
      "created-time" : "Date",
      "policy-order" : "Double",
      "policy-state" : [ "DRAFT", "FINAL" ],
      "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
      "last-modified-by-user-name" : "String",
      "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
      "uri" : "String",
      "link" : "String",
      "has-OOB-changes" : "Boolean"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<policies>
  <policy>
    <last-successfully-deployed-time>Date</last-successfully-deployed-time>
    <dirty-rule-count>Integer</dirty-rule-count>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <version>Integer</version>
    <sequence-number>Integer</sequence-number>
    <locked-for-edit>Boolean</locked-for-edit>
    <requesterId>String</requesterId>
    <policy-position>DEVICE</policy-position>
    <policy-position>PRE</policy-position>
    <policy-position>POST</policy-position>
    <id>Integer</id>
```


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```
    <rule-count>Integer</rule-count>
    <ips-policy-type>SIGNATURESET</ips-policy-type>
    <ips-policy-type>IPSBASIC</ips-policy-type>
    <ips-policy-type>IPSADVANCED</ips-policy-type>
    <ips-policy-type>NONE</ips-policy-type>
    <ips-policy-type>NOT_CONFIGURED</ips-policy-type>
    <device-count>Integer</device-count>
    <device-list>
      <devices>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <uri>String</uri>
      </devices>
      <uri>String</uri>
    </device-list>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <edit-version>Integer</edit-version>
    <created-time>Date</created-time>
    <policy-order>Double</policy-order>
    <policy-state>DRAFT</policy-state>
    <policy-state>FINAL</policy-state>
    <policy-type>GLOBAL</policy-type>
    <policy-type>GROUP</policy-type>
    <policy-type>DEVICE</policy-type>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <publish-state>Not Published</publish-state>
    <publish-state>Partially Published</publish-state>
    <publish-state>Published</publish-state>
    <publish-state>Re-Publish Required</publish-state>
    <publish-state>Deleted</publish-state>
    <uri>String</uri>
    <link>String</link>
    <has-OOB-changes>Boolean</has-OOB-changes>
  </policy>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</policies>
```

Get IPS Policy By ID

This request is used to get the IPS policy details by its ID.

URI	/api/juniper/sd/policy-management/ips/policies/{policy-id}
HTTP method	GET
Content-Type	None

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Accept-Type	application/vnd.juniper.sd.policy-management.ips.policy+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.ips.policy+json;version=2;q=0.02
Access-Control	viewIPSPolicy

Sample JSON Output:


```
{
  "policy" : {
    "last-successfully-deployed-time" : "Date",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "created-time" : "Date",
    "edit-version" : "Integer",
    "ips-policy-type" : [ "SIGNATURESET", "IPSBASIC", "IPSADVANCED", "NONE", "NOT_CONFIGURED"
],
    "signature-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "id" : "Integer",
    "domain-id" : "Integer",
    "policy-position" : [ "DEVICE", "PRE", "POST" ],
    "version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "description" : "String",
    "name" : "String",
    "policy-order" : "Double",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "uri" : "String",
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "last-modified-by-user-name" : "String",
    "locked-for-edit" : "Boolean"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <last-successfully-deployed-time>Date</last-successfully-deployed-time>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <created-time>Date</created-time>
  <edit-version>Integer</edit-version>
  <ips-policy-type>SIGNATURESET</ips-policy-type>
  <ips-policy-type>IPSBASIC</ips-policy-type>
  <ips-policy-type>IPSADVANCED</ips-policy-type>
  <ips-policy-type>NONE</ips-policy-type>
  <ips-policy-type>NOT_CONFIGURED</ips-policy-type>
  <signature-sets>
    <reference>
      <id>Integer</id>
```


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```
        <name>String</name>
        <domain-id>Integer</domain-id>
        <domain-name>String</domain-name>
        <uri>String</uri>
      </reference>
      <uri>String</uri>
    </signature-sets>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <policy-position>DEVICE</policy-position>
    <policy-position>PRE</policy-position>
    <policy-position>POST</policy-position>
    <version>Integer</version>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <description>String</description>
    <name>String</name>
    <policy-order>Double</policy-order>
    <policy-type>GLOBAL</policy-type>
    <policy-type>GROUP</policy-type>
    <policy-type>DEVICE</policy-type>
    <uri>String</uri>
    <publish-state>Not Published</publish-state>
    <publish-state>Partially Published</publish-state>
    <publish-state>Published</publish-state>
    <publish-state>Re-Publish Required</publish-state>
    <publish-state>Deleted</publish-state>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <locked-for-edit>Boolean</locked-for-edit>
  </policy>
```

Create IPS Policy

This request is used to create a new IPS policy.

URI	/api/juniper/sd/policy-management/ips/policies
HTTP method	POST
Content-Type	application/vnd.juniper.sd.policy-management.ips.policy+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.policy-management.ips.policy+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.policy-management.ips.policy+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.ips.policy+json;version=2;q=0.02
Access-Control	createIPSPolicy

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Sample JSON Input

```
{
  "policy" : {
    "last-successfully-deployed-time" : "Date",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "edit-version" : "Integer",
    "ips-policy-type" : [ "SIGNATURESET", "IPSBASIC", "IPSADVANCED", "NONE", "NOT_CONFIGURED"
],
    "signature-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String"
      } ]
    },
    "id" : "Integer",
    "policy-position" : [ "DEVICE", "PRE", "POST" ],
    "version" : "Integer",
    "description" : "String",
    "name" : "String",
    "policy-order" : "Double",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "locked-for-edit" : "Boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <last-successfully-deployed-time>Date</last-successfully-deployed-time>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <edit-version>Integer</edit-version>
  <ips-policy-type>SIGNATURESET</ips-policy-type>
  <ips-policy-type>IPSBASIC</ips-policy-type>
  <ips-policy-type>IPSADVANCED</ips-policy-type>
  <ips-policy-type>NONE</ips-policy-type>
  <ips-policy-type>NOT_CONFIGURED</ips-policy-type>
  <signature-sets>
    <reference>
      <id>Integer</id>
      <name>String</name>
    </reference>
  </signature-sets>
  <id>Integer</id>
  <policy-position>DEVICE</policy-position>
  <policy-position>PRE</policy-position>
  <policy-position>POST</policy-position>
  <version>Integer</version>
  <description>String</description>
  <name>String</name>
  <policy-order>Double</policy-order>
  <policy-type>GLOBAL</policy-type>
  <policy-type>GROUP</policy-type>
  <policy-type>DEVICE</policy-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <locked-for-edit>Boolean</locked-for-edit>
</policy>
```


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Sample JSON Output:


```
{
  "policy" : {
    "last-successfully-deployed-time" : "Date",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "created-time" : "Date",
    "edit-version" : "Integer",
    "ips-policy-type" : [ "SIGNATURESET", "IPSBASIC", "IPSADVANCED", "NONE", "NOT_CONFIGURED"
],
    "signature-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "id" : "Integer",
    "domain-id" : "Integer",
    "policy-position" : [ "DEVICE", "PRE", "POST" ],
    "version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "description" : "String",
    "name" : "String",
    "policy-order" : "Double",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "uri" : "String",
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "last-modified-by-user-name" : "String",
    "locked-for-edit" : "Boolean"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <last-successfully-deployed-time>Date</last-successfully-deployed-time>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <created-time>Date</created-time>
  <edit-version>Integer</edit-version>
  <ips-policy-type>SIGNATURESET</ips-policy-type>
  <ips-policy-type>IPSBASIC</ips-policy-type>
  <ips-policy-type>IPSADVANCED</ips-policy-type>
  <ips-policy-type>NONE</ips-policy-type>
  <ips-policy-type>NOT_CONFIGURED</ips-policy-type>
  <signature-sets>
    <reference>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
    </reference>
    <uri>String</uri>
  </signature-sets>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <policy-position>DEVICE</policy-position>
```


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```
  <policy-position>PRE</policy-position>
  <policy-position>POST</policy-position>
  <version>Integer</version>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-time>Date</last-modified-time>
  <description>String</description>
  <name>String</name>
  <policy-order>Double</policy-order>
  <policy-type>GLOBAL</policy-type>
  <policy-type>GROUP</policy-type>
  <policy-type>DEVICE</policy-type>
  <uri>String</uri>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <locked-for-edit>Boolean</locked-for-edit>
</policy>
```

Modify IPS Policy

This request is used to modify an existing IPS policy. This operation is a full replace and therefore, you must provide all the basic information.

URI	/api/juniper/sd/policy-management/ips/policies/{policy-id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.policy-management.ips.policy+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.policy-management.ips.policy+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.policy-management.ips.policy+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.ips.policy+json;version=2;q=0.02
Access-Control	modifyIPSPolicy

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Sample JSON Input


```
{
  "policy" : {
    "last-successfully-deployed-time" : "Date",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "edit-version" : "Integer",
    "ips-policy-type" : [ "SIGNATURESET", "IPSBASIC", "IPSADVANCED", "NONE", "NOT_CONFIGURED"
],
    "signature-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String"
      } ]
    },
    "id" : "Integer",
    "policy-position" : [ "DEVICE", "PRE", "POST" ],
    "version" : "Integer",
    "description" : "String",
    "name" : "String",
    "policy-order" : "Double",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "locked-for-edit" : "Boolean"
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <last-successfully-deployed-time>Date</last-successfully-deployed-time>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <edit-version>Integer</edit-version>
  <ips-policy-type>SIGNATURESET</ips-policy-type>
  <ips-policy-type>IPSBASIC</ips-policy-type>
  <ips-policy-type>IPSADVANCED</ips-policy-type>
  <ips-policy-type>NONE</ips-policy-type>
  <ips-policy-type>NOT_CONFIGURED</ips-policy-type>
  <signature-sets>
    <reference>
      <id>Integer</id>
      <name>String</name>
    </reference>
  </signature-sets>
  <id>Integer</id>
  <policy-position>DEVICE</policy-position>
  <policy-position>PRE</policy-position>
  <policy-position>POST</policy-position>
  <version>Integer</version>
  <description>String</description>
  <name>String</name>
  <policy-order>Double</policy-order>
  <policy-type>GLOBAL</policy-type>
  <policy-type>GROUP</policy-type>
  <policy-type>DEVICE</policy-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <locked-for-edit>Boolean</locked-for-edit>
</policy>
```


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Sample JSON Output:


```
{
  "policy" : {
    "last-successfully-deployed-time" : "Date",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "created-time" : "Date",
    "edit-version" : "Integer",
    "ips-policy-type" : [ "SIGNATURESET", "IPSBASIC", "IPSADVANCED", "NONE", "NOT_CONFIGURED"
],
    "signature-sets" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "id" : "Integer",
    "domain-id" : "Integer",
    "policy-position" : [ "DEVICE", "PRE", "POST" ],
    "version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "description" : "String",
    "name" : "String",
    "policy-order" : "Double",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "uri" : "String",
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "last-modified-by-user-name" : "String",
    "locked-for-edit" : "Boolean"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <last-successfully-deployed-time>Date</last-successfully-deployed-time>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <created-time>Date</created-time>
  <edit-version>Integer</edit-version>
  <ips-policy-type>SIGNATURESET</ips-policy-type>
  <ips-policy-type>IPSBASIC</ips-policy-type>
  <ips-policy-type>IPSADVANCED</ips-policy-type>
  <ips-policy-type>NONE</ips-policy-type>
  <ips-policy-type>NOT_CONFIGURED</ips-policy-type>
  <signature-sets>
    <reference>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
    </reference>
    <uri>String</uri>
  </signature-sets>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <policy-position>DEVICE</policy-position>
```


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```
  <policy-position>PRE</policy-position>
  <policy-position>POST</policy-position>
  <version>Integer</version>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-time>Date</last-modified-time>
  <description>String</description>
  <name>String</name>
  <policy-order>Double</policy-order>
  <policy-type>GLOBAL</policy-type>
  <policy-type>GROUP</policy-type>
  <policy-type>DEVICE</policy-type>
  <uri>String</uri>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <locked-for-edit>Boolean</locked-for-edit>
</policy>
```

Delete IPS Policy

This request is used to delete an existing IPS policy. If the API require to have the X-CSRF value twice, the X-CSRF value from the login API result can be used twice to meet the requirements.

URI	/api/juniper/sd/policy-management/ips/policies/{policy-id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteIPSPolicy

Publish IPS Policy

This request is used to schedule a job and publish the IPS policy. After the publish, you must use the device update RESTful Web Services to update the devices.

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URI	/api/juniper/sd/policy-management/ips/provisioning/publish-policy?update=boolean
HTTP method	POST
Content-Type	application/vnd.juniper.sd.fwpolicy-provisioning.publish+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.fwpolicy-provisioning.publish+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.fwpolicy-provisioning.monitorable-task-instances+xml;version=1;q=0.01 application/vnd.juniper.sd.fwpolicy-provisioning.monitorable-task-instances+json;version=1;q=0.01
Access-Control	PublishIPSPolicy

Sample JSON Input

```
{
  "publish" : {
    "policy-ids" : {
      "policy-id" : [ "Integer" ]
    },
    "delete-oldest-snapshot" : "Boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<publish>
   <policy-ids>
      <policy-id>Integer</policy-id>
   </policy-ids>
   <delete-oldest-snapshot>Boolean</delete-oldest-snapshot>
</publish>
```

Sample JSON Output:

```
{
  "monitorable-task-instances" : {
    "monitorable-task-instance-managed-object" : [ {
      "supports-recurrence" : "Boolean",
      "repeat-cron" : "String",
      "mo-state" : "String",
      "schedule-string" : "String",
      "job-status" : [ "UNDETERMINED", "INCOMPLETE", "FAILURE", "SUCCESS", "CANCELLED",
"DEPRECATED" ],
      "job-parameter-data-string" : "String",
      "gui-name" : "String",
      "job-state" : [ "SCHEDULED", "QUEUED", "STARTING", "INPROGRESS", "DONE", "CANCELLING",
"DISABLED" ],
      "start-time-string-rest" : "String",
      "device-image-name" : "String",
```


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```
      "end-time" : "Date",
      "task-name" : "String",
      "service-name" : "String",
      "id" : "String",
      "start-time" : "Date",
      "operation" : "String",
      "details" : "String",
      "details-action-type" : "String",
      "name" : "String",
      "scheduled-start-time-string-rest" : "String",
      "retry-of-id" : "Integer",
      "scheduled-start-time" : "Date",
      "script-bundle-selected" : "String",
      "details-action-url" : "String",
      "end-time-string-rest" : "String",
      "job-params-action-url" : "String",
      "percent-complete" : "Double",
      "is-enabled" : "Boolean",
      "retry-group-id" : "Integer",
      "job-params-summary" : "String",
      "complete-time" : "Integer",
      "user" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<monitorable-task-instances>
  <monitorable-task-instance-managed-object>
    <supports-recurrence>Boolean</supports-recurrence>
    <repeat-cron>String</repeat-cron>
    <mo-state>String</mo-state>
    <schedule-string>String</schedule-string>
    <job-status>UNDETERMINED</job-status>
    <job-status>INCOMPLETE</job-status>
    <job-status>FAILURE</job-status>
    <job-status>SUCCESS</job-status>
    <job-status>CANCELLED</job-status>
    <job-status>DEPRECATED</job-status>
    <job-parameter-data-string>String</job-parameter-data-string>
    <gui-name>String</gui-name>
    <job-state>SCHEDULED</job-state>
    <job-state>QUEUED</job-state>
    <job-state>STARTING</job-state>
    <job-state>INPROGRESS</job-state>
    <job-state>DONE</job-state>
    <job-state>CANCELLING</job-state>
    <job-state>DISABLED</job-state>
    <start-time-string-rest>String</start-time-string-rest>
    <device-image-name>String</device-image-name>
    <end-time>Date</end-time>
    <task-name>String</task-name>
    <service-name>String</service-name>
    <id>String</id>
    <start-time>Date</start-time>
    <operation>String</operation>
    <details>String</details>
    <details-action-type>String</details-action-type>
    <name>String</name>
```


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```
    <scheduled-start-time-string-rest>String</scheduled-start-time-string-rest>
    <retry-of-id>Integer</retry-of-id>
    <scheduled-start-time>Date</scheduled-start-time>
    <script-bundle-selected>String</script-bundle-selected>
    <details-action-url>String</details-action-url>
    <end-time-string-rest>String</end-time-string-rest>
    <job-params-action-url>String</job-params-action-url>
    <percent-complete>Double</percent-complete>
    <is-enabled>Boolean</is-enabled>
    <retry-group-id>Integer</retry-group-id>
    <job-params-summary>String</job-params-summary>
    <complete-time>Integer</complete-time>
    <user>String</user>
    <uri>String</uri>
  </monitorable-task-instance-managed-object>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</monitorable-task-instances>
```

Get IPS Rules For a Rule Group

This api is used to get all the rules under a rule group for a given policy ID.

URI	/api/juniper/sd/policy-management/ips/policies/{policy-id}/rules/{rule-group-id}/rules
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.ips.rules+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.ips.rules+json;version=2;q=0.02
Access-Control	viewIPSPolicy

Sample JSON Output:

```
{
  "rules" : {
    "rule" : [ {
      "disabled" : "Boolean",
      "edit-version" : "Integer",
      "name" : "String",
      "version" : "Integer",
      "id" : "Integer",
      "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
      "rule-order" : "Integer",
      "policy-id" : "Integer",
      "last-modified-by-user-name" : "String",
      "rule-type" : [ "RULE", "RULEGROUP" ],
```


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```
      "rule-group-id" : "Integer",
      "ips-type" : "String",
      "created-by-user-name" : "String",
      "description" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<rules>
  <rule>
    <disabled>Boolean</disabled>
    <edit-version>Integer</edit-version>
    <name>String</name>
    <version>Integer</version>
    <id>Integer</id>
    <rule-group-type>CUSTOM</rule-group-type>
    <rule-group-type>ZONE</rule-group-type>
    <rule-group-type>GLOBAL</rule-group-type>
    <rule-order>Integer</rule-order>
    <policy-id>Integer</policy-id>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <rule-type>RULE</rule-type>
    <rule-type>RULEGROUP</rule-type>
    <rule-group-id>Integer</rule-group-id>
    <ips-type>String</ips-type>
    <created-by-user-name>String</created-by-user-name>
    <description>String</description>
    <uri>String</uri>
  </rule>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</rules>
```


Delete IPS Rule

This request is used to delete an existing rule by its ID.

URI	/api/juniper/sd/policy-management/ips/policies/{policy-id}/rules/{rule-id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None

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Access-Control	modifyIPSPolicy

Modify IPS Rule

This request is used to modify an existing rule.

URI	/api/juniper/sd/policy-management/ips/policies/{policy-id}/rules/{rule-id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.policy-management.ips.rule+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.policy-management.ips.rule+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.policy-management.ips.rule+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.ips.rule+json;version=2;q=0.02
Access-Control	modifyIPSPolicy

Sample JSON Input


```
{
  "rule" : {
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "edit-version" : "Integer",
    "source-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
```


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```
            "serialVersionUID" : "long",
            "DEFAULT_CAPACITY" : "int",
            "EMPTY_ELEMENTDATA" : "[]",
            "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
            "elementData" : "[]",
            "size" : "int",
            "MAX_ARRAY_SIZE" : "int"
           }
          } ],
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
        } ]
      }
    },
    "application" : {
      "id" : "Integer",
      "name" : "String"
    },
    "action-data" : {
      "dscpcode" : "Integer",
      "action" : "String"
    },
    "name" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
    "rule-order" : "Integer",
    "attacks" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String"
      } ]
    },
    "policy-id" : "Integer",
    "destination-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
```


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```
            "MAX_ARRAY_SIZE" : "int"
          }
         } ],
         "id" : "String",
         "uuid" : "String",
         "name" : "String",
         "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
         "variable-id" : "Integer"
       } ]
     }
   },
   "rule-type" : [ "RULE", "RULEGROUP" ],
   "rule-group-id" : "Integer",
   "ips-type" : "String",
   "config-data" : {
     "alert" : "Boolean",
     "severity" : "String",
     "post-attack-timeout" : "Integer",
     "log" : "Boolean",
     "refresh-timeout" : "Boolean",
     "terminal" : "Boolean",
     "target" : "String",
     "log-attacks" : "Boolean",
     "packet-log" : "Boolean",
     "pre-attack" : "Integer",
     "log-create" : "Boolean",
     "ip-action" : "String",
     "timeout" : "Integer",
     "post-attack" : "Integer"
   },
   "destination-zone" : {
     "id" : "Integer",
     "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
     "resolved" : "Boolean",
     "name" : "String",
     "default-value" : "String"
   },
   "description" : "String",
   "source-zone" : {
     "id" : "Integer",
     "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
     "resolved" : "Boolean",
     "name" : "String",
     "default-value" : "String"
   }
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <disabled>Boolean</disabled>
  <rulegroup-disabled>Boolean</rulegroup-disabled>
  <edit-version>Integer</edit-version>
  <source-address>
    <exclude-list>Boolean</exclude-list>
    <addresses>
      <address-reference>
        <address_refs>
          <addressType>IPADDRESS</addressType>
          <addressType>DELETED_1</addressType>
          <addressType>GROUP</addressType>
```


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```
                <addressType>RANGE</addressType>
                <addressType>NETWORK</addressType>
                <addressType>INTERNET</addressType>
                <addressType>WILDCARD</addressType>
                <addressType>DNS</addressType>
                <addressType>POLYMORPHIC</addressType>
                <addressType>ANY</addressType>
                <addressType>ANY_IPV4</addressType>
                <addressType>ANY_IPV6</addressType>
                <addressType>ALL_IPV6</addressType>
                <addressType>DYNAMIC_ADDRESS_GROUP</addressType>
                <addressType>Z_TYPE_IMPORT</addressType>
                <addressType>IPS_TYPE_IMPORT</addressType>
                <addressType>FEED_TYPE</addressType>
                <ipAddress>String</ipAddress>
                <hostName>String</hostName>
                <dnsAddressType>IPV4_ONLY</dnsAddressType>
                <dnsAddressType>IPV6_ONLY</dnsAddressType>
                <addressVersion>IPV4</addressVersion>
                <addressVersion>IPV6</addressVersion>
                <addressVersion>MIXED</addressVersion>
                <zone>String</zone>
                <variableId>Integer</variableId>
                <hashKey>String</hashKey>
                <addressBookName>String</addressBookName>
                <associatedMetadata>String</associatedMetadata>
                <parentAddressGroups>
                  <serialVersionUID>long</serialVersionUID>
                  <DEFAULT_CAPACITY>int</DEFAULT_CAPACITY>
                  <EMPTY_ELEMENTDATA>[]</EMPTY_ELEMENTDATA>

<DEFAULTCAPACITY_EMPTY_ELEMENTDATA>[]</DEFAULTCAPACITY_EMPTY_ELEMENTDATA>
                  <elementData>[]</elementData>
                  <size>int</size>
                  <MAX_ARRAY_SIZE>int</MAX_ARRAY_SIZE>
                </parentAddressGroups>
              </address_refs>
              <id>String</id>
              <uuid>String</uuid>
              <name>String</name>
              <address-type>IPADDRESS</address-type>
              <address-type>DELETED_1</address-type>
              <address-type>GROUP</address-type>
              <address-type>RANGE</address-type>
              <address-type>NETWORK</address-type>
              <address-type>INTERNET</address-type>
              <address-type>WILDCARD</address-type>
              <address-type>DNS</address-type>
              <address-type>POLYMORPHIC</address-type>
              <address-type>ANY</address-type>
              <address-type>ANY_IPV4</address-type>
              <address-type>ANY_IPV6</address-type>
              <address-type>ALL_IPV6</address-type>
              <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
              <address-type>Z_TYPE_IMPORT</address-type>
              <address-type>IPS_TYPE_IMPORT</address-type>
              <address-type>FEED_TYPE</address-type>
              <variable-id>Integer</variable-id>
            </address-reference>
          </addresses>
        </source-address>
        <application>
          <id>Integer</id>
          <name>String</name>
```


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```
</application>
<action-data>
  <dscpcode>Integer</dscpcode>
  <action>String</action>
</action-data>
<name>String</name>
<version>Integer</version>
<id>Integer</id>
<rule-group-type>CUSTOM</rule-group-type>
<rule-group-type>ZONE</rule-group-type>
<rule-group-type>GLOBAL</rule-group-type>
<rule-order>Integer</rule-order>
<attacks>
  <reference>
    <id>Integer</id>
    <name>String</name>
  </reference>
</attacks>
<policy-id>Integer</policy-id>
<destination-address>
  <exclude-list>Boolean</exclude-list>
  <addresses>
    <address-reference>
      <address_refs>
        <addressType>IPADDRESS</addressType>
        <addressType>DELETED_1</addressType>
        <addressType>GROUP</addressType>
        <addressType>RANGE</addressType>
        <addressType>NETWORK</addressType>
        <addressType>INTERNET</addressType>
        <addressType>WILDCARD</addressType>
        <addressType>DNS</addressType>
        <addressType>POLYMORPHIC</addressType>
        <addressType>ANY</addressType>
        <addressType>ANY_IPV4</addressType>
        <addressType>ANY_IPV6</addressType>
        <addressType>ALL_IPV6</addressType>
        <addressType>DYNAMIC_ADDRESS_GROUP</addressType>
        <addressType>Z_TYPE_IMPORT</addressType>
        <addressType>IPS_TYPE_IMPORT</addressType>
        <addressType>FEED_TYPE</addressType>
        <ipAddress>String</ipAddress>
        <hostName>String</hostName>
        <dnsAddressType>IPV4_ONLY</dnsAddressType>
        <dnsAddressType>IPV6_ONLY</dnsAddressType>
        <addressVersion>IPV4</addressVersion>
        <addressVersion>IPV6</addressVersion>
        <addressVersion>MIXED</addressVersion>
        <zone>String</zone>
        <variableId>Integer</variableId>
        <hashKey>String</hashKey>
        <addressBookName>String</addressBookName>
        <associatedMetadata>String</associatedMetadata>
        <parentAddressGroups>
          <serialVersionUID>long</serialVersionUID>
          <DEFAULT_CAPACITY>int</DEFAULT_CAPACITY>
          <EMPTY_ELEMENTDATA>[]</EMPTY_ELEMENTDATA>

<DEFAULTCAPACITY_EMPTY_ELEMENTDATA>[]</DEFAULTCAPACITY_EMPTY_ELEMENTDATA>
          <elementData>[]</elementData>
          <size>int</size>
          <MAX_ARRAY_SIZE>int</MAX_ARRAY_SIZE>
        </parentAddressGroups>
      </address_refs>
```


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```
        <id>String</id>
        <uuid>String</uuid>
        <name>String</name>
        <address-type>IPADDRESS</address-type>
        <address-type>DELETED_1</address-type>
        <address-type>GROUP</address-type>
        <address-type>RANGE</address-type>
        <address-type>NETWORK</address-type>
        <address-type>INTERNET</address-type>
        <address-type>WILDCARD</address-type>
        <address-type>DNS</address-type>
        <address-type>POLYMORPHIC</address-type>
        <address-type>ANY</address-type>
        <address-type>ANY_IPV4</address-type>
        <address-type>ANY_IPV6</address-type>
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
        <variable-id>Integer</variable-id>
      </address-reference>
    </addresses>
  </destination-address>
  <rule-type>RULE</rule-type>
  <rule-type>RULEGROUP</rule-type>
  <rule-group-id>Integer</rule-group-id>
  <ips-type>String</ips-type>
  <config-data>
    <alert>Boolean</alert>
    <severity>String</severity>
    <post-attack-timeout>Integer</post-attack-timeout>
    <log>Boolean</log>
    <refresh-timeout>Boolean</refresh-timeout>
    <terminal>Boolean</terminal>
    <target>String</target>
    <log-attacks>Boolean</log-attacks>
    <packet-log>Boolean</packet-log>
    <pre-attack>Integer</pre-attack>
    <log-create>Boolean</log-create>
    <ip-action>String</ip-action>
    <timeout>Integer</timeout>
    <post-attack>Integer</post-attack>
  </config-data>
  <destination-zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <zone-type>AMS</zone-type>
    <resolved>Boolean</resolved>
    <name>String</name>
    <default-value>String</default-value>
  </destination-zone>
  <description>String</description>
  <source-zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <zone-type>AMS</zone-type>
    <resolved>Boolean</resolved>
    <name>String</name>
    <default-value>String</default-value>
```


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```
  </source-zone>
</rule>
```

Sample JSON Output:


```
{
  "rule" : {
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "edit-version" : "Integer",
    "source-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "uri" : "String"
    },
    "application" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "uri" : "String"
    },
```


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```
    "action-data" : {
      "dscpcode" : "Integer",
      "action" : "String",
      "uri" : "String"
    },
    "name" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
    "rule-order" : "Integer",
    "attacks" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "policy-id" : "Integer",
    "destination-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "uri" : "String"
    },
    "last-modified-by-user-name" : "String",
    "rule-type" : [ "RULE", "RULEGROUP" ],
```


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```
    "rule-group-id" : "Integer",
    "ips-type" : "String",
    "config-data" : {
      "alert" : "Boolean",
      "severity" : "String",
      "post-attack-timeout" : "Integer",
      "log" : "Boolean",
      "refresh-timeout" : "Boolean",
      "terminal" : "Boolean",
      "target" : "String",
      "log-attacks" : "Boolean",
      "packet-log" : "Boolean",
      "pre-attack" : "Integer",
      "log-create" : "Boolean",
      "ip-action" : "String",
      "timeout" : "Integer",
      "post-attack" : "Integer",
      "uri" : "String"
    },
    "created-by-user-name" : "String",
    "destination-zone" : {
      "id" : "Integer",
      "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
      "resolved" : "Boolean",
      "domain-id" : "Integer",
      "name" : "String",
      "uri" : "String",
      "default-value" : "String"
    },
    "description" : "String",
    "uri" : "String",
    "source-zone" : {
      "id" : "Integer",
      "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
      "resolved" : "Boolean",
      "domain-id" : "Integer",
      "name" : "String",
      "default-value" : "String",
      "uri" : "String"
    },
    "created-time" : "Date",
    "last-modified-time" : "Date"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <disabled>Boolean</disabled>
  <rulegroup-disabled>Boolean</rulegroup-disabled>
  <edit-version>Integer</edit-version>
  <source-address>
    <exclude-list>Boolean</exclude-list>
    <addresses>
      <address-reference>
        <address_refs>
          <addressType>IPADDRESS</addressType>
          <addressType>DELETED_1</addressType>
          <addressType>GROUP</addressType>
          <addressType>RANGE</addressType>
          <addressType>NETWORK</addressType>
          <addressType>INTERNET</addressType>
          <addressType>WILDCARD</addressType>
```


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```
                <addressType>DNS</addressType>
                <addressType>POLYMORPHIC</addressType>
                <addressType>ANY</addressType>
                <addressType>ANY_IPV4</addressType>
                <addressType>ANY_IPV6</addressType>
                <addressType>ALL_IPV6</addressType>
                <addressType>DYNAMIC_ADDRESS_GROUP</addressType>
                <addressType>Z_TYPE_IMPORT</addressType>
                <addressType>IPS_TYPE_IMPORT</addressType>
                <addressType>FEED_TYPE</addressType>
                <ipAddress>String</ipAddress>
                <hostName>String</hostName>
                <dnsAddressType>IPV4_ONLY</dnsAddressType>
                <dnsAddressType>IPV6_ONLY</dnsAddressType>
                <addressVersion>IPV4</addressVersion>
                <addressVersion>IPV6</addressVersion>
                <addressVersion>MIXED</addressVersion>
                <zone>String</zone>
                <variableId>Integer</variableId>
                <hashKey>String</hashKey>
                <addressBookName>String</addressBookName>
                <associatedMetadata>String</associatedMetadata>
                <parentAddressGroups>
                  <serialVersionUID>long</serialVersionUID>
                  <DEFAULT_CAPACITY>int</DEFAULT_CAPACITY>
                  <EMPTY_ELEMENTDATA>[]</EMPTY_ELEMENTDATA>

<DEFAULTCAPACITY_EMPTY_ELEMENTDATA>[]</DEFAULTCAPACITY_EMPTY_ELEMENTDATA>
                  <elementData>[]</elementData>
                  <size>int</size>
                  <MAX_ARRAY_SIZE>int</MAX_ARRAY_SIZE>
                </parentAddressGroups>
              </address_refs>
              <id>String</id>
              <uuid>String</uuid>
              <domain-id>Integer</domain-id>
              <name>String</name>
              <address-type>IPADDRESS</address-type>
              <address-type>DELETED_1</address-type>
              <address-type>GROUP</address-type>
              <address-type>RANGE</address-type>
              <address-type>NETWORK</address-type>
              <address-type>INTERNET</address-type>
              <address-type>WILDCARD</address-type>
              <address-type>DNS</address-type>
              <address-type>POLYMORPHIC</address-type>
              <address-type>ANY</address-type>
              <address-type>ANY_IPV4</address-type>
              <address-type>ANY_IPV6</address-type>
              <address-type>ALL_IPV6</address-type>
              <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
              <address-type>Z_TYPE_IMPORT</address-type>
              <address-type>IPS_TYPE_IMPORT</address-type>
              <address-type>FEED_TYPE</address-type>
              <variable-id>Integer</variable-id>
              <uri>String</uri>
            </address-reference>
            <uri>String</uri>
          </addresses>
          <uri>String</uri>
        </source-address>
        <application>
          <id>Integer</id>
          <name>String</name>
```


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```
    <domain-id>Integer</domain-id>
    <uri>String</uri>
  </application>
  <action-data>
    <dscpcode>Integer</dscpcode>
    <action>String</action>
    <uri>String</uri>
  </action-data>
  <name>String</name>
  <version>Integer</version>
  <id>Integer</id>
  <rule-group-type>CUSTOM</rule-group-type>
  <rule-group-type>ZONE</rule-group-type>
  <rule-group-type>GLOBAL</rule-group-type>
  <rule-order>Integer</rule-order>
  <attacks>
    <reference>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
    </reference>
    <uri>String</uri>
  </attacks>
  <policy-id>Integer</policy-id>
  <destination-address>
    <exclude-list>Boolean</exclude-list>
    <addresses>
      <address-reference>
        <address_refs>
          <addressType>IPADDRESS</addressType>
          <addressType>DELETED_1</addressType>
          <addressType>GROUP</addressType>
          <addressType>RANGE</addressType>
          <addressType>NETWORK</addressType>
          <addressType>INTERNET</addressType>
          <addressType>WILDCARD</addressType>
          <addressType>DNS</addressType>
          <addressType>POLYMORPHIC</addressType>
          <addressType>ANY</addressType>
          <addressType>ANY_IPV4</addressType>
          <addressType>ANY_IPV6</addressType>
          <addressType>ALL_IPV6</addressType>
          <addressType>DYNAMIC_ADDRESS_GROUP</addressType>
          <addressType>Z_TYPE_IMPORT</addressType>
          <addressType>IPS_TYPE_IMPORT</addressType>
          <addressType>FEED_TYPE</addressType>
          <ipAddress>String</ipAddress>
          <hostName>String</hostName>
          <dnsAddressType>IPV4_ONLY</dnsAddressType>
          <dnsAddressType>IPV6_ONLY</dnsAddressType>
          <addressVersion>IPV4</addressVersion>
          <addressVersion>IPV6</addressVersion>
          <addressVersion>MIXED</addressVersion>
          <zone>String</zone>
          <variableId>Integer</variableId>
          <hashKey>String</hashKey>
          <addressBookName>String</addressBookName>
          <associatedMetadata>String</associatedMetadata>
          <parentAddressGroups>
            <serialVersionUID>long</serialVersionUID>
            <DEFAULT_CAPACITY>int</DEFAULT_CAPACITY>
            <EMPTY_ELEMENTDATA>[]</EMPTY_ELEMENTDATA>
            <DEFAULTCAPACITY_EMPTY_ELEMENTDATA>[]
```


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```
</DEFAULTCAPACITY_EMPTY_ELEMENTDATA>
                <elementData>[]</elementData>
                <size>int</size>
                <MAX_ARRAY_SIZE>int</MAX_ARRAY_SIZE>
              </parentAddressGroups>
            </address_refs>
            <id>String</id>
            <uuid>String</uuid>
            <domain-id>Integer</domain-id>
            <name>String</name>
            <address-type>IPADDRESS</address-type>
            <address-type>DELETED_1</address-type>
            <address-type>GROUP</address-type>
            <address-type>RANGE</address-type>
            <address-type>NETWORK</address-type>
            <address-type>INTERNET</address-type>
            <address-type>WILDCARD</address-type>
            <address-type>DNS</address-type>
            <address-type>POLYMORPHIC</address-type>
            <address-type>ANY</address-type>
            <address-type>ANY_IPV4</address-type>
            <address-type>ANY_IPV6</address-type>
            <address-type>ALL_IPV6</address-type>
            <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
            <address-type>Z_TYPE_IMPORT</address-type>
            <address-type>IPS_TYPE_IMPORT</address-type>
            <address-type>FEED_TYPE</address-type>
            <variable-id>Integer</variable-id>
            <uri>String</uri>
          </address-reference>
          <uri>String</uri>
        </addresses>
        <uri>String</uri>
      </destination-address>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <rule-type>RULE</rule-type>
      <rule-type>RULEGROUP</rule-type>
      <rule-group-id>Integer</rule-group-id>
      <ips-type>String</ips-type>
      <config-data>
        <alert>Boolean</alert>
        <severity>String</severity>
        <post-attack-timeout>Integer</post-attack-timeout>
        <log>Boolean</log>
        <refresh-timeout>Boolean</refresh-timeout>
        <terminal>Boolean</terminal>
        <target>String</target>
        <log-attacks>Boolean</log-attacks>
        <packet-log>Boolean</packet-log>
        <pre-attack>Integer</pre-attack>
        <log-create>Boolean</log-create>
        <ip-action>String</ip-action>
        <timeout>Integer</timeout>
        <post-attack>Integer</post-attack>
        <uri>String</uri>
      </config-data>
      <created-by-user-name>String</created-by-user-name>
      <destination-zone>
        <id>Integer</id>
        <zone-type>POLYMORPHIC</zone-type>
        <zone-type>ZONE</zone-type>
        <zone-type>ZONESET</zone-type>
        <zone-type>AMS</zone-type>
        <resolved>Boolean</resolved>
```


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```
    <domain-id>Integer</domain-id>
    <name>String</name>
    <uri>String</uri>
    <default-value>String</default-value>
  </destination-zone>
  <description>String</description>
  <uri>String</uri>
  <source-zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <zone-type>AMS</zone-type>
    <resolved>Boolean</resolved>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <default-value>String</default-value>
    <uri>String</uri>
  </source-zone>
  <created-time>Date</created-time>
  <last-modified-time>Date</last-modified-time>
</rule>
```

Get IPS Rules for Policy

This api is used to get all the rules associated to the policy.

URI	/api/juniper/sd/policy-management/ips/policies/{policy-id}/rules
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.ips.rules+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.ips.rules+json;version=2;q=0.02
Access-Control	viewIPSPolicy

Sample JSON Output:

```
{
  "rules" : {
    "rule" : [ {
      "disabled" : "Boolean",
      "edit-version" : "Integer",
      "name" : "String",
      "version" : "Integer",
      "id" : "Integer",
      "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
```


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```
      "rule-order" : "Integer",
      "policy-id" : "Integer",
      "last-modified-by-user-name" : "String",
      "rule-type" : [ "RULE", "RULEGROUP" ],
      "rule-group-id" : "Integer",
      "ips-type" : "String",
      "created-by-user-name" : "String",
      "description" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<rules>
  <rule>
    <disabled>Boolean</disabled>
    <edit-version>Integer</edit-version>
    <name>String</name>
    <version>Integer</version>
    <id>Integer</id>
    <rule-group-type>CUSTOM</rule-group-type>
    <rule-group-type>ZONE</rule-group-type>
    <rule-group-type>GLOBAL</rule-group-type>
    <rule-order>Integer</rule-order>
    <policy-id>Integer</policy-id>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <rule-type>RULE</rule-type>
    <rule-type>RULEGROUP</rule-type>
    <rule-group-id>Integer</rule-group-id>
    <ips-type>String</ips-type>
    <created-by-user-name>String</created-by-user-name>
    <description>String</description>
    <uri>String</uri>
  </rule>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</rules>
```


Get IPS Rule By ID

This request is used to get the rule details by its ID.

URI	/api/juniper/sd/policy-management/ips/policies/{policy-id}/rules/{rule-id}
HTTP method	GET
Content-Type	None

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Accept-Type	application/vnd.juniper.sd.policy-management.ips.rule+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.ips.rule+json;version=2;q=0.02
Access-Control	viewIPSPolicy

Sample JSON Output:


```
{
  "rule" : {
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "edit-version" : "Integer",
    "source-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "uri" : "String"
    },
    "application" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "uri" : "String"
    },
```


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```
    "action-data" : {
      "dscpcode" : "Integer",
      "action" : "String",
      "uri" : "String"
    },
    "name" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
    "rule-order" : "Integer",
    "attacks" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "policy-id" : "Integer",
    "destination-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "uri" : "String"
    },
    "last-modified-by-user-name" : "String",
    "rule-type" : [ "RULE", "RULEGROUP" ],
```


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```
    "rule-group-id" : "Integer",
    "ips-type" : "String",
    "config-data" : {
      "alert" : "Boolean",
      "severity" : "String",
      "post-attack-timeout" : "Integer",
      "log" : "Boolean",
      "refresh-timeout" : "Boolean",
      "terminal" : "Boolean",
      "target" : "String",
      "log-attacks" : "Boolean",
      "packet-log" : "Boolean",
      "pre-attack" : "Integer",
      "log-create" : "Boolean",
      "ip-action" : "String",
      "timeout" : "Integer",
      "post-attack" : "Integer",
      "uri" : "String"
    },
    "created-by-user-name" : "String",
    "destination-zone" : {
      "id" : "Integer",
      "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
      "resolved" : "Boolean",
      "domain-id" : "Integer",
      "name" : "String",
      "uri" : "String",
      "default-value" : "String"
    },
    "description" : "String",
    "uri" : "String",
    "source-zone" : {
      "id" : "Integer",
      "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
      "resolved" : "Boolean",
      "domain-id" : "Integer",
      "name" : "String",
      "default-value" : "String",
      "uri" : "String"
    },
    "created-time" : "Date",
    "last-modified-time" : "Date"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <disabled>Boolean</disabled>
  <rulegroup-disabled>Boolean</rulegroup-disabled>
  <edit-version>Integer</edit-version>
  <source-address>
    <exclude-list>Boolean</exclude-list>
    <addresses>
      <address-reference>
        <address_refs>
          <addressType>IPADDRESS</addressType>
          <addressType>DELETED_1</addressType>
          <addressType>GROUP</addressType>
          <addressType>RANGE</addressType>
          <addressType>NETWORK</addressType>
          <addressType>INTERNET</addressType>
          <addressType>WILDCARD</addressType>
```


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```
                <addressType>DNS</addressType>
                <addressType>POLYMORPHIC</addressType>
                <addressType>ANY</addressType>
                <addressType>ANY_IPV4</addressType>
                <addressType>ANY_IPV6</addressType>
                <addressType>ALL_IPV6</addressType>
                <addressType>DYNAMIC_ADDRESS_GROUP</addressType>
                <addressType>Z_TYPE_IMPORT</addressType>
                <addressType>IPS_TYPE_IMPORT</addressType>
                <addressType>FEED_TYPE</addressType>
                <ipAddress>String</ipAddress>
                <hostName>String</hostName>
                <dnsAddressType>IPV4_ONLY</dnsAddressType>
                <dnsAddressType>IPV6_ONLY</dnsAddressType>
                <addressVersion>IPV4</addressVersion>
                <addressVersion>IPV6</addressVersion>
                <addressVersion>MIXED</addressVersion>
                <zone>String</zone>
                <variableId>Integer</variableId>
                <hashKey>String</hashKey>
                <addressBookName>String</addressBookName>
                <associatedMetadata>String</associatedMetadata>
                <parentAddressGroups>
                  <serialVersionUID>long</serialVersionUID>
                  <DEFAULT_CAPACITY>int</DEFAULT_CAPACITY>
                  <EMPTY_ELEMENTDATA>[]</EMPTY_ELEMENTDATA>

<DEFAULTCAPACITY_EMPTY_ELEMENTDATA>[]</DEFAULTCAPACITY_EMPTY_ELEMENTDATA>
                  <elementData>[]</elementData>
                  <size>int</size>
                  <MAX_ARRAY_SIZE>int</MAX_ARRAY_SIZE>
                </parentAddressGroups>
              </address_refs>
              <id>String</id>
              <uuid>String</uuid>
              <domain-id>Integer</domain-id>
              <name>String</name>
              <address-type>IPADDRESS</address-type>
              <address-type>DELETED_1</address-type>
              <address-type>GROUP</address-type>
              <address-type>RANGE</address-type>
              <address-type>NETWORK</address-type>
              <address-type>INTERNET</address-type>
              <address-type>WILDCARD</address-type>
              <address-type>DNS</address-type>
              <address-type>POLYMORPHIC</address-type>
              <address-type>ANY</address-type>
              <address-type>ANY_IPV4</address-type>
              <address-type>ANY_IPV6</address-type>
              <address-type>ALL_IPV6</address-type>
              <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
              <address-type>Z_TYPE_IMPORT</address-type>
              <address-type>IPS_TYPE_IMPORT</address-type>
              <address-type>FEED_TYPE</address-type>
              <variable-id>Integer</variable-id>
              <uri>String</uri>
            </address-reference>
            <uri>String</uri>
          </addresses>
          <uri>String</uri>
        </source-address>
        <application>
          <id>Integer</id>
          <name>String</name>
```


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```
  <domain-id>Integer</domain-id>
  <uri>String</uri>
</application>
<action-data>
  <dscpcode>Integer</dscpcode>
  <action>String</action>
  <uri>String</uri>
</action-data>
<name>String</name>
<version>Integer</version>
<id>Integer</id>
<rule-group-type>CUSTOM</rule-group-type>
<rule-group-type>ZONE</rule-group-type>
<rule-group-type>GLOBAL</rule-group-type>
<rule-order>Integer</rule-order>
<attacks>
  <reference>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
  </reference>
  <uri>String</uri>
</attacks>
<policy-id>Integer</policy-id>
<destination-address>
  <exclude-list>Boolean</exclude-list>
  <addresses>
    <address-reference>
      <address_refs>
        <addressType>IPADDRESS</addressType>
        <addressType>DELETED_1</addressType>
        <addressType>GROUP</addressType>
        <addressType>RANGE</addressType>
        <addressType>NETWORK</addressType>
        <addressType>INTERNET</addressType>
        <addressType>WILDCARD</addressType>
        <addressType>DNS</addressType>
        <addressType>POLYMORPHIC</addressType>
        <addressType>ANY</addressType>
        <addressType>ANY_IPV4</addressType>
        <addressType>ANY_IPV6</addressType>
        <addressType>ALL_IPV6</addressType>
        <addressType>DYNAMIC_ADDRESS_GROUP</addressType>
        <addressType>Z_TYPE_IMPORT</addressType>
        <addressType>IPS_TYPE_IMPORT</addressType>
        <addressType>FEED_TYPE</addressType>
        <ipAddress>String</ipAddress>
        <hostName>String</hostName>
        <dnsAddressType>IPV4_ONLY</dnsAddressType>
        <dnsAddressType>IPV6_ONLY</dnsAddressType>
        <addressVersion>IPV4</addressVersion>
        <addressVersion>IPV6</addressVersion>
        <addressVersion>MIXED</addressVersion>
        <zone>String</zone>
        <variableId>Integer</variableId>
        <hashKey>String</hashKey>
        <addressBookName>String</addressBookName>
        <associatedMetadata>String</associatedMetadata>
        <parentAddressGroups>
          <serialVersionUID>long</serialVersionUID>
          <DEFAULT_CAPACITY>int</DEFAULT_CAPACITY>
          <EMPTY_ELEMENTDATA>[]</EMPTY_ELEMENTDATA>
          <DEFAULTCAPACITY_EMPTY_ELEMENTDATA>[]
```


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```
</DEFAULTCAPACITY_EMPTY_ELEMENTDATA>
                <elementData>[]</elementData>
                <size>int</size>
                <MAX_ARRAY_SIZE>int</MAX_ARRAY_SIZE>
              </parentAddressGroups>
            </address_refs>
            <id>String</id>
            <uuid>String</uuid>
            <domain-id>Integer</domain-id>
            <name>String</name>
            <address-type>IPADDRESS</address-type>
            <address-type>DELETED_1</address-type>
            <address-type>GROUP</address-type>
            <address-type>RANGE</address-type>
            <address-type>NETWORK</address-type>
            <address-type>INTERNET</address-type>
            <address-type>WILDCARD</address-type>
            <address-type>DNS</address-type>
            <address-type>POLYMORPHIC</address-type>
            <address-type>ANY</address-type>
            <address-type>ANY_IPV4</address-type>
            <address-type>ANY_IPV6</address-type>
            <address-type>ALL_IPV6</address-type>
            <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
            <address-type>Z_TYPE_IMPORT</address-type>
            <address-type>IPS_TYPE_IMPORT</address-type>
            <address-type>FEED_TYPE</address-type>
            <variable-id>Integer</variable-id>
            <uri>String</uri>
          </address-reference>
          <uri>String</uri>
        </addresses>
        <uri>String</uri>
      </destination-address>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <rule-type>RULE</rule-type>
      <rule-type>RULEGROUP</rule-type>
      <rule-group-id>Integer</rule-group-id>
      <ips-type>String</ips-type>
      <config-data>
        <alert>Boolean</alert>
        <severity>String</severity>
        <post-attack-timeout>Integer</post-attack-timeout>
        <log>Boolean</log>
        <refresh-timeout>Boolean</refresh-timeout>
        <terminal>Boolean</terminal>
        <target>String</target>
        <log-attacks>Boolean</log-attacks>
        <packet-log>Boolean</packet-log>
        <pre-attack>Integer</pre-attack>
        <log-create>Boolean</log-create>
        <ip-action>String</ip-action>
        <timeout>Integer</timeout>
        <post-attack>Integer</post-attack>
        <uri>String</uri>
      </config-data>
      <created-by-user-name>String</created-by-user-name>
      <destination-zone>
        <id>Integer</id>
        <zone-type>POLYMORPHIC</zone-type>
        <zone-type>ZONE</zone-type>
        <zone-type>ZONESET</zone-type>
        <zone-type>AMS</zone-type>
        <resolved>Boolean</resolved>
```


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```
    <domain-id>Integer</domain-id>
    <name>String</name>
    <uri>String</uri>
    <default-value>String</default-value>
  </destination-zone>
  <description>String</description>
  <uri>String</uri>
  <source-zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <zone-type>AMS</zone-type>
    <resolved>Boolean</resolved>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <default-value>String</default-value>
    <uri>String</uri>
  </source-zone>
  <created-time>Date</created-time>
  <last-modified-time>Date</last-modified-time>
</rule>
```

Add a New Rule to IPS Policy

This request is used to add new rule to an existing rule group or add a new rule group.

URI	/api/juniper/sd/policy-management/ips/policies/{policy-id}/rules
HTTP method	POST
Content-Type	application/vnd.juniper.sd.policy-management.ips.rule+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.policy-management.ips.rule+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.policy-management.ips.rule+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.ips.rule+json;version=2;q=0.02
Access-Control	modifyIPSPolicy

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Sample JSON Input


```
{
  "rule" : {
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "edit-version" : "Integer",
    "source-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
        } ]
      }
    },
    "application" : {
      "id" : "Integer",
      "name" : "String"
    },
    "action-data" : {
      "dscpcode" : "Integer",
      "action" : "String"
    },
    "name" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
    "rule-order" : "Integer",
    "attacks" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String"
      } ]
    },
```


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```
    "policy-id" : "Integer",
    "destination-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer"
        } ]
      }
    },
    "rule-type" : [ "RULE", "RULEGROUP" ],
    "rule-group-id" : "Integer",
    "ips-type" : "String",
    "config-data" : {
      "alert" : "Boolean",
      "severity" : "String",
      "post-attack-timeout" : "Integer",
      "log" : "Boolean",
      "refresh-timeout" : "Boolean",
      "terminal" : "Boolean",
      "target" : "String",
      "log-attacks" : "Boolean",
      "packet-log" : "Boolean",
      "pre-attack" : "Integer",
      "log-create" : "Boolean",
      "ip-action" : "String",
      "timeout" : "Integer",
      "post-attack" : "Integer"
    },
    "destination-zone" : {
      "id" : "Integer",
      "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
      "resolved" : "Boolean",
      "name" : "String",
      "default-value" : "String"
```


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```
    },
    "description" : "String",
    "source-zone" : {
      "id" : "Integer",
      "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
      "resolved" : "Boolean",
      "name" : "String",
      "default-value" : "String"
    }
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <disabled>Boolean</disabled>
  <rulegroup-disabled>Boolean</rulegroup-disabled>
  <edit-version>Integer</edit-version>
  <source-address>
    <exclude-list>Boolean</exclude-list>
    <addresses>
      <address-reference>
        <address_refs>
          <addressType>IPADDRESS</addressType>
          <addressType>DELETED_1</addressType>
          <addressType>GROUP</addressType>
          <addressType>RANGE</addressType>
          <addressType>NETWORK</addressType>
          <addressType>INTERNET</addressType>
          <addressType>WILDCARD</addressType>
          <addressType>DNS</addressType>
          <addressType>POLYMORPHIC</addressType>
          <addressType>ANY</addressType>
          <addressType>ANY_IPV4</addressType>
          <addressType>ANY_IPV6</addressType>
          <addressType>ALL_IPV6</addressType>
          <addressType>DYNAMIC_ADDRESS_GROUP</addressType>
          <addressType>Z_TYPE_IMPORT</addressType>
          <addressType>IPS_TYPE_IMPORT</addressType>
          <addressType>FEED_TYPE</addressType>
          <ipAddress>String</ipAddress>
          <hostName>String</hostName>
          <dnsAddressType>IPV4_ONLY</dnsAddressType>
          <dnsAddressType>IPV6_ONLY</dnsAddressType>
          <addressVersion>IPV4</addressVersion>
          <addressVersion>IPV6</addressVersion>
          <addressVersion>MIXED</addressVersion>
          <zone>String</zone>
          <variableId>Integer</variableId>
          <hashKey>String</hashKey>
          <addressBookName>String</addressBookName>
          <associatedMetadata>String</associatedMetadata>
          <parentAddressGroups>
            <serialVersionUID>long</serialVersionUID>
            <DEFAULT_CAPACITY>int</DEFAULT_CAPACITY>
            <EMPTY_ELEMENTDATA>[]</EMPTY_ELEMENTDATA>

<DEFAULTCAPACITY_EMPTY_ELEMENTDATA>[]</DEFAULTCAPACITY_EMPTY_ELEMENTDATA>
            <elementData>[]</elementData>
            <size>int</size>
            <MAX_ARRAY_SIZE>int</MAX_ARRAY_SIZE>
          </parentAddressGroups>
        </address_refs>
        <id>String</id>
```


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```
        <uuid>String</uuid>
        <name>String</name>
        <address-type>IPADDRESS</address-type>
        <address-type>DELETED_1</address-type>
        <address-type>GROUP</address-type>
        <address-type>RANGE</address-type>
        <address-type>NETWORK</address-type>
        <address-type>INTERNET</address-type>
        <address-type>WILDCARD</address-type>
        <address-type>DNS</address-type>
        <address-type>POLYMORPHIC</address-type>
        <address-type>ANY</address-type>
        <address-type>ANY_IPV4</address-type>
        <address-type>ANY_IPV6</address-type>
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
        <variable-id>Integer</variable-id>
      </address-reference>
    </addresses>
  </source-address>
  <application>
    <id>Integer</id>
    <name>String</name>
  </application>
  <action-data>
    <dscpcode>Integer</dscpcode>
    <action>String</action>
  </action-data>
  <name>String</name>
  <version>Integer</version>
  <id>Integer</id>
  <rule-group-type>CUSTOM</rule-group-type>
  <rule-group-type>ZONE</rule-group-type>
  <rule-group-type>GLOBAL</rule-group-type>
  <rule-order>Integer</rule-order>
  <attacks>
    <reference>
      <id>Integer</id>
      <name>String</name>
    </reference>
  </attacks>
  <policy-id>Integer</policy-id>
  <destination-address>
    <exclude-list>Boolean</exclude-list>
    <addresses>
      <address-reference>
        <address_refs>
          <addressType>IPADDRESS</addressType>
          <addressType>DELETED_1</addressType>
          <addressType>GROUP</addressType>
          <addressType>RANGE</addressType>
          <addressType>NETWORK</addressType>
          <addressType>INTERNET</addressType>
          <addressType>WILDCARD</addressType>
          <addressType>DNS</addressType>
          <addressType>POLYMORPHIC</addressType>
          <addressType>ANY</addressType>
          <addressType>ANY_IPV4</addressType>
          <addressType>ANY_IPV6</addressType>
          <addressType>ALL_IPV6</addressType>
          <addressType>DYNAMIC_ADDRESS_GROUP</addressType>
```


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```
                <addressType>Z_TYPE_IMPORT</addressType>
                <addressType>IPS_TYPE_IMPORT</addressType>
                <addressType>FEED_TYPE</addressType>
                <ipAddress>String</ipAddress>
                <hostName>String</hostName>
                <dnsAddressType>IPV4_ONLY</dnsAddressType>
                <dnsAddressType>IPV6_ONLY</dnsAddressType>
                <addressVersion>IPV4</addressVersion>
                <addressVersion>IPV6</addressVersion>
                <addressVersion>MIXED</addressVersion>
                <zone>String</zone>
                <variableId>Integer</variableId>
                <hashKey>String</hashKey>
                <addressBookName>String</addressBookName>
                <associatedMetadata>String</associatedMetadata>
                <parentAddressGroups>
                  <serialVersionUID>long</serialVersionUID>
                  <DEFAULT_CAPACITY>int</DEFAULT_CAPACITY>
                  <EMPTY_ELEMENTDATA>[]</EMPTY_ELEMENTDATA>

<DEFAULTCAPACITY_EMPTY_ELEMENTDATA>[]</DEFAULTCAPACITY_EMPTY_ELEMENTDATA>
                  <elementData>[]</elementData>
                  <size>int</size>
                  <MAX_ARRAY_SIZE>int</MAX_ARRAY_SIZE>
                </parentAddressGroups>
              </address_refs>
              <id>String</id>
              <uuid>String</uuid>
              <name>String</name>
              <address-type>IPADDRESS</address-type>
              <address-type>DELETED_1</address-type>
              <address-type>GROUP</address-type>
              <address-type>RANGE</address-type>
              <address-type>NETWORK</address-type>
              <address-type>INTERNET</address-type>
              <address-type>WILDCARD</address-type>
              <address-type>DNS</address-type>
              <address-type>POLYMORPHIC</address-type>
              <address-type>ANY</address-type>
              <address-type>ANY_IPV4</address-type>
              <address-type>ANY_IPV6</address-type>
              <address-type>ALL_IPV6</address-type>
              <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
              <address-type>Z_TYPE_IMPORT</address-type>
              <address-type>IPS_TYPE_IMPORT</address-type>
              <address-type>FEED_TYPE</address-type>
              <variable-id>Integer</variable-id>
            </address-reference>
          </addresses>
        </destination-address>
        <rule-type>RULE</rule-type>
        <rule-type>RULEGROUP</rule-type>
        <rule-group-id>Integer</rule-group-id>
        <ips-type>String</ips-type>
        <config-data>
          <alert>Boolean</alert>
          <severity>String</severity>
          <post-attack-timeout>Integer</post-attack-timeout>
          <log>Boolean</log>
          <refresh-timeout>Boolean</refresh-timeout>
          <terminal>Boolean</terminal>
          <target>String</target>
          <log-attacks>Boolean</log-attacks>
          <packet-log>Boolean</packet-log>
```


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```
    <pre-attack>Integer</pre-attack>
    <log-create>Boolean</log-create>
    <ip-action>String</ip-action>
    <timeout>Integer</timeout>
    <post-attack>Integer</post-attack>
  </config-data>
  <destination-zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <zone-type>AMS</zone-type>
    <resolved>Boolean</resolved>
    <name>String</name>
    <default-value>String</default-value>
  </destination-zone>
  <description>String</description>
  <source-zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <zone-type>AMS</zone-type>
    <resolved>Boolean</resolved>
    <name>String</name>
    <default-value>String</default-value>
  </source-zone>
</rule>
```

Sample JSON Output:

```
{
  "rule" : {
    "disabled" : "Boolean",
    "rulegroup-disabled" : "Boolean",
    "edit-version" : "Integer",
    "source-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
            }
          } ],
          "id" : "String",
          "uuid" : "String",
```


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```
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "uri" : "String"
    },
    "application" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "uri" : "String"
    },
    "action-data" : {
      "dscpcode" : "Integer",
      "action" : "String",
      "uri" : "String"
    },
    "name" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "rule-group-type" : [ "CUSTOM", "ZONE", "GLOBAL" ],
    "rule-order" : "Integer",
    "attacks" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "policy-id" : "Integer",
    "destination-address" : {
      "exclude-list" : "Boolean",
      "addresses" : {
        "address-reference" : [ {
          "address_refs" : [ {
            "members" : [ ],
            "addressType" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "dnsAddressType" : [ "IPV4_ONLY", "IPV6_ONLY" ],
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String",
            "associatedMetadata" : "String",
            "parentAddressGroups" : {
              "serialVersionUID" : "long",
              "DEFAULT_CAPACITY" : "int",
              "EMPTY_ELEMENTDATA" : "[]",
              "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
              "elementData" : "[]",
              "size" : "int",
              "MAX_ARRAY_SIZE" : "int"
```


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```
            }
           } ],
           "id" : "String",
           "uuid" : "String",
           "domain-id" : "Integer",
           "name" : "String",
           "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
           "variable-id" : "Integer",
           "uri" : "String"
         } ],
         "uri" : "String"
       },
       "uri" : "String"
     },
     "last-modified-by-user-name" : "String",
     "rule-type" : [ "RULE", "RULEGROUP" ],
     "rule-group-id" : "Integer",
     "ips-type" : "String",
     "config-data" : {
       "alert" : "Boolean",
       "severity" : "String",
       "post-attack-timeout" : "Integer",
       "log" : "Boolean",
       "refresh-timeout" : "Boolean",
       "terminal" : "Boolean",
       "target" : "String",
       "log-attacks" : "Boolean",
       "packet-log" : "Boolean",
       "pre-attack" : "Integer",
       "log-create" : "Boolean",
       "ip-action" : "String",
       "timeout" : "Integer",
       "post-attack" : "Integer",
       "uri" : "String"
     },
     "created-by-user-name" : "String",
     "destination-zone" : {
       "id" : "Integer",
       "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
       "resolved" : "Boolean",
       "domain-id" : "Integer",
       "name" : "String",
       "uri" : "String",
       "default-value" : "String"
     },
     "description" : "String",
     "uri" : "String",
     "source-zone" : {
       "id" : "Integer",
       "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
       "resolved" : "Boolean",
       "domain-id" : "Integer",
       "name" : "String",
       "default-value" : "String",
       "uri" : "String"
     },
     "created-time" : "Date",
     "last-modified-time" : "Date"
   }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <disabled>Boolean</disabled>
  <rulegroup-disabled>Boolean</rulegroup-disabled>
  <edit-version>Integer</edit-version>
  <source-address>
    <exclude-list>Boolean</exclude-list>
    <addresses>
      <address-reference>
        <address_refs>
          <addressType>IPADDRESS</addressType>
          <addressType>DELETED_1</addressType>
          <addressType>GROUP</addressType>
          <addressType>RANGE</addressType>
          <addressType>NETWORK</addressType>
          <addressType>INTERNET</addressType>
          <addressType>WILDCARD</addressType>
          <addressType>DNS</addressType>
          <addressType>POLYMORPHIC</addressType>
          <addressType>ANY</addressType>
          <addressType>ANY_IPV4</addressType>
          <addressType>ANY_IPV6</addressType>
          <addressType>ALL_IPV6</addressType>
          <addressType>DYNAMIC_ADDRESS_GROUP</addressType>
          <addressType>Z_TYPE_IMPORT</addressType>
          <addressType>IPS_TYPE_IMPORT</addressType>
          <addressType>FEED_TYPE</addressType>
          <ipAddress>String</ipAddress>
          <hostName>String</hostName>
          <dnsAddressType>IPV4_ONLY</dnsAddressType>
          <dnsAddressType>IPV6_ONLY</dnsAddressType>
          <addressVersion>IPV4</addressVersion>
          <addressVersion>IPV6</addressVersion>
          <addressVersion>MIXED</addressVersion>
          <zone>String</zone>
          <variableId>Integer</variableId>
          <hashKey>String</hashKey>
          <addressBookName>String</addressBookName>
          <associatedMetadata>String</associatedMetadata>
          <parentAddressGroups>
            <serialVersionUID>long</serialVersionUID>
            <DEFAULT_CAPACITY>int</DEFAULT_CAPACITY>
            <EMPTY_ELEMENTDATA>[]</EMPTY_ELEMENTDATA>

<DEFAULTCAPACITY_EMPTY_ELEMENTDATA>[]</DEFAULTCAPACITY_EMPTY_ELEMENTDATA>
            <elementData>[]</elementData>
            <size>int</size>
            <MAX_ARRAY_SIZE>int</MAX_ARRAY_SIZE>
          </parentAddressGroups>
        </address_refs>
        <id>String</id>
        <uuid>String</uuid>
        <domain-id>Integer</domain-id>
        <name>String</name>
        <address-type>IPADDRESS</address-type>
        <address-type>DELETED_1</address-type>
        <address-type>GROUP</address-type>
        <address-type>RANGE</address-type>
        <address-type>NETWORK</address-type>
        <address-type>INTERNET</address-type>
        <address-type>WILDCARD</address-type>
        <address-type>DNS</address-type>
```


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```
        <address-type>POLYMORPHIC</address-type>
        <address-type>ANY</address-type>
        <address-type>ANY_IPV4</address-type>
        <address-type>ANY_IPV6</address-type>
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
        <variable-id>Integer</variable-id>
        <uri>String</uri>
      </address-reference>
      <uri>String</uri>
    </addresses>
    <uri>String</uri>
  </source-address>
  <application>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
  </application>
  <action-data>
    <dscpcode>Integer</dscpcode>
    <action>String</action>
    <uri>String</uri>
  </action-data>
  <name>String</name>
  <version>Integer</version>
  <id>Integer</id>
  <rule-group-type>CUSTOM</rule-group-type>
  <rule-group-type>ZONE</rule-group-type>
  <rule-group-type>GLOBAL</rule-group-type>
  <rule-order>Integer</rule-order>
  <attacks>
    <reference>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
    </reference>
    <uri>String</uri>
  </attacks>
  <policy-id>Integer</policy-id>
  <destination-address>
    <exclude-list>Boolean</exclude-list>
    <addresses>
      <address-reference>
        <address_refs>
          <addressType>IPADDRESS</addressType>
          <addressType>DELETED_1</addressType>
          <addressType>GROUP</addressType>
          <addressType>RANGE</addressType>
          <addressType>NETWORK</addressType>
          <addressType>INTERNET</addressType>
          <addressType>WILDCARD</addressType>
          <addressType>DNS</addressType>
          <addressType>POLYMORPHIC</addressType>
          <addressType>ANY</addressType>
          <addressType>ANY_IPV4</addressType>
          <addressType>ANY_IPV6</addressType>
          <addressType>ALL_IPV6</addressType>
          <addressType>DYNAMIC_ADDRESS_GROUP</addressType>
          <addressType>Z_TYPE_IMPORT</addressType>
```


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```
                <addressType>IPS_TYPE_IMPORT</addressType>
                <addressType>FEED_TYPE</addressType>
                <ipAddress>String</ipAddress>
                <hostName>String</hostName>
                <dnsAddressType>IPV4_ONLY</dnsAddressType>
                <dnsAddressType>IPV6_ONLY</dnsAddressType>
                <addressVersion>IPV4</addressVersion>
                <addressVersion>IPV6</addressVersion>
                <addressVersion>MIXED</addressVersion>
                <zone>String</zone>
                <variableId>Integer</variableId>
                <hashKey>String</hashKey>
                <addressBookName>String</addressBookName>
                <associatedMetadata>String</associatedMetadata>
                <parentAddressGroups>
                  <serialVersionUID>long</serialVersionUID>
                  <DEFAULT_CAPACITY>int</DEFAULT_CAPACITY>
                  <EMPTY_ELEMENTDATA>[]</EMPTY_ELEMENTDATA>

<DEFAULTCAPACITY_EMPTY_ELEMENTDATA>[]</DEFAULTCAPACITY_EMPTY_ELEMENTDATA>
                  <elementData>[]</elementData>
                  <size>int</size>
                  <MAX_ARRAY_SIZE>int</MAX_ARRAY_SIZE>
                </parentAddressGroups>
              </address_refs>
              <id>String</id>
              <uuid>String</uuid>
              <domain-id>Integer</domain-id>
              <name>String</name>
              <address-type>IPADDRESS</address-type>
              <address-type>DELETED_1</address-type>
              <address-type>GROUP</address-type>
              <address-type>RANGE</address-type>
              <address-type>NETWORK</address-type>
              <address-type>INTERNET</address-type>
              <address-type>WILDCARD</address-type>
              <address-type>DNS</address-type>
              <address-type>POLYMORPHIC</address-type>
              <address-type>ANY</address-type>
              <address-type>ANY_IPV4</address-type>
              <address-type>ANY_IPV6</address-type>
              <address-type>ALL_IPV6</address-type>
              <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
              <address-type>Z_TYPE_IMPORT</address-type>
              <address-type>IPS_TYPE_IMPORT</address-type>
              <address-type>FEED_TYPE</address-type>
              <variable-id>Integer</variable-id>
              <uri>String</uri>
            </address-reference>
            <uri>String</uri>
          </addresses>
          <uri>String</uri>
        </destination-address>
        <last-modified-by-user-name>String</last-modified-by-user-name>
        <rule-type>RULE</rule-type>
        <rule-type>RULEGROUP</rule-type>
        <rule-group-id>Integer</rule-group-id>
        <ips-type>String</ips-type>
        <config-data>
          <alert>Boolean</alert>
          <severity>String</severity>
          <post-attack-timeout>Integer</post-attack-timeout>
          <log>Boolean</log>
          <refresh-timeout>Boolean</refresh-timeout>
```


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```
    <terminal>Boolean</terminal>
    <target>String</target>
    <log-attacks>Boolean</log-attacks>
    <packet-log>Boolean</packet-log>
    <pre-attack>Integer</pre-attack>
    <log-create>Boolean</log-create>
    <ip-action>String</ip-action>
    <timeout>Integer</timeout>
    <post-attack>Integer</post-attack>
    <uri>String</uri>
  </config-data>
  <created-by-user-name>String</created-by-user-name>
  <destination-zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <zone-type>AMS</zone-type>
    <resolved>Boolean</resolved>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <uri>String</uri>
    <default-value>String</default-value>
  </destination-zone>
  <description>String</description>
  <uri>String</uri>
  <source-zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <zone-type>AMS</zone-type>
    <resolved>Boolean</resolved>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <default-value>String</default-value>
    <uri>String</uri>
  </source-zone>
  <created-time>Date</created-time>
  <last-modified-time>Date</last-modified-time>
</rule>
```


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CHAPTER 4

VPN Management RESTful Web Services

The following opertions can be performed using Secuirty Director VPN Management RESTful Web Services

Retrieve VPN Tunnel Status

Fetches the status and performance metrics of a VPN tunnel over a specified time interval.

URI	/api/juniper/seci/devicemonitor-management/vpn/tunnel-status?vpnName=String&startTime=long&endTime=long&aggregationFunc=AggregationFunc
HTTP method	GET
Content-Type	None
Accept-Type	application/json
Access-Control	null

Sample JSON Output:

```
{
  "tunnel-status" : {
    "vpnName" : "String",
    "samples" : [ {
      "sampleTime" : "Long",
      "tunnelsUpCount" : "Integer",
      "tunnelsDownCount" : "Integer"
    } ]
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<tunnel-status>
  <vpnName>String</vpnName>
  <samples>
    <sampleTime>Long</sampleTime>
    <tunnelsUpCount>Integer</tunnelsUpCount>
    <tunnelsDownCount>Integer</tunnelsDownCount>
  </samples>
</tunnel-status>
```

Publish VPN

This request is used to schedule a job and publish a VPN. After the publish, you must use the device update RESTful Web Services to update the devices.

URI	/api/juniper/sd/vpn-management/provisioning/publish-vpn?update=boolean
HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.publish+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.vpn-management.publish+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.fwpolicy-provisioning.monitorable-task-instances+xml;version=1;q=0.01 application/vnd.juniper.sd.fwpolicy-provisioning.monitorable-task-instances+json;version=1;q=0.01
Access-Control	PublishVPN

Sample JSON Input

```
{
  "publish" : {
    "policy-ids" : {
      "policy-id" : [ "Integer" ]
    },
    "delete-oldest-snapshot" : "Boolean"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<publish>
  <policy-ids>
    <policy-id>Integer</policy-id>
  </policy-ids>
  <delete-oldest-snapshot>Boolean</delete-oldest-snapshot>
</publish>
```

Sample JSON Output:

```
{
  "monitorable-task-instances" : {
    "monitorable-task-instance-managed-object" : [ {
      "supports-recurrence" : "Boolean",
      "repeat-cron" : "String",
      "mo-state" : "String",
      "schedule-string" : "String",
      "job-status" : [ "UNDETERMINED", "INCOMPLETE", "FAILURE", "SUCCESS", "CANCELLED",
"DEPRECATED" ],
      "job-parameter-data-string" : "String",
      "gui-name" : "String",
      "job-state" : [ "SCHEDULED", "QUEUED", "STARTING", "INPROGRESS", "DONE", "CANCELLING",
"DISABLED" ],
      "start-time-string-rest" : "String",
      "device-image-name" : "String",
      "end-time" : "Date",
      "task-name" : "String",
      "service-name" : "String",
      "id" : "String",
      "start-time" : "Date",
      "operation" : "String",
      "details" : "String",
      "details-action-type" : "String",
      "name" : "String",
      "scheduled-start-time-string-rest" : "String",
      "retry-of-id" : "Integer",
      "scheduled-start-time" : "Date",
      "script-bundle-selected" : "String",
      "details-action-url" : "String",
      "end-time-string-rest" : "String",
      "job-params-action-url" : "String",
      "percent-complete" : "Double",
      "is-enabled" : "Boolean",
      "retry-group-id" : "Integer",
      "job-params-summary" : "String",
      "complete-time" : "Integer",
      "user" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<monitorable-task-instances>
  <monitorable-task-instance-managed-object>
    <supports-recurrence>Boolean</supports-recurrence>
    <repeat-cron>String</repeat-cron>
    <mo-state>String</mo-state>
    <schedule-string>String</schedule-string>
    <job-status>UNDETERMINED</job-status>
    <job-status>INCOMPLETE</job-status>
    <job-status>FAILURE</job-status>
    <job-status>SUCCESS</job-status>
    <job-status>CANCELLED</job-status>
    <job-status>DEPRECATED</job-status>
    <job-parameter-data-string>String</job-parameter-data-string>
    <gui-name>String</gui-name>
    <job-state>SCHEDULED</job-state>
    <job-state>QUEUED</job-state>
    <job-state>STARTING</job-state>
    <job-state>INPROGRESS</job-state>
    <job-state>DONE</job-state>
    <job-state>CANCELLING</job-state>
    <job-state>DISABLED</job-state>
    <start-time-string-rest>String</start-time-string-rest>
    <device-image-name>String</device-image-name>
    <end-time>Date</end-time>
    <task-name>String</task-name>
    <service-name>String</service-name>
    <id>String</id>
    <start-time>Date</start-time>
    <operation>String</operation>
    <details>String</details>
    <details-action-type>String</details-action-type>
    <name>String</name>
    <scheduled-start-time-string-rest>String</scheduled-start-time-string-rest>
    <retry-of-id>Integer</retry-of-id>
    <scheduled-start-time>Date</scheduled-start-time>
    <script-bundle-selected>String</script-bundle-selected>
    <details-action-url>String</details-action-url>
    <end-time-string-rest>String</end-time-string-rest>
    <job-params-action-url>String</job-params-action-url>
    <percent-complete>Double</percent-complete>
    <is-enabled>Boolean</is-enabled>
    <retry-group-id>Integer</retry-group-id>
    <job-params-summary>String</job-params-summary>
    <complete-time>Integer</complete-time>
    <user>String</user>
    <uri>String</uri>
  </monitorable-task-instance-managed-object>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</monitorable-task-instances>
```

Delete VPN

This request is used to delete a VPN.

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URI	/api/juniper/sd/vpn-management/ipsec-vpns/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	VPN.delete

Modify IPsec VPN

Modifies an existing IPsec VPN configuration.

URI	/api/juniper/sd/vpn-management/ipsec-vpns/{id}?overwriteChanges=boolean
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.vpn-management.ipsec-vpns+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpn+xml;version=2;q=0.02 application/vnd.juniper.sd.vpn-management.ipsec-vpn+json;version=2;q=0.02
Access-Control	VPN.update

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Sample JSON Input


```
{
  "ipsec-vpn" : {
    "device-modification" : {
      "devices-to-add" : {
        "vpn-device-bean" : [ {
          "certificate" : "String",
          "trusted-ca-group" : "String",
          "is-hub" : "boolean",
          "ike-address" : "String",
          "bgp-as-number" : "Long",
          "ike-group-id" : "String",
          "gateway-behind-nat" : "Boolean",
          "ike-id" : "String",
          "ike-type" : "String",
          "preshared-key" : "String",
          "initiator" : "boolean",
          "external-if-name" : "String",
          "device-authentication" : {
            "name" : "String",
            "id" : "Integer"
          },
          "ssl-vpn-profile" : "String",
          "nat-traffic" : "Boolean",
          "interface" : "String",
          "split-tunnel" : "Boolean",
          "proxy-id" : "String",
          "tunnel-zone" : "String",
          "protected-networks" : {
            "protected-network" : [ {
              "name" : "String",
              "id" : "Integer"
            } ],
            "totalSize" : "Integer"
          },
          "protected-network-zones" : {
            "protected-network-zon" : [ "String" ],
            "totalSize" : "Integer"
          },
          "export-default-routes" : "boolean",
          "export-static-routes" : "boolean",
          "export-ospf-routes" : "boolean",
          "export-rip-routes" : "boolean",
          "metric" : "Long",
          "extranet-device" : "boolean",
          "tunnel-vr" : "String",
          "device-ip" : "String",
          "device-name" : "String",
          "device-moid" : "String",
          "devJunosVersion" : "String",
          "connection-mode" : "String",
          "ssl-vpn" : "Boolean",
          "windows-logon" : "Boolean",
          "remote-user-domain-name" : "String",
          "remote-user-mode" : "String",
          "disconnect-at-logoff" : "Boolean",
          "flush-credential" : "Boolean",
          "lead-time-duration" : "int",
          "eap-authentication" : "Boolean",
          "auto-dialog-open" : "Boolean",
          "remote-user-authentication" : "String",
          "biometric-authentication" : "Boolean",
          "eap-tls" : "Boolean",
```


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```
    "default-profile" : "Boolean",
    "certificates" : "Boolean",
    "expiry-warning" : "Boolean",
    "warn-before-expiry-interval" : "Integer",
    "pin-request-per-connection" : "Boolean",
    "remote_user_dead_peer_detection" : "Boolean",
    "remote-user-dead-peer-detection-interval" : "Integer",
    "remote-user-dead-peer-detection-threshold" : "Integer",
    "source-address" : "String"
  } ]
},
"device-mo-ids-to-delete" : {
  "device-mo-ids-to-delete" : [ "String" ]
},
"devices-to-modify" : {
  "vpn-device-bean" : [ {
    "certificate" : "String",
    "trusted-ca-group" : "String",
    "is-hub" : "boolean",
    "ike-address" : "String",
    "bgp-as-number" : "Long",
    "ike-group-id" : "String",
    "gateway-behind-nat" : "Boolean",
    "ike-id" : "String",
    "ike-type" : "String",
    "preshared-key" : "String",
    "initiator" : "boolean",
    "external-if-name" : "String",
    "device-authentication" : {
      "name" : "String",
      "id" : "Integer"
    },
    "ssl-vpn-profile" : "String",
    "nat-traffic" : "Boolean",
    "interface" : "String",
    "split-tunnel" : "Boolean",
    "proxy-id" : "String",
    "tunnel-zone" : "String",
    "protected-networks" : {
      "protected-network" : [ {
        "name" : "String",
        "id" : "Integer"
      } ],
      "totalSize" : "Integer"
    },
    "protected-network-zones" : {
      "protected-network-zon" : [ "String" ],
      "totalSize" : "Integer"
    },
    "protected-network-interfaces" : {
      "protected-network-interface" : [ "String" ],
      "totalSize" : "Integer"
    },
    "tunnel-settings" : {
      "tunnels" : [ {
        "id" : "int",
        "is-tunnel-edit" : "Boolean",
        "device-ip" : "String",
        "external-if-name" : "String",
        "tunnel-zone" : "String",
        "tunnel-address" : "String",
        "tunnel-if-name" : "String",
        "ike-id" : "String",
        "ike-id-type" : "String",
```


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```
        "vpn-name-in-device" : "String",
        "preshared-key" : "String",
        "proxy-id" : "String",
        "remote-proxy-id" : "String",
        "gw-address" : "String",
        "max-transmission-unit" : "Long",
        "bgp-as-number" : "Long",
        "ike-gateway-name" : "String",
        "ike-policy-name" : "String",
        "ipsec-policy-name" : "String"
       } ],
       "totalSize" : "Integer"
      },
      "export-default-routes" : "boolean",
      "export-static-routes" : "boolean",
      "export-ospf-routes" : "boolean",
      "export-rip-routes" : "boolean",
      "metric" : "Long",
      "extranet-device" : "boolean",
      "tunnel-vr" : "String",
      "device-ip" : "String",
      "device-name" : "String",
      "device-moid" : "String",
      "devJunosVersion" : "String",
      "connection-mode" : "String",
      "ssl-vpn" : "Boolean",
      "windows-logon" : "Boolean",
      "remote-user-domain-name" : "String",
      "remote-user-mode" : "String",
      "disconnect-at-logoff" : "Boolean",
      "flush-credential" : "Boolean",
      "lead-time-duration" : "Integer",
      "eap-authentication" : "Boolean",
      "auto-dialog-open" : "Boolean",
      "remote-user-authentication" : "String",
      "biometric-authentication" : "Boolean",
      "eap-tls" : "Boolean",
      "default-profile" : "Boolean",
      "certificates" : "Boolean",
      "expiry-warning" : "Boolean",
      "warn-before-expiry-interval" : "Integer",
      "pin-request-per-connection" : "Boolean",
      "remote_user_dead_peer_detection" : "Boolean",
      "remote-user-dead-peer-detection-interval" : "Integer",
      "remote-user-dead-peer-detection-threshold" : "Integer",
      "source-address" : "String"
     } ]
    }
  },
  "id" : "Integer",
  "version" : "Integer",
  "edit-version" : "Integer",
  "name" : "String",
  "max-retrans-time" : "Integer",
  "ospf-area-id" : "Long",
  "preshared-key" : "String",
  "unique-key-per-tunnel" : "boolean",
  "preshared-key-type" : [ "Auto-generate", "Manual", "None" ],
  "routing-type" : [ "OSPF", "RIP", "Static Routing", "No Routing", "BGP", "Trafic Selector" ],
  "tunnel-multi-point-size" : "Integer",
  "max-transmission-unit" : "Long",
  "tunnel-ip-range" : {
    "mask" : "Integer",
    "network-ip" : "String"
```


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```
    },
    "tunnel-interface-type" : [ "Numbered", "Unnumbered" ],
    "type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and
Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP
Client", "Remote VPN Juniper Secure Connect", "None" ],
    "vpn-tunnel-mode-types" : [ "Route Based", "Policy Based" ],
    "profile" : {
      "name" : "String",
      "id" : "Integer"
    },
    "profile-type" : [ "SHARED", "INLINE" ],
    "description" : "String",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "allow-spoke-to-spoke-communication" : "boolean",
    "advpn-settings" : {
      "shortcut-conn-limit" : "Long",
      "idle-threshold" : "Integer",
      "idle-time" : "Integer"
    },
    "multi-proxyid" : "boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<ipsec-vpn>
  <device-modification>
    <devices-to-add>
      <vpn-device-bean>
        <certificate>String</certificate>
        <trusted-ca-group>String</trusted-ca-group>
        <is-hub>boolean</is-hub>
        <ike-address>String</ike-address>
        <bgp-as-number>Long</bgp-as-number>
        <ike-group-id>String</ike-group-id>
        <gateway-behind-nat>Boolean</gateway-behind-nat>
        <ike-id>String</ike-id>
        <ike-type>String</ike-type>
        <preshared-key>String</preshared-key>
        <initiator>boolean</initiator>
        <external-if-name>String</external-if-name>
        <device-authentication>
          <name>String</name>
          <id>Integer</id>
        </device-authentication>
        <ssl-vpn-profile>String</ssl-vpn-profile>
        <nat-traffic>Boolean</nat-traffic>
        <interface>String</interface>
        <split-tunnel>Boolean</split-tunnel>
        <proxy-id>String</proxy-id>
        <tunnel-zone>String</tunnel-zone>
        <protected-networks>
          <protected-network>
            <name>String</name>
            <id>Integer</id>
          </protected-network>
          <totalSize>Integer</totalSize>
        </protected-networks>
        <protected-network-zones>
          <protected-network-zon>String</protected-network-zon>
          <totalSize>Integer</totalSize>
        </protected-network-zones>
        <export-default-routes>boolean</export-default-routes>
        <export-static-routes>boolean</export-static-routes>
        <export-ospf-routes>boolean</export-ospf-routes>
```


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```
      <export-rip-routes>boolean</export-rip-routes>
      <metric>Long</metric>
      <extranet-device>boolean</extranet-device>
      <tunnel-vr>String</tunnel-vr>
      <device-ip>String</device-ip>
      <device-name>String</device-name>
      <device-moid>String</device-moid>
      <devJunosVersion>String</devJunosVersion>
      <connection-mode>String</connection-mode>
      <ssl-vpn>Boolean</ssl-vpn>
      <windows-logon>Boolean</windows-logon>
      <remote-user-domain-name>String</remote-user-domain-name>
      <remote-user-mode>String</remote-user-mode>
      <disconnect-at-logoff>Boolean</disconnect-at-logoff>
      <flush-credential>Boolean</flush-credential>
      <lead-time-duration>int</lead-time-duration>
      <eap-authentication>Boolean</eap-authentication>
      <auto-dialog-open>Boolean</auto-dialog-open>
      <remote-user-authentication>String</remote-user-authentication>
      <biometric-authentication>Boolean</biometric-authentication>
      <eap-tls>Boolean</eap-tls>
      <default-profile>Boolean</default-profile>
      <certificates>Boolean</certificates>
      <expiry-warning>Boolean</expiry-warning>
      <warn-before-expiry-interval>Integer</warn-before-expiry-interval>
      <pin-request-per-connection>Boolean</pin-request-per-connection>
      <remote_user_dead_peer_detection>Boolean</remote_user_dead_peer_detection>
      <remote-user-dead-peer-detection-interval>Integer</remote-user-dead-peer-detection-interval>
      <remote-user-dead-peer-detection-threshold>Integer</remote-user-dead-peer-detection-threshold>
      <source-address>String</source-address>
    </vpn-device-bean>
  </devices-to-add>
  <device-mo-ids-to-delete>
    <device-mo-ids-to-delete>String</device-mo-ids-to-delete>
  </device-mo-ids-to-delete>
  <devices-to-modify>
    <vpn-device-bean>
      <certificate>String</certificate>
      <trusted-ca-group>String</trusted-ca-group>
      <is-hub>boolean</is-hub>
      <ike-address>String</ike-address>
      <bgp-as-number>Long</bgp-as-number>
      <ike-group-id>String</ike-group-id>
      <gateway-behind-nat>Boolean</gateway-behind-nat>
      <ike-id>String</ike-id>
      <ike-type>String</ike-type>
      <preshared-key>String</preshared-key>
      <initiator>boolean</initiator>
      <external-if-name>String</external-if-name>
      <device-authentication>
        <name>String</name>
        <id>Integer</id>
      </device-authentication>
      <ssl-vpn-profile>String</ssl-vpn-profile>
      <nat-traffic>Boolean</nat-traffic>
      <interface>String</interface>
      <split-tunnel>Boolean</split-tunnel>
      <proxy-id>String</proxy-id>
      <tunnel-zone>String</tunnel-zone>
      <protected-networks>
        <protected-network>
          <name>String</name>
```


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```
      <id>Integer</id>
    </protected-network>
    <totalSize>Integer</totalSize>
</protected-networks>
<protected-network-zones>
    <protected-network-zon>String</protected-network-zon>
    <totalSize>Integer</totalSize>
</protected-network-zones>
<protected-network-interfaces>
    <protected-network-interface>String</protected-network-interface>
    <totalSize>Integer</totalSize>
</protected-network-interfaces>
<tunnel-settings>
    <tunnels>
      <id>int</id>
      <is-tunnel-edit>Boolean</is-tunnel-edit>
      <device-ip>String</device-ip>
      <external-if-name>String</external-if-name>
      <tunnel-zone>String</tunnel-zone>
      <tunnel-address>String</tunnel-address>
      <tunnel-if-name>String</tunnel-if-name>
      <ike-id>String</ike-id>
      <ike-id-type>String</ike-id-type>
      <vpn-name-in-device>String</vpn-name-in-device>
      <preshared-key>String</preshared-key>
      <proxy-id>String</proxy-id>
      <remote-proxy-id>String</remote-proxy-id>
      <gw-address>String</gw-address>
      <max-transmission-unit>Long</max-transmission-unit>
      <bgp-as-number>Long</bgp-as-number>
      <ike-gateway-name>String</ike-gateway-name>
      <ike-policy-name>String</ike-policy-name>
      <ipsec-policy-name>String</ipsec-policy-name>
    </tunnels>
    <totalSize>Integer</totalSize>
</tunnel-settings>
<export-default-routes>boolean</export-default-routes>
<export-static-routes>boolean</export-static-routes>
<export-ospf-routes>boolean</export-ospf-routes>
<export-rip-routes>boolean</export-rip-routes>
<metric>Long</metric>
<extranet-device>boolean</extranet-device>
<tunnel-vr>String</tunnel-vr>
<device-ip>String</device-ip>
<device-name>String</device-name>
<device-moid>String</device-moid>
<devJunosVersion>String</devJunosVersion>
<connection-mode>String</connection-mode>
<ssl-vpn>Boolean</ssl-vpn>
<windows-logon>Boolean</windows-logon>
<remote-user-domain-name>String</remote-user-domain-name>
<remote-user-mode>String</remote-user-mode>
<disconnect-at-logoff>Boolean</disconnect-at-logoff>
<flush-credential>Boolean</flush-credential>
<lead-time-duration>Integer</lead-time-duration>
<eap-authentication>Boolean</eap-authentication>
<auto-dialog-open>Boolean</auto-dialog-open>
<remote-user-authentication>String</remote-user-authentication>
<biometric-authentication>Boolean</biometric-authentication>
<eap-tls>Boolean</eap-tls>
<default-profile>Boolean</default-profile>
<certificates>Boolean</certificates>
<expiry-warning>Boolean</expiry-warning>
<warn-before-expiry-interval>Integer</warn-before-expiry-interval>
```


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```
            <pin-request-per-connection>Boolean</pin-request-per-connection>
            <remote_user_dead_peer_detection>Boolean</remote_user_dead_peer_detection>
            <remote-user-dead-peer-detection-interval>Integer</remote-user-dead-peer-detection-interval>
            <remote-user-dead-peer-detection-threshold>Integer</remote-user-dead-peer-detection-threshold>
            <source-address>String</source-address>
          </vpn-device-bean>
        </devices-to-modify>
      </device-modification>
      <id>Integer</id>
      <version>Integer</version>
      <edit-version>Integer</edit-version>
      <name>String</name>
      <max-retrans-time>Integer</max-retrans-time>
      <ospf-area-id>Long</ospf-area-id>
      <preshared-key>String</preshared-key>
      <unique-key-per-tunnel>boolean</unique-key-per-tunnel>
      <preshared-key-type>Auto-generate</preshared-key-type>
      <preshared-key-type>Manual</preshared-key-type>
      <preshared-key-type>None</preshared-key-type>
      <routing-type>OSPF</routing-type>
      <routing-type>RIP</routing-type>
      <routing-type>Static Routing</routing-type>
      <routing-type>No Routing</routing-type>
      <routing-type>BGP</routing-type>
      <routing-type>Trafic Selector</routing-type>
      <tunnel-multi-point-size>Integer</tunnel-multi-point-size>
      <max-transmission-unit>Long</max-transmission-unit>
      <tunnel-ip-range>
        <mask>Integer</mask>
        <network-ip>String</network-ip>
      </tunnel-ip-range>
      <tunnel-interface-type>Numbered</tunnel-interface-type>
      <tunnel-interface-type>Unnumbered</tunnel-interface-type>
      <type>Hub and Spoke(Establishment All Peers)</type>
      <type>Full Mesh</type>
      <type>Site to Site</type>
      <type>Hub and Spoke(Establishment by Spokes)</type>
      <type>Hub and Spoke(ADVPN - Auto Discovery VPN)</type>
      <type>Remote VPN NCP Client</type>
      <type>Remote VPN Juniper Secure Connect</type>
      <type>None</type>
      <vpn-tunnel-mode-types>Route Based</vpn-tunnel-mode-types>
      <vpn-tunnel-mode-types>Policy Based</vpn-tunnel-mode-types>
      <profile>
        <name>String</name>
        <id>Integer</id>
      </profile>
      <profile-type>SHARED</profile-type>
      <profile-type>INLINE</profile-type>
      <description>String</description>
      <policy-state>DRAFT</policy-state>
      <policy-state>FINAL</policy-state>
      <allow-spoke-to-spoke-communication>boolean</allow-spoke-to-spoke-communication>
      <advpn-settings>
        <shortcut-conn-limit>Long</shortcut-conn-limit>
        <idle-threshold>Integer</idle-threshold>
        <idle-time>Integer</idle-time>
      </advpn-settings>
      <multi-proxyid>boolean</multi-proxyid>
    </ipsec-vpn>
```


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Sample JSON Output:


```
{
  "modify-vpn-response" : {
    "value" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<modify-vpn-response>
   <value>String</value>
</modify-vpn-response>
```


Get All Tunnels Of VPN

This request is used to get all the tunnels of a VPN. The details include peer device, VPN name, VPN profile, IKE ID, preshared key, external interface, tunnel interface, and tunnel zone. It supports global search for searching a device name or device IP.

URI	/api/juniper/sd/vpn-management/ipsec-vpns/{id}/tunnels
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns.tunnels+xml;version=2;q=0.02 application/vnd.juniper.sd.vpn-management.ipsec-vpns.tunnels+json;version=2;q=0.02
Access-Control	VPN.read

Sample JSON Output:


```
{
  "tunnels" : {
    "tunnel" : [ {
      "device-name" : "String",
      "external-if-name" : "String",
      "tunnel-zone" : "String",
      "tunnel-address" : "String",
      "peer-device" : {
        "device-name" : "String",
```


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```
      "device-ip" : "String",
      "uri" : "String",
      "link" : "String"
    },
    "traffic-selectors" : {
      "traffic-selector" : [ {
        "local-ip" : "String",
        "remote-ip" : "String",
        "name " : "String"
      } ]
    },
    "advpn-settings" : {
      "shortcut-conn-limit" : "String",
      "idle-threshold" : "Integer",
      "idle-time" : "Integer",
      "uri" : "String",
      "link" : "String"
    },
    "tunnel-if-name" : "String",
    "ike-id" : "String",
    "ike-type" : "String",
    "vpn-name-in-device" : "String",
    "local-proxyid" : "String",
    "remote-proxyid" : "String",
    "max-transmission-unit" : "Long",
    "ike-gateway-name" : "String",
    "ike-policy-name" : "String",
    "ipsec-policy-name" : "String",
    "preshared-key" : "String",
    "profile" : {
      "name" : "String",
      "id" : "Integer",
      "domain-id" : "Integer",
      "uri" : "String",
      "link" : "String"
    },
    "device-ip" : "String",
    "global" : "String",
    "edit-version" : "Integer",
    "version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "moid" : "String",
    "uri" : "String"
   } ],
   "uri" : "String",
   "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<tunnels>
  <tunnel>
    <device-name>String</device-name>
    <external-if-name>String</external-if-name>
    <tunnel-zone>String</tunnel-zone>
    <tunnel-address>String</tunnel-address>
    <peer-device>
      <device-name>String</device-name>
      <device-ip>String</device-ip>
```


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```
      <uri>String</uri>
      <link>String</link>
    </peer-device>
    <traffic-selectors>
      <traffic-selector>
        <local-ip>String</local-ip>
        <remote-ip>String</remote-ip>
        <name >String</name >
      </traffic-selector>
    </traffic-selectors>
    <advpn-settings>
      <shortcut-conn-limit>String</shortcut-conn-limit>
      <idle-threshold>Integer</idle-threshold>
      <idle-time>Integer</idle-time>
      <uri>String</uri>
      <link>String</link>
    </advpn-settings>
    <tunnel-if-name>String</tunnel-if-name>
    <ike-id>String</ike-id>
    <ike-type>String</ike-type>
    <vpn-name-in-device>String</vpn-name-in-device>
    <local-proxyid>String</local-proxyid>
    <remote-proxyid>String</remote-proxyid>
    <max-transmission-unit>Long</max-transmission-unit>
    <ike-gateway-name>String</ike-gateway-name>
    <ike-policy-name>String</ike-policy-name>
    <ipsec-policy-name>String</ipsec-policy-name>
    <preshared-key>String</preshared-key>
    <profile>
      <name>String</name>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
      <link>String</link>
    </profile>
    <device-ip>String</device-ip>
    <global>String</global>
    <edit-version>Integer</edit-version>
    <version>Integer</version>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-id>Integer</domain-id>
    <id>Integer</id>
    <moid>String</moid>
    <uri>String</uri>
  </tunnel>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</tunnels>
```


Get All VPNs

This request is used to get all the IPsec VPNs.

URI	/api/juniper/sd/vpn-management/ipsec-vpns

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HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns+xml;version=2;q=0.02 application/vnd.juniper.sd.vpn-management.ipsec-vpns+json;version=2;q=0.02
Access-Control	VPN.read

Sample JSON Output:


```
{
  "ipsec-vpns" : {
    "ipsec-vpn" : [ {
      "domain-id" : "Integer",
      "id" : "Integer",
      "global" : "String",
      "edit-version" : "Integer",
      "created-by-user-name" : "String",
      "name" : "String",
      "preshared-key" : "String",
      "unique-key-per-tunnel" : "Boolean",
      "multi-proxyid" : "Boolean",
      "preshared-key-type" : [ "Auto-generate", "Manual", "None" ],
      "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
      "policy-state" : [ "DRAFT", "FINAL" ],
      "type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and
Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP
Client", "Remote VPN Juniper Secure Connect", "None" ],
      "vpn-tunnel-mode-types" : [ "Route Based", "Policy Based" ],
      "profile" : {
        "name" : "String",
        "id" : "Integer",
        "domain-id" : "Integer",
        "uri" : "String",
        "link" : "String"
      },
      "advpn-settings" : {
        "shortcut-conn-limit" : "String",
        "idle-threshold" : "Integer",
        "idle-time" : "Integer",
        "uri" : "String",
        "link" : "String"
      },
      "profile-type" : [ "SHARED", "INLINE" ],
      "description" : "String",
      "uri" : "String",
      "link" : "String",
      "domain-name" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer",
    "link" : "String"
  }
```


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}

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ipsec-vpns>
  <ipsec-vpn>
    <domain-id>Integer</domain-id>
    <id>Integer</id>
    <global>String</global>
    <edit-version>Integer</edit-version>
    <created-by-user-name>String</created-by-user-name>
    <name>String</name>
    <preshared-key>String</preshared-key>
    <unique-key-per-tunnel>Boolean</unique-key-per-tunnel>
    <multi-proxyid>Boolean</multi-proxyid>
    <preshared-key-type>Auto-generate</preshared-key-type>
    <preshared-key-type>Manual</preshared-key-type>
    <preshared-key-type>None</preshared-key-type>
    <publish-state>Not Published</publish-state>
    <publish-state>Partially Published</publish-state>
    <publish-state>Published</publish-state>
    <publish-state>Re-Publish Required</publish-state>
    <publish-state>Deleted</publish-state>
    <policy-state>DRAFT</policy-state>
    <policy-state>FINAL</policy-state>
    <type>Hub and Spoke(Establishment All Peers)</type>
    <type>Full Mesh</type>
    <type>Site to Site</type>
    <type>Hub and Spoke(Establishment by Spokes)</type>
    <type>Hub and Spoke(ADVPN - Auto Discovery VPN)</type>
    <type>Remote VPN NCP Client</type>
    <type>Remote VPN Juniper Secure Connect</type>
    <type>None</type>
    <vpn-tunnel-mode-types>Route Based</vpn-tunnel-mode-types>
    <vpn-tunnel-mode-types>Policy Based</vpn-tunnel-mode-types>
    <profile>
      <name>String</name>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
      <link>String</link>
    </profile>
    <advpn-settings>
      <shortcut-conn-limit>String</shortcut-conn-limit>
      <idle-threshold>Integer</idle-threshold>
      <idle-time>Integer</idle-time>
      <uri>String</uri>
      <link>String</link>
    </advpn-settings>
    <profile-type>SHARED</profile-type>
    <profile-type>INLINE</profile-type>
    <description>String</description>
    <uri>String</uri>
    <link>String</link>
    <domain-name>String</domain-name>
  </ipsec-vpn>
```


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```
  <uri>String</uri>
  <totalSize>Integer</totalSize>
  <link>String</link>
</ipsec-vpns>
```

Get VPN

This request is used to get a VPN by its ID. The request returns the VPN information such as name, description, tunnel mode, VPN type, VPN profile, preshared key, tunnel settings, and route settings. It also includes two hrefs, one pointing to all the devices that are part of the VPN, and the other pointing to all the tunnels that are part of the VPN. The API also returns the edit version of the VPN which must be used when you modify this particular VPN to safe guard from the concurrent modification related issues.

URI	/api/juniper/sd/vpn-management/ipsec-vpns/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpn+xml;version=2;q=0.02 application/vnd.juniper.sd.vpn-management.ipsec-vpn+json;version=2;q=0.02
Access-Control	VPN.read

Sample JSON Output:

```
{
  "ipsec-vpn" : {
    "global" : "String",
    "edit-version" : "Integer",
    "version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "description" : "String",
    "profile" : {
      "name" : "String",
      "id" : "Integer",
      "domain-id" : "Integer",
      "uri" : "String",
      "link" : "String"
    },
```


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```
    "profile-type" : [ "SHARED", "INLINE" ],
    "advpn-settings" : {
      "shortcut-conn-limit" : "String",
      "idle-threshold" : "Integer",
      "idle-time" : "Integer",
      "uri" : "String",
      "link" : "String"
    },
    "vpn-tunnel-mode-types" : [ "Route Based", "Policy Based" ],
    "type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and
Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP
Client", "Remote VPN Juniper Secure Connect", "None" ],
    "tunnel-interface-type" : [ "Numbered", "Unnumbered" ],
    "tunnel-ip-range" : {
      "mask" : "Integer",
      "network-ip" : "String",
      "uri" : "String"
    },
    "tunnel-multi-point-size" : "Integer",
    "max-transmission-unit" : "Long",
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "routing-type" : [ "OSPF", "RIP", "Static Routing", "No Routing", "BGP", "Trafic Selector" ],
    "preshared-key-type" : [ "Auto-generate", "Manual", "None" ],
    "unique-key-per-tunnel" : "Boolean",
    "preshared-key" : "String",
    "ospf-area-id" : "Long",
    "max-retrans-time" : "Integer",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "allow-spoke-to-spoke-communication" : "Boolean",
    "multi-proxyid" : "Boolean",
    "uri" : "String",
    "link" : "String",
    "domain-name" : "String",
    "devices" : {
      "description" : "String",
      "link" : "String"
    },
    "tunnels" : {
      "description" : "String",
      "link" : "String"
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ipsec-vpn>
  <global>String</global>
  <edit-version>Integer</edit-version>
  <version>Integer</version>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <name>String</name>
  <description>String</description>
  <profile>
    <name>String</name>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
    <link>String</link>
```


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```
  </profile>
  <profile-type>SHARED</profile-type>
  <profile-type>INLINE</profile-type>
  <advpn-settings>
    <shortcut-conn-limit>String</shortcut-conn-limit>
    <idle-threshold>Integer</idle-threshold>
    <idle-time>Integer</idle-time>
    <uri>String</uri>
    <link>String</link>
  </advpn-settings>
  <vpn-tunnel-mode-types>Route Based</vpn-tunnel-mode-types>
  <vpn-tunnel-mode-types>Policy Based</vpn-tunnel-mode-types>
  <type>Hub and Spoke(Establishment All Peers)</type>
  <type>Full Mesh</type>
  <type>Site to Site</type>
  <type>Hub and Spoke(Establishment by Spokes)</type>
  <type>Hub and Spoke(ADVPN - Auto Discovery VPN)</type>
  <type>Remote VPN NCP Client</type>
  <type>Remote VPN Juniper Secure Connect</type>
  <type>None</type>
  <tunnel-interface-type>Numbered</tunnel-interface-type>
  <tunnel-interface-type>Unnumbered</tunnel-interface-type>
  <tunnel-ip-range>
    <mask>Integer</mask>
    <network-ip>String</network-ip>
    <uri>String</uri>
  </tunnel-ip-range>
  <tunnel-multi-point-size>Integer</tunnel-multi-point-size>
  <max-transmission-unit>Long</max-transmission-unit>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <routing-type>OSPF</routing-type>
  <routing-type>RIP</routing-type>
  <routing-type>Static Routing</routing-type>
  <routing-type>No Routing</routing-type>
  <routing-type>BGP</routing-type>
  <routing-type>Trafic Selector</routing-type>
  <preshared-key-type>Auto-generate</preshared-key-type>
  <preshared-key-type>Manual</preshared-key-type>
  <preshared-key-type>None</preshared-key-type>
  <unique-key-per-tunnel>Boolean</unique-key-per-tunnel>
  <preshared-key>String</preshared-key>
  <ospf-area-id>Long</ospf-area-id>
  <max-retrans-time>Integer</max-retrans-time>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <allow-spoke-to-spoke-communication>Boolean</allow-spoke-to-spoke-communication>
  <multi-proxyid>Boolean</multi-proxyid>
  <uri>String</uri>
  <link>String</link>
  <domain-name>String</domain-name>
  <devices>
    <description>String</description>
    <link>String</link>
  </devices>
  <tunnels>
    <description>String</description>
    <link>String</link>
  </tunnels>
</ipsec-vpn>
```


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Get VPNs by IDs and State

Retrieves a list of IPSec VPNs based on their IDs and optionally their operational state.

URI	/api/juniper/sd/vpn-management/ipsec-vpns/vpns-by-ids
HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.id-list+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.vpn-management.id-list+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns+xml;version=2;q=0.02 application/vnd.juniper.sd.vpn-management.ipsec-vpns+json;version=2;q=0.02
Access-Control	VPN.read

Sample JSON Input

```
{
  "vpn-list-by-id-and-state-request" : {
    "vpn-id-list" : {
      "ids" : [ "Integer" ]
    },
    "policy-state" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<vpn-list-by-id-and-state-request>
   <vpn-id-list>
      <ids>Integer</ids>
   </vpn-id-list>
   <policy-state>String</policy-state>
</vpn-list-by-id-and-state-request>
```

Sample JSON Output:

```
{
  "ipsec-vpns" : {
    "ipsec-vpn" : [ {
      "domain-id" : "Integer",
      "id" : "Integer",
      "global" : "String",
      "edit-version" : "Integer",
      "created-by-user-name" : "String",
      "name" : "String",
      "preshared-key" : "String",
```


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```
      "unique-key-per-tunnel" : "Boolean",
      "multi-proxyid" : "Boolean",
      "preshared-key-type" : [ "Auto-generate", "Manual", "None" ],
      "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
      "policy-state" : [ "DRAFT", "FINAL" ],
      "type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and
Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP
Client", "Remote VPN Juniper Secure Connect", "None" ],
      "vpn-tunnel-mode-types" : [ "Route Based", "Policy Based" ],
      "profile" : {
        "name" : "String",
        "id" : "Integer",
        "domain-id" : "Integer",
        "uri" : "String",
        "link" : "String"
      },
      "advpn-settings" : {
        "shortcut-conn-limit" : "String",
        "idle-threshold" : "Integer",
        "idle-time" : "Integer",
        "uri" : "String",
        "link" : "String"
      },
      "profile-type" : [ "SHARED", "INLINE" ],
      "description" : "String",
      "uri" : "String",
      "link" : "String",
      "domain-name" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer",
    "link" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ipsec-vpns>
  <ipsec-vpn>
    <domain-id>Integer</domain-id>
    <id>Integer</id>
    <global>String</global>
    <edit-version>Integer</edit-version>
    <created-by-user-name>String</created-by-user-name>
    <name>String</name>
    <preshared-key>String</preshared-key>
    <unique-key-per-tunnel>Boolean</unique-key-per-tunnel>
    <multi-proxyid>Boolean</multi-proxyid>
    <preshared-key-type>Auto-generate</preshared-key-type>
    <preshared-key-type>Manual</preshared-key-type>
    <preshared-key-type>None</preshared-key-type>
    <publish-state>Not Published</publish-state>
    <publish-state>Partially Published</publish-state>
    <publish-state>Published</publish-state>
    <publish-state>Re-Publish Required</publish-state>
    <publish-state>Deleted</publish-state>
    <policy-state>DRAFT</policy-state>
    <policy-state>FINAL</policy-state>
    <type>Hub and Spoke(Establishment All Peers)</type>
    <type>Full Mesh</type>
    <type>Site to Site</type>
    <type>Hub and Spoke(Establishment by Spokes)</type>
```


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```
    <type>Hub and Spoke(ADVPN - Auto Discovery VPN)</type>
    <type>Remote VPN NCP Client</type>
    <type>Remote VPN Juniper Secure Connect</type>
    <type>None</type>
    <vpn-tunnel-mode-types>Route Based</vpn-tunnel-mode-types>
    <vpn-tunnel-mode-types>Policy Based</vpn-tunnel-mode-types>
    <profile>
      <name>String</name>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
      <link>String</link>
    </profile>
    <advpn-settings>
      <shortcut-conn-limit>String</shortcut-conn-limit>
      <idle-threshold>Integer</idle-threshold>
      <idle-time>Integer</idle-time>
      <uri>String</uri>
      <link>String</link>
    </advpn-settings>
    <profile-type>SHARED</profile-type>
    <profile-type>INLINE</profile-type>
    <description>String</description>
    <uri>String</uri>
    <link>String</link>
    <domain-name>String</domain-name>
  </ipsec-vpn>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
  <link>String</link>
</ipsec-vpns>
```

Create VPN

Creates a new IPSec VPN configuration.

URI	/api/juniper/sd/vpn-management/ipsec-vpns/create-vpn
HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns.create-vpn+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.vpn-management.ipsec-vpns.create-vpn+json;version=2;charset=UTF-8
Accept-Type	None
Access-Control	VPN.create

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Sample JSON Input


```
{
  "create-vpn" : {
    "vpn-mo" : {
      "id" : "Integer",
      "name" : "String",
      "max-retrans-time" : "Integer",
      "ospf-area-id" : "Long",
      "export-static-routes" : "boolean",
      "export-rip-routes" : "boolean",
      "export-ospf-routes" : "boolean",
      "preshared-key" : "String",
      "unique-key-per-tunnel" : "boolean",
      "preshared-key-type" : [ "Auto-generate", "Manual", "None" ],
      "routing-type" : [ "OSPF", "RIP", "Static Routing", "No Routing", "BGP", "Trafic Selector" ],
      "tunnel-multi-point-size" : "Integer",
      "max-transmission-unit" : "Long",
      "tunnel-ip-range" : {
        "mask" : "Integer",
        "network-ip" : "String"
      },
      "tunnel-interface-type" : [ "Numbered", "Unnumbered" ],
      "type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and
Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP
Client", "Remote VPN Juniper Secure Connect", "None" ],
      "vpn-tunnel-mode-types" : [ "Route Based", "Policy Based" ],
      "profile" : {
        "name" : "String",
        "id" : "Integer"
      },
      "profile-type" : [ "SHARED", "INLINE" ],
      "description" : "String",
      "policy-state" : [ "DRAFT", "FINAL" ],
      "allow-spoke-to-spoke-communication" : "Boolean",
      "advpn-settings" : {
        "shortcut-conn-limit" : "long",
        "idle-threshold" : "int",
        "idle-time" : "int"
      },
      "multi-proxyid" : "Boolean"
    },
    "devices" : {
      "vpn-device-bean" : [ {
        "certificate" : "String",
        "trusted-ca-group" : "String",
        "is-hub" : "Boolean",
        "initiator" : "Boolean",
        "external-if-name" : "String",
        "ike-address" : "String",
        "proxy-id" : "String",
        "tunnel-zone" : "String",
        "protected-networks" : {
          "protected-network" : [ {
            "name" : "String",
            "id" : "Integer"
          } ],
          "totalSize" : "Integer"
        },
        "protected-network-zones" : {
          "protected-network-zon" : [ "String" ],
          "totalSize" : "Integer"
        },
        "protected-network-interfaces" : {
```


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```
        "protected-network-interface" : [ "String" ],
        "totalSize" : "Integer"
      },
      "export-default-routes" : "Boolean",
      "export-static-routes" : "Boolean",
      "export-ospf-routes" : "Boolean",
      "export-rip-routes" : "Boolean",
      "metric" : "Long",
      "extranet-device" : "Boolean",
      "tunnel-vr" : "String",
      "device-ip" : "String",
      "device-name" : "String",
      "device-moid" : "String",
      "devJunosVersion" : "String",
      "ike-group-id" : "String"
    } ]
  }
 }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<create-vpn>
  <vpn-mo>
    <id>Integer</id>
    <name>String</name>
    <max-retrans-time>Integer</max-retrans-time>
    <ospf-area-id>Long</ospf-area-id>
    <export-static-routes>boolean</export-static-routes>
    <export-rip-routes>boolean</export-rip-routes>
    <export-ospf-routes>boolean</export-ospf-routes>
    <preshared-key>String</preshared-key>
    <unique-key-per-tunnel>boolean</unique-key-per-tunnel>
    <preshared-key-type>Auto-generate</preshared-key-type>
    <preshared-key-type>Manual</preshared-key-type>
    <preshared-key-type>None</preshared-key-type>
    <routing-type>OSPF</routing-type>
    <routing-type>RIP</routing-type>
    <routing-type>Static Routing</routing-type>
    <routing-type>No Routing</routing-type>
    <routing-type>BGP</routing-type>
    <routing-type>Trafic Selector</routing-type>
    <tunnel-multi-point-size>Integer</tunnel-multi-point-size>
    <max-transmission-unit>Long</max-transmission-unit>
    <tunnel-ip-range>
      <mask>Integer</mask>
      <network-ip>String</network-ip>
    </tunnel-ip-range>
    <tunnel-interface-type>Numbered</tunnel-interface-type>
    <tunnel-interface-type>Unnumbered</tunnel-interface-type>
    <type>Hub and Spoke(Establishment All Peers)</type>
    <type>Full Mesh</type>
    <type>Site to Site</type>
    <type>Hub and Spoke(Establishment by Spokes)</type>
    <type>Hub and Spoke(ADVPN - Auto Discovery VPN)</type>
    <type>Remote VPN NCP Client</type>
    <type>Remote VPN Juniper Secure Connect</type>
    <type>None</type>
    <vpn-tunnel-mode-types>Route Based</vpn-tunnel-mode-types>
    <vpn-tunnel-mode-types>Policy Based</vpn-tunnel-mode-types>
    <profile>
      <name>String</name>
      <id>Integer</id>
    </profile>
    <profile-type>SHARED</profile-type>
```


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```
    <profile-type>INLINE</profile-type>
    <description>String</description>
    <policy-state>DRAFT</policy-state>
    <policy-state>FINAL</policy-state>
    <allow-spoke-to-spoke-communication>Boolean</allow-spoke-to-spoke-communication>
    <advpn-settings>
      <shortcut-conn-limit>long</shortcut-conn-limit>
      <idle-threshold>int</idle-threshold>
      <idle-time>int</idle-time>
    </advpn-settings>
    <multi-proxyid>Boolean</multi-proxyid>
  </vpn-mo>
  <devices>
    <vpn-device-bean>
      <certificate>String</certificate>
      <trusted-ca-group>String</trusted-ca-group>
      <is-hub>Boolean</is-hub>
      <initiator>Boolean</initiator>
      <external-if-name>String</external-if-name>
      <ike-address>String</ike-address>
      <proxy-id>String</proxy-id>
      <tunnel-zone>String</tunnel-zone>
      <protected-networks>
        <protected-network>
          <name>String</name>
          <id>Integer</id>
        </protected-network>
        <totalSize>Integer</totalSize>
      </protected-networks>
      <protected-network-zones>
        <protected-network-zon>String</protected-network-zon>
        <totalSize>Integer</totalSize>
      </protected-network-zones>
      <protected-network-interfaces>
        <protected-network-interface>String</protected-network-interface>
        <totalSize>Integer</totalSize>
      </protected-network-interfaces>
      <export-default-routes>Boolean</export-default-routes>
      <export-static-routes>Boolean</export-static-routes>
      <export-ospf-routes>Boolean</export-ospf-routes>
      <export-rip-routes>Boolean</export-rip-routes>
      <metric>Long</metric>
      <extranet-device>Boolean</extranet-device>
      <tunnel-vr>String</tunnel-vr>
      <device-ip>String</device-ip>
      <device-name>String</device-name>
      <device-moid>String</device-moid>
      <devJunosVersion>String</devJunosVersion>
      <ike-group-id>String</ike-group-id>
    </vpn-device-bean>
  </devices>
</create-vpn>
```

Sample JSON Output:

```
{
  "ipsec-vpn" : {
    "global" : "String",
    "edit-version" : "Integer",
    "version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
```


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```
    "name" : "String",
    "description" : "String",
    "profile" : {
      "name" : "String",
      "id" : "Integer",
      "domain-id" : "Integer",
      "uri" : "String",
      "link" : "String"
    },
    "profile-type" : [ "SHARED", "INLINE" ],
    "advpn-settings" : {
      "shortcut-conn-limit" : "String",
      "idle-threshold" : "Integer",
      "idle-time" : "Integer",
      "uri" : "String",
      "link" : "String"
    },
    "vpn-tunnel-mode-types" : [ "Route Based", "Policy Based" ],
    "type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and
Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP
Client", "Remote VPN Juniper Secure Connect", "None" ],
    "tunnel-interface-type" : [ "Numbered", "Unnumbered" ],
    "tunnel-ip-range" : {
      "mask" : "Integer",
      "network-ip" : "String",
      "uri" : "String"
    },
    "tunnel-multi-point-size" : "Integer",
    "max-transmission-unit" : "Long",
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "routing-type" : [ "OSPF", "RIP", "Static Routing", "No Routing", "BGP", "Trafic Selector" ],
    "preshared-key-type" : [ "Auto-generate", "Manual", "None" ],
    "unique-key-per-tunnel" : "Boolean",
    "preshared-key" : "String",
    "ospf-area-id" : "Long",
    "max-retrans-time" : "Integer",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "allow-spoke-to-spoke-communication" : "Boolean",
    "multi-proxyid" : "Boolean",
    "uri" : "String",
    "link" : "String",
    "domain-name" : "String",
    "devices" : {
      "description" : "String",
      "link" : "String"
    },
    "tunnels" : {
      "description" : "String",
      "link" : "String"
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ipsec-vpn>
  <global>String</global>
  <edit-version>Integer</edit-version>
  <version>Integer</version>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-id>Integer</domain-id>
```


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```
<id>Integer</id>
<name>String</name>
<description>String</description>
<profile>
  <name>String</name>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <uri>String</uri>
  <link>String</link>
</profile>
<profile-type>SHARED</profile-type>
<profile-type>INLINE</profile-type>
<advpn-settings>
  <shortcut-conn-limit>String</shortcut-conn-limit>
  <idle-threshold>Integer</idle-threshold>
  <idle-time>Integer</idle-time>
  <uri>String</uri>
  <link>String</link>
</advpn-settings>
<vpn-tunnel-mode-types>Route Based</vpn-tunnel-mode-types>
<vpn-tunnel-mode-types>Policy Based</vpn-tunnel-mode-types>
<type>Hub and Spoke(Establishment All Peers)</type>
<type>Full Mesh</type>
<type>Site to Site</type>
<type>Hub and Spoke(Establishment by Spokes)</type>
<type>Hub and Spoke(ADVPN - Auto Discovery VPN)</type>
<type>Remote VPN NCP Client</type>
<type>Remote VPN Juniper Secure Connect</type>
<type>None</type>
<tunnel-interface-type>Numbered</tunnel-interface-type>
<tunnel-interface-type>Unnumbered</tunnel-interface-type>
<tunnel-ip-range>
  <mask>Integer</mask>
  <network-ip>String</network-ip>
  <uri>String</uri>
</tunnel-ip-range>
<tunnel-multi-point-size>Integer</tunnel-multi-point-size>
<max-transmission-unit>Long</max-transmission-unit>
<publish-state>Not Published</publish-state>
<publish-state>Partially Published</publish-state>
<publish-state>Published</publish-state>
<publish-state>Re-Publish Required</publish-state>
<publish-state>Deleted</publish-state>
<routing-type>OSPF</routing-type>
<routing-type>RIP</routing-type>
<routing-type>Static Routing</routing-type>
<routing-type>No Routing</routing-type>
<routing-type>BGP</routing-type>
<routing-type>Trafic Selector</routing-type>
<preshared-key-type>Auto-generate</preshared-key-type>
<preshared-key-type>Manual</preshared-key-type>
<preshared-key-type>None</preshared-key-type>
<unique-key-per-tunnel>Boolean</unique-key-per-tunnel>
<preshared-key>String</preshared-key>
<ospf-area-id>Long</ospf-area-id>
<max-retrans-time>Integer</max-retrans-time>
<policy-state>DRAFT</policy-state>
<policy-state>FINAL</policy-state>
<allow-spoke-to-spoke-communication>Boolean</allow-spoke-to-spoke-communication>
<multi-proxyid>Boolean</multi-proxyid>
<uri>String</uri>
<link>String</link>
<domain-name>String</domain-name>
<devices>
```


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```
    <description>String</description>
    <link>String</link>
  </devices>
  <tunnels>
    <description>String</description>
    <link>String</link>
  </tunnels>
</ipsec-vpn>
```

Modify Tunnels Of VPN

This request is used to modify the tunnels in an existing IPsec VPN. The API requires the information such as VPN name, ID, and tunnel parameters such as IKE id, IKE type, VPN name in a device, local proxy ID, remote proxy ID, MTU, preshared key, tunnel address, tunnel interface name, profile details, traffic selectors, and ADVPN settings. You must provide the edit version to safe guard from concurrent modification related issues.

URI	/api/juniper/sd/vpn-management/ipsec-vpns/modify-tunnels?overwriteChanges=boolean
HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns.modify-tunnels+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.vpn-management.ipsec-vpns.modify-tunnels+json;version=2;charset=UTF-8
Accept-Type	None
Access-Control	VPN.update

Sample JSON Input

```
{
  "modify-tunnels" : {
    "vpn-basic" : {
      "id" : "Integer",
      "edit-version" : "Integer",
      "name" : "String"
    },
    "end-points" : {
      "vpn-end-point" : [ {
        "ike-id" : "String",
        "ike-type" : "String",
        "vpn-name-in-device" : "String",
        "device-name" : "String",
        "local-proxyid" : "String",
        "remote-proxyid" : "String",
        "max-transmission-unit" : "Long",
        "preshared-key" : "String",
```


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```
      "tunnel-address" : "String",
      "tunnel-if-name" : "String",
      "profile" : {
        "name" : "String",
        "id" : "Integer"
      },
      "traffic-selectors" : {
        "traffic-selector" : [ {
          "local-ip" : "String",
          "remote-ip" : "String",
          "name" : "String"
        } ]
      },
      "advpn-settings" : {
        "shortcut-conn-limit" : "Long",
        "idle-threshold" : "Integer",
        "idle-time" : "Integer"
      },
      "id" : "Integer"
    } ]
  }
 }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<modify-tunnels>
  <vpn-basic>
    <id>Integer</id>
    <edit-version>Integer</edit-version>
    <name>String</name>
  </vpn-basic>
  <end-points>
    <vpn-end-point>
      <ike-id>String</ike-id>
      <ike-type>String</ike-type>
      <vpn-name-in-device>String</vpn-name-in-device>
      <device-name>String</device-name>
      <local-proxyid>String</local-proxyid>
      <remote-proxyid>String</remote-proxyid>
      <max-transmission-unit>Long</max-transmission-unit>
      <preshared-key>String</preshared-key>
      <tunnel-address>String</tunnel-address>
      <tunnel-if-name>String</tunnel-if-name>
      <profile>
        <name>String</name>
        <id>Integer</id>
      </profile>
      <traffic-selectors>
        <traffic-selector>
          <local-ip>String</local-ip>
          <remote-ip>String</remote-ip>
          <name>String</name>
        </traffic-selector>
      </traffic-selectors>
      <advpn-settings>
        <shortcut-conn-limit>Long</shortcut-conn-limit>
        <idle-threshold>Integer</idle-threshold>
        <idle-time>Integer</idle-time>
      </advpn-settings>
      <id>Integer</id>
    </vpn-end-point>
  </end-points>
</modify-tunnels>
```


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Get All Devices Of VPN

This request is used to get all devices participating in a VPN and details related to that device such as the device name, whether the device is a hub or spoke, protected networks, external interface, proxy-id, and so on. This API supports paging and filtering. It supports global search for filtering by device name and device IP.

URI	/api/juniper/sd/vpn-management/ipsec-vpns/{id}/devices
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns.devices+xml;version=2;q=0.02 application/vnd.juniper.sd.vpn-management.ipsec-vpns.devices+json;version=2;q=0.02
Access-Control	VPN.read

Sample JSON Output:


```
{
  "devices" : {
    "device" : [ {
      "certificate" : "String",
      "trusted-ca-group" : "String",
      "is-hub" : "Boolean",
      "ike-address" : "String",
      "bgp-as-number" : "Long",
      "ike-group-id" : "String",
      "initiator" : "Boolean",
      "external-if-name" : "String",
      "device-authentication" : {
        "name" : "String",
        "id" : "Integer",
        "uri" : "String",
        "link" : "String"
      },
      "ssl-vpn-profile" : "String",
      "nat-traffic" : "Boolean",
      "interface" : "String",
      "split-tunnel" : "Boolean",
      "external-if-display-name" : "String",
      "proxy-id" : "String",
      "protected-networks" : {
        "protected-network" : [ {
          "name" : "String",
          "id" : "Integer",
```


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```
    "domain-id" : "Integer",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"protected-network-zones" : {
  "protected-network-zone" : [ "String" ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"tunnel-settings" : {
  "tunnels" : [ {
    "id" : "int",
    "device-name" : "String",
    "tunnel-if-name" : "String",
    "ike-id" : "String",
    "ike-id-type" : "String",
    "vpn-name-in-device" : "String",
    "preshared-key" : "String",
    "proxy-id" : "String",
    "remote-proxy-id" : "String",
    "max-transmission-unit" : "Long",
    "device-ip" : "String",
    "external-if-name" : "String",
    "tunnel-zone" : "String",
    "tunnel-address" : "String",
    "peer-device" : {
      "device-name" : "String",
      "device-ip" : "String",
      "uri" : "String",
      "link" : "String"
    },
    "is-local-address-required" : "Boolean",
    "gw-address" : "String",
    "bgp-as-number" : "Long",
    "certificate" : "String",
    "trusted-ca-group" : "String",
    "metric" : "Long",
    "tunnel-vr" : "String",
    "global" : "String",
    "edit-version" : "Integer",
    "version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-id" : "Integer",
    "moid" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"protected-network-interfaces" : {
  "protected-network-interface" : [ "String" ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"tunnel-zone" : "String",
"export-default-routes" : "Boolean",
"export-static-routes" : "Boolean",
"export-ospf-routes" : "Boolean",
"export-rip-routes" : "Boolean",
"metric" : "Long",
"extranet-device" : "Boolean",
```


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```
      "tunnel-vr" : "String",
      "device-moid" : "String",
      "device-name" : "String",
      "device-ip" : "String",
      "devJunosVersion" : "String",
      "global" : "String",
      "edit-version" : "Integer",
      "version" : "Integer",
      "error-level" : "Integer",
      "error-message" : "[]",
      "created-by-user-name" : "String",
      "last-modified-by-user-name" : "String",
      "domain-id" : "Integer",
      "id" : "Integer",
      "uri" : "String",
      "device-id" : "Integer",
      "connection-mode" : "String",
      "ssl-vpn" : "Boolean",
      "windows-logon" : "Boolean",
      "remote-user-domain-name" : "String",
      "remote-user-mode" : "String",
      "disconnect-at-logoff" : "Boolean",
      "flush-credential" : "Boolean",
      "lead-time-duration" : "Integer",
      "eap-authentication" : "Boolean",
      "auto-dialog-open" : "Boolean",
      "biometric-authentication" : "Boolean",
      "eap-tls" : "Boolean",
      "default-profile" : "Boolean",
      "certificates" : "Boolean",
      "expiry-warning" : "Boolean",
      "warn-before-expiry-interval" : "Integer",
      "pin-request-per-connection" : "Boolean",
      "remote_user_dead_peer_detection" : "Boolean",
      "remote-user-dead-peer-detection-interval" : "Integer",
      "remote-user-dead-peer-detection-threshold" : "Integer",
      "source-address" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<devices>
  <device>
    <certificate>String</certificate>
    <trusted-ca-group>String</trusted-ca-group>
    <is-hub>Boolean</is-hub>
    <ike-address>String</ike-address>
    <bgp-as-number>Long</bgp-as-number>
    <ike-group-id>String</ike-group-id>
    <initiator>Boolean</initiator>
    <external-if-name>String</external-if-name>
    <device-authentication>
      <name>String</name>
      <id>Integer</id>
      <uri>String</uri>
      <link>String</link>
    </device-authentication>
    <ssl-vpn-profile>String</ssl-vpn-profile>
    <nat-traffic>Boolean</nat-traffic>
```


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```
<interface>String</interface>
<split-tunnel>Boolean</split-tunnel>
<external-if-display-name>String</external-if-display-name>
<proxy-id>String</proxy-id>
<protected-networks>
  <protected-network>
    <name>String</name>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
    <link>String</link>
  </protected-network>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</protected-networks>
<protected-network-zones>
  <protected-network-zone>String</protected-network-zone>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</protected-network-zones>
<tunnel-settings>
  <tunnels>
    <id>int</id>
    <device-name>String</device-name>
    <tunnel-if-name>String</tunnel-if-name>
    <ike-id>String</ike-id>
    <ike-id-type>String</ike-id-type>
    <vpn-name-in-device>String</vpn-name-in-device>
    <preshared-key>String</preshared-key>
    <proxy-id>String</proxy-id>
    <remote-proxy-id>String</remote-proxy-id>
    <max-transmission-unit>Long</max-transmission-unit>
    <device-ip>String</device-ip>
    <external-if-name>String</external-if-name>
    <tunnel-zone>String</tunnel-zone>
    <tunnel-address>String</tunnel-address>
    <peer-device>
      <device-name>String</device-name>
      <device-ip>String</device-ip>
      <uri>String</uri>
      <link>String</link>
    </peer-device>
    <is-local-address-required>Boolean</is-local-address-required>
    <gw-address>String</gw-address>
    <bgp-as-number>Long</bgp-as-number>
    <certificate>String</certificate>
    <trusted-ca-group>String</trusted-ca-group>
    <metric>Long</metric>
    <tunnel-vr>String</tunnel-vr>
    <global>String</global>
    <edit-version>Integer</edit-version>
    <version>Integer</version>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-id>Integer</domain-id>
    <moid>String</moid>
  </tunnels>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</tunnel-settings>
<protected-network-interfaces>
  <protected-network-interface>String</protected-network-interface>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
```


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```
    </protected-network-interfaces>
    <tunnel-zone>String</tunnel-zone>
    <export-default-routes>Boolean</export-default-routes>
    <export-static-routes>Boolean</export-static-routes>
    <export-ospf-routes>Boolean</export-ospf-routes>
    <export-rip-routes>Boolean</export-rip-routes>
    <metric>Long</metric>
    <extranet-device>Boolean</extranet-device>
    <tunnel-vr>String</tunnel-vr>
    <device-moid>String</device-moid>
    <device-name>String</device-name>
    <device-ip>String</device-ip>
    <devJunosVersion>String</devJunosVersion>
    <global>String</global>
    <edit-version>Integer</edit-version>
    <version>Integer</version>
    <error-level>Integer</error-level>
    <error-message>[]</error-message>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-id>Integer</domain-id>
    <id>Integer</id>
    <uri>String</uri>
    <device-id>Integer</device-id>
    <connection-mode>String</connection-mode>
    <ssl-vpn>Boolean</ssl-vpn>
    <windows-logon>Boolean</windows-logon>
    <remote-user-domain-name>String</remote-user-domain-name>
    <remote-user-mode>String</remote-user-mode>
    <disconnect-at-logoff>Boolean</disconnect-at-logoff>
    <flush-credential>Boolean</flush-credential>
    <lead-time-duration>Integer</lead-time-duration>
    <eap-authentication>Boolean</eap-authentication>
    <auto-dialog-open>Boolean</auto-dialog-open>
    <biometric-authentication>Boolean</biometric-authentication>
    <eap-tls>Boolean</eap-tls>
    <default-profile>Boolean</default-profile>
    <certificates>Boolean</certificates>
    <expiry-warning>Boolean</expiry-warning>
    <warn-before-expiry-interval>Integer</warn-before-expiry-interval>
    <pin-request-per-connection>Boolean</pin-request-per-connection>
    <remote_user_dead_peer_detection>Boolean</remote_user_dead_peer_detection>
    <remote-user-dead-peer-detection-interval>Integer</remote-user-dead-peer-detection-interval>
    <remote-user-dead-peer-detection-threshold>Integer</remote-user-dead-peer-detection-threshold>
    <source-address>String</source-address>
  </device>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</devices>
```


Get All VPN IDs

Retrieves a list of all IPSec VPN IDs.

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URI	/api/juniper/sd/vpn-management/ipsec-vpns/select-all
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	VPN.read

Sample JSON Output:

```
{
  "select-ids" : {
    "select-id" : [ {
      "id" : "Integer",
      "domainId" : "Integer"
    } ],
    "total" : "Integer"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<select-ids>
   <select-id>
      <id>Integer</id>
      <domainId>Integer</domainId>
   </select-id>
   <total>Integer</total>
</select-ids>
```

Modify IPsec VPN Global Settings

Updates the global IPsec VPN settings.

URI	/api/juniper/sd/vpn-management/ipsec-vpns/global-settings/{id}
HTTP method	PUT

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Content-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns.global-settings+xml;version=2; application/vnd.juniper.sd.vpn-management.ipsec-vpns.global-settings+json;version=2;
Accept-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns.global-settings+xml;version=2;q=0.02 application/vnd.juniper.sd.vpn-management.ipsec-vpns.global-settings+json;version=2;q=0.02
Access-Control	VPN.update

Sample JSON Input

```
{
  "global-setting" : {
    "id" : "Integer",
    "device-id" : "Integer",
    "device-name" : "String",
    "default-profile-name" : "String",
    "ssl-vpn-tunnel-tracking" : "Boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<global-setting>
   <id>Integer</id>
   <device-id>Integer</device-id>
   <device-name>String</device-name>
   <default-profile-name>String</default-profile-name>
   <ssl-vpn-tunnel-tracking>Boolean</ssl-vpn-tunnel-tracking>
</global-setting>
```

Sample JSON Output:

```
{
  "global-setting" : {
    "domain-id" : "Integer",
    "id" : "Integer",
    "device-id" : "Integer",
    "device-name" : "String",
    "default-profile-name" : "String",
    "ssl-vpn-tunnel-tracking" : "Boolean"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<global-setting>
   <domain-id>Integer</domain-id>
   <id>Integer</id>
   <device-id>Integer</device-id>
   <device-name>String</device-name>
   <default-profile-name>String</default-profile-name>
   <ssl-vpn-tunnel-tracking>Boolean</ssl-vpn-tunnel-tracking>
</global-setting>
```


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Get VPN by Name

Retrieves a specific IPSec VPN configuration by its unique name.

URI	/api/juniper/sd/vpn-management/ipsec-vpns/vpn-name/{name}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpn+xml;version=2;q=0.02 application/vnd.juniper.sd.vpn-management.ipsec-vpn+json;version=2;q=0.02
Access-Control	VPN.read

Sample JSON Output:


```
{
  "ipsec-vpn" : {
    "global" : "String",
    "edit-version" : "Integer",
    "version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "description" : "String",
    "profile" : {
      "name" : "String",
      "id" : "Integer",
      "domain-id" : "Integer",
      "uri" : "String",
      "link" : "String"
    },
    "profile-type" : [ "SHARED", "INLINE" ],
    "advpn-settings" : {
      "shortcut-conn-limit" : "String",
      "idle-threshold" : "Integer",
      "idle-time" : "Integer",
      "uri" : "String",
      "link" : "String"
    },
    "vpn-tunnel-mode-types" : [ "Route Based", "Policy Based" ],
    "type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and
Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP
Client", "Remote VPN Juniper Secure Connect", "None" ],
    "tunnel-interface-type" : [ "Numbered", "Unnumbered" ],
    "tunnel-ip-range" : {
```


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```
      "mask" : "Integer",
      "network-ip" : "String",
      "uri" : "String"
    },
    "tunnel-multi-point-size" : "Integer",
    "max-transmission-unit" : "Long",
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "routing-type" : [ "OSPF", "RIP", "Static Routing", "No Routing", "BGP", "Trafic Selector" ],
    "preshared-key-type" : [ "Auto-generate", "Manual", "None" ],
    "unique-key-per-tunnel" : "Boolean",
    "preshared-key" : "String",
    "ospf-area-id" : "Long",
    "max-retrans-time" : "Integer",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "allow-spoke-to-spoke-communication" : "Boolean",
    "multi-proxyid" : "Boolean",
    "uri" : "String",
    "link" : "String",
    "domain-name" : "String",
    "devices" : {
      "description" : "String",
      "link" : "String"
    },
    "tunnels" : {
      "description" : "String",
      "link" : "String"
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ipsec-vpn>
  <global>String</global>
  <edit-version>Integer</edit-version>
  <version>Integer</version>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <name>String</name>
  <description>String</description>
  <profile>
    <name>String</name>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
    <link>String</link>
  </profile>
  <profile-type>SHARED</profile-type>
  <profile-type>INLINE</profile-type>
  <advpn-settings>
    <shortcut-conn-limit>String</shortcut-conn-limit>
    <idle-threshold>Integer</idle-threshold>
    <idle-time>Integer</idle-time>
    <uri>String</uri>
    <link>String</link>
  </advpn-settings>
  <vpn-tunnel-mode-types>Route Based</vpn-tunnel-mode-types>
  <vpn-tunnel-mode-types>Policy Based</vpn-tunnel-mode-types>
  <type>Hub and Spoke(Establishment All Peers)</type>
  <type>Full Mesh</type>
```


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```
  <type>Site to Site</type>
  <type>Hub and Spoke(Establishment by Spokes)</type>
  <type>Hub and Spoke(ADVPN - Auto Discovery VPN)</type>
  <type>Remote VPN NCP Client</type>
  <type>Remote VPN Juniper Secure Connect</type>
  <type>None</type>
  <tunnel-interface-type>Numbered</tunnel-interface-type>
  <tunnel-interface-type>Unnumbered</tunnel-interface-type>
  <tunnel-ip-range>
    <mask>Integer</mask>
    <network-ip>String</network-ip>
    <uri>String</uri>
  </tunnel-ip-range>
  <tunnel-multi-point-size>Integer</tunnel-multi-point-size>
  <max-transmission-unit>Long</max-transmission-unit>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <routing-type>OSPF</routing-type>
  <routing-type>RIP</routing-type>
  <routing-type>Static Routing</routing-type>
  <routing-type>No Routing</routing-type>
  <routing-type>BGP</routing-type>
  <routing-type>Trafic Selector</routing-type>
  <preshared-key-type>Auto-generate</preshared-key-type>
  <preshared-key-type>Manual</preshared-key-type>
  <preshared-key-type>None</preshared-key-type>
  <unique-key-per-tunnel>Boolean</unique-key-per-tunnel>
  <preshared-key>String</preshared-key>
  <ospf-area-id>Long</ospf-area-id>
  <max-retrans-time>Integer</max-retrans-time>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <allow-spoke-to-spoke-communication>Boolean</allow-spoke-to-spoke-communication>
  <multi-proxyid>Boolean</multi-proxyid>
  <uri>String</uri>
  <link>String</link>
  <domain-name>String</domain-name>
  <devices>
    <description>String</description>
    <link>String</link>
  </devices>
  <tunnels>
    <description>String</description>
    <link>String</link>
  </tunnels>
</ipsec-vpn>
```


Create IPsec VPN

Creates a new IPsec VPN tunnel or configuration.

URI	/api/juniper/sd/vpn-management/ipsec-vpns

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HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.vpn-management.ipsec-vpns+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpn+xml;version=2;q=0.02 application/vnd.juniper.sd.vpn-management.ipsec-vpn+json;version=2;q=0.02
Access-Control	VPN.create

Sample JSON Input


```
{
  "ipsec-vpn" : {
    "devices" : {
      "vpn-device-bean" : [ {
        "certificate" : "String",
        "trusted-ca-group" : "String",
        "is-hub" : "Boolean",
        "initiator" : "Boolean",
        "external-if-name" : "String",
        "device-authentication" : {
          "name" : "String",
          "id" : "Integer"
        },
        "ssl-vpn-profile" : "String",
        "nat-traffic" : "Boolean",
        "interface" : "String",
        "split-tunnel" : "Boolean",
        "ike-address" : "String",
        "bgp-as-number" : "Long",
        "proxy-id" : "String",
        "tunnel-zone" : "String",
        "protected-networks" : {
          "protected-network" : [ {
            "name" : "String",
            "id" : "Integer"
          } ],
          "totalSize" : "Integer"
        },
        "protected-network-zones" : {
          "protected-network-zon" : [ "String" ],
          "totalSize" : "Integer"
        },
        "protected-network-interfaces" : {
          "protected-network-interface" : [ "String" ],
          "totalSize" : "Integer"
        },
        "export-default-routes" : "Boolean",
        "export-static-routes" : "Boolean",
        "export-ospf-routes" : "Boolean",
        "export-rip-routes" : "Boolean",
        "metric" : "Long",
        "extranet-device" : "Boolean",
```


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```
      "tunnel-vr" : "String",
      "device-ip" : "String",
      "device-name" : "String",
      "devJunosVersion" : "String",
      "device-moid" : "String",
      "ike-group-id" : "String",
      "gateway-behind-nat" : "Boolean",
      "ike-id" : "String",
      "ike-type" : "String",
      "preshared-key" : "String",
      "connection-mode" : "String",
      "ssl-vpn" : "Boolean",
      "windows-logon" : "Boolean",
      "remote-user-domain-name" : "String",
      "remote-user-mode" : "String",
      "disconnect-at-logoff" : "Boolean",
      "flush-credential" : "Boolean",
      "lead-time-duration" : "int",
      "eap-authentication" : "Boolean",
      "auto-dialog-open" : "Boolean",
      "biometric-authentication" : "Boolean",
      "eap-tls" : "Boolean",
      "default-profile" : "Boolean",
      "source-address" : "String",
      "certificates" : "Boolean",
      "expiry-warning" : "Boolean",
      "warn-before-expiry-interval" : "Integer",
      "pin-request-per-connection" : "Boolean",
      "remote_user_dead_peer_detection" : "Boolean",
      "remote-user-dead-peer-detection-interval" : "Integer",
      "remote-user-dead-peer-detection-threshold" : "Integer"
    } ]
  },
  "id" : "Integer",
  "name" : "String",
  "max-retrans-time" : "Integer",
  "ospf-area-id" : "Long",
  "export-static-routes" : "boolean",
  "export-rip-routes" : "boolean",
  "export-ospf-routes" : "boolean",
  "preshared-key" : "String",
  "unique-key-per-tunnel" : "boolean",
  "preshared-key-type" : [ "Auto-generate", "Manual", "None" ],
  "routing-type" : [ "OSPF", "RIP", "Static Routing", "No Routing", "BGP", "Trafic Selector" ],
  "tunnel-multi-point-size" : "Integer",
  "max-transmission-unit" : "Long",
  "tunnel-ip-range" : {
    "mask" : "Integer",
    "network-ip" : "String"
  },
  "tunnel-interface-type" : [ "Numbered", "Unnumbered" ],
  "type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and
Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP
Client", "Remote VPN Juniper Secure Connect", "None" ],
  "vpn-tunnel-mode-types" : [ "Route Based", "Policy Based" ],
  "profile" : {
    "name" : "String",
    "id" : "Integer"
  },
  "profile-type" : [ "SHARED", "INLINE" ],
  "description" : "String",
  "policy-state" : [ "DRAFT", "FINAL" ],
  "allow-spoke-to-spoke-communication" : "Boolean",
  "advpn-settings" : {
```


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```
    "shortcut-conn-limit" : "long",
    "idle-threshold" : "int",
    "idle-time" : "int"
   },
   "multi-proxyid" : "Boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<ipsec-vpn>
  <devices>
    <vpn-device-bean>
      <certificate>String</certificate>
      <trusted-ca-group>String</trusted-ca-group>
      <is-hub>Boolean</is-hub>
      <initiator>Boolean</initiator>
      <external-if-name>String</external-if-name>
      <device-authentication>
        <name>String</name>
        <id>Integer</id>
      </device-authentication>
      <ssl-vpn-profile>String</ssl-vpn-profile>
      <nat-traffic>Boolean</nat-traffic>
      <interface>String</interface>
      <split-tunnel>Boolean</split-tunnel>
      <ike-address>String</ike-address>
      <bgp-as-number>Long</bgp-as-number>
      <proxy-id>String</proxy-id>
      <tunnel-zone>String</tunnel-zone>
      <protected-networks>
        <protected-network>
          <name>String</name>
          <id>Integer</id>
        </protected-network>
        <totalSize>Integer</totalSize>
      </protected-networks>
      <protected-network-zones>
        <protected-network-zon>String</protected-network-zon>
        <totalSize>Integer</totalSize>
      </protected-network-zones>
      <protected-network-interfaces>
        <protected-network-interface>String</protected-network-interface>
        <totalSize>Integer</totalSize>
      </protected-network-interfaces>
      <export-default-routes>Boolean</export-default-routes>
      <export-static-routes>Boolean</export-static-routes>
      <export-ospf-routes>Boolean</export-ospf-routes>
      <export-rip-routes>Boolean</export-rip-routes>
      <metric>Long</metric>
      <extranet-device>Boolean</extranet-device>
      <tunnel-vr>String</tunnel-vr>
      <device-ip>String</device-ip>
      <device-name>String</device-name>
      <devJunosVersion>String</devJunosVersion>
      <device-moid>String</device-moid>
      <ike-group-id>String</ike-group-id>
      <gateway-behind-nat>Boolean</gateway-behind-nat>
      <ike-id>String</ike-id>
      <ike-type>String</ike-type>
      <preshared-key>String</preshared-key>
      <connection-mode>String</connection-mode>
```


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```
      <ssl-vpn>Boolean</ssl-vpn>
      <windows-logon>Boolean</windows-logon>
      <remote-user-domain-name>String</remote-user-domain-name>
      <remote-user-mode>String</remote-user-mode>
      <disconnect-at-logoff>Boolean</disconnect-at-logoff>
      <flush-credential>Boolean</flush-credential>
      <lead-time-duration>int</lead-time-duration>
      <eap-authentication>Boolean</eap-authentication>
      <auto-dialog-open>Boolean</auto-dialog-open>
      <biometric-authentication>Boolean</biometric-authentication>
      <eap-tls>Boolean</eap-tls>
      <default-profile>Boolean</default-profile>
      <source-address>String</source-address>
      <certificates>Boolean</certificates>
      <expiry-warning>Boolean</expiry-warning>
      <warn-before-expiry-interval>Integer</warn-before-expiry-interval>
      <pin-request-per-connection>Boolean</pin-request-per-connection>
      <remote_user_dead_peer_detection>Boolean</remote_user_dead_peer_detection>
      <remote-user-dead-peer-detection-interval>Integer</remote-user-dead-peer-detection-interval>
      <remote-user-dead-peer-detection-threshold>Integer</remote-user-dead-peer-detection-threshold>
    </vpn-device-bean>
</devices>
<id>Integer</id>
<name>String</name>
<max-retrans-time>Integer</max-retrans-time>
<ospf-area-id>Long</ospf-area-id>
<export-static-routes>boolean</export-static-routes>
<export-rip-routes>boolean</export-rip-routes>
<export-ospf-routes>boolean</export-ospf-routes>
<preshared-key>String</preshared-key>
<unique-key-per-tunnel>boolean</unique-key-per-tunnel>
<preshared-key-type>Auto-generate</preshared-key-type>
<preshared-key-type>Manual</preshared-key-type>
<preshared-key-type>None</preshared-key-type>
<routing-type>OSPF</routing-type>
<routing-type>RIP</routing-type>
<routing-type>Static Routing</routing-type>
<routing-type>No Routing</routing-type>
<routing-type>BGP</routing-type>
<routing-type>Trafic Selector</routing-type>
<tunnel-multi-point-size>Integer</tunnel-multi-point-size>
<max-transmission-unit>Long</max-transmission-unit>
<tunnel-ip-range>
  <mask>Integer</mask>
  <network-ip>String</network-ip>
</tunnel-ip-range>
<tunnel-interface-type>Numbered</tunnel-interface-type>
<tunnel-interface-type>Unnumbered</tunnel-interface-type>
<type>Hub and Spoke(Establishment All Peers)</type>
<type>Full Mesh</type>
<type>Site to Site</type>
<type>Hub and Spoke(Establishment by Spokes)</type>
<type>Hub and Spoke(ADVPN - Auto Discovery VPN)</type>
<type>Remote VPN NCP Client</type>
<type>Remote VPN Juniper Secure Connect</type>
<type>None</type>
<vpn-tunnel-mode-types>Route Based</vpn-tunnel-mode-types>
<vpn-tunnel-mode-types>Policy Based</vpn-tunnel-mode-types>
<profile>
  <name>String</name>
  <id>Integer</id>
</profile>
```


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```
  <profile-type>SHARED</profile-type>
  <profile-type>INLINE</profile-type>
  <description>String</description>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <allow-spoke-to-spoke-communication>Boolean</allow-spoke-to-spoke-communication>
  <advpn-settings>
    <shortcut-conn-limit>long</shortcut-conn-limit>
    <idle-threshold>int</idle-threshold>
    <idle-time>int</idle-time>
  </advpn-settings>
  <multi-proxyid>Boolean</multi-proxyid>
</ipsec-vpn>
```

Sample JSON Output:


```
{
  "ipsec-vpn" : {
    "global" : "String",
    "edit-version" : "Integer",
    "version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "description" : "String",
    "profile" : {
      "name" : "String",
      "id" : "Integer",
      "domain-id" : "Integer",
      "uri" : "String",
      "link" : "String"
    },
    "profile-type" : [ "SHARED", "INLINE" ],
    "advpn-settings" : {
      "shortcut-conn-limit" : "String",
      "idle-threshold" : "Integer",
      "idle-time" : "Integer",
      "uri" : "String",
      "link" : "String"
    },
    "vpn-tunnel-mode-types" : [ "Route Based", "Policy Based" ],
    "type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and
Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP
Client", "Remote VPN Juniper Secure Connect", "None" ],
    "tunnel-interface-type" : [ "Numbered", "Unnumbered" ],
    "tunnel-ip-range" : {
      "mask" : "Integer",
      "network-ip" : "String",
      "uri" : "String"
    },
    "tunnel-multi-point-size" : "Integer",
    "max-transmission-unit" : "Long",
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "routing-type" : [ "OSPF", "RIP", "Static Routing", "No Routing", "BGP", "Trafic Selector" ],
    "preshared-key-type" : [ "Auto-generate", "Manual", "None" ],
    "unique-key-per-tunnel" : "Boolean",
    "preshared-key" : "String",
    "ospf-area-id" : "Long",
    "max-retrans-time" : "Integer",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "allow-spoke-to-spoke-communication" : "Boolean",
    "multi-proxyid" : "Boolean",
```


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```
    "uri" : "String",
    "link" : "String",
    "domain-name" : "String",
    "devices" : {
      "description" : "String",
      "link" : "String"
    },
    "tunnels" : {
      "description" : "String",
      "link" : "String"
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ipsec-vpn>
  <global>String</global>
  <edit-version>Integer</edit-version>
  <version>Integer</version>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <name>String</name>
  <description>String</description>
  <profile>
    <name>String</name>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
    <link>String</link>
  </profile>
  <profile-type>SHARED</profile-type>
  <profile-type>INLINE</profile-type>
  <advpn-settings>
    <shortcut-conn-limit>String</shortcut-conn-limit>
    <idle-threshold>Integer</idle-threshold>
    <idle-time>Integer</idle-time>
    <uri>String</uri>
    <link>String</link>
  </advpn-settings>
  <vpn-tunnel-mode-types>Route Based</vpn-tunnel-mode-types>
  <vpn-tunnel-mode-types>Policy Based</vpn-tunnel-mode-types>
  <type>Hub and Spoke(Establishment All Peers)</type>
  <type>Full Mesh</type>
  <type>Site to Site</type>
  <type>Hub and Spoke(Establishment by Spokes)</type>
  <type>Hub and Spoke(ADVPN - Auto Discovery VPN)</type>
  <type>Remote VPN NCP Client</type>
  <type>Remote VPN Juniper Secure Connect</type>
  <type>None</type>
  <tunnel-interface-type>Numbered</tunnel-interface-type>
  <tunnel-interface-type>Unnumbered</tunnel-interface-type>
  <tunnel-ip-range>
    <mask>Integer</mask>
    <network-ip>String</network-ip>
    <uri>String</uri>
  </tunnel-ip-range>
  <tunnel-multi-point-size>Integer</tunnel-multi-point-size>
  <max-transmission-unit>Long</max-transmission-unit>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
```


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```
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <routing-type>OSPF</routing-type>
  <routing-type>RIP</routing-type>
  <routing-type>Static Routing</routing-type>
  <routing-type>No Routing</routing-type>
  <routing-type>BGP</routing-type>
  <routing-type>Trafic Selector</routing-type>
  <preshared-key-type>Auto-generate</preshared-key-type>
  <preshared-key-type>Manual</preshared-key-type>
  <preshared-key-type>None</preshared-key-type>
  <unique-key-per-tunnel>Boolean</unique-key-per-tunnel>
  <preshared-key>String</preshared-key>
  <ospf-area-id>Long</ospf-area-id>
  <max-retrans-time>Integer</max-retrans-time>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <allow-spoke-to-spoke-communication>Boolean</allow-spoke-to-spoke-communication>
  <multi-proxyid>Boolean</multi-proxyid>
  <uri>String</uri>
  <link>String</link>
  <domain-name>String</domain-name>
  <devices>
    <description>String</description>
    <link>String</link>
  </devices>
  <tunnels>
    <description>String</description>
    <link>String</link>
  </tunnels>
</ipsec-vpn>
```


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PART 2

Security Director Objects

CHAPTER 5

Access Profile Management RESTful Web Services

The following opertions can be performed using Secuirty Director Access Profile Management RESTful Web Services

Create Access Profile

This request is used to create an access profile.

URI	/api/juniper/sd/access-profile-management/access-profiles
HTTP method	POST
Content-Type	application/vnd.sd.access-profile-management.access-profile+xml;version=1;charset=UTF-8 application/vnd.sd.access-profile-management.access-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.sd.access-profile-management.access-profile+xml;version=1;q=0.01 application/vnd.sd.access-profile-management.access-profile+json;version=1;q=0.01
Access-Control	createAccessProfile

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Sample JSON Input


```
{
  "access-profile" : {
    "edit-version" : "Integer",
    "version" : "Integer",
    "id" : "Integer",
    "ldap-servers" : {
      "ldap-server" : [ {
        "port" : "Integer",
        "routing-instance" : "String",
        "time-out" : "Integer",
        "address" : "String",
        "src-address" : "String",
        "retry" : "Integer"
      } ]
    },
    "ldap-options" : {
      "assemble" : "Boolean",
      "common-name" : "String",
      "admin-password" : "String",
      "search-filter" : "String",
      "base-dn" : "String",
      "revert-interval" : "Long",
      "admin-dn" : "String",
      "admin-search" : "Boolean"
    },
    "radius-servers" : {
      "radius-server" : [ {
        "port" : "Integer",
        "routing-instance" : "String",
        "time-out" : "Integer",
        "address" : "String",
        "src-address" : "String",
        "retry" : "Integer",
        "secret" : "String"
      } ]
    },
    "local-xauths" : {
      "local-xauth" : [ {
        "userName" : "String",
        "password" : "String",
        "xauthIPAddress" : "String",
        "group" : "String"
      } ]
    },
    "description" : "String",
    "delete-from-device" : "Boolean",
    "authentication-order1" : [ "LDAP", "Local", "NONE", "PASSWORD", "RADIUS", "SECURID" ],
    "authentication-order2" : [ "LDAP", "Local", "NONE", "PASSWORD", "RADIUS", "SECURID" ],
    "name" : "String",
    "job-id" : "String",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "name" : "String",
        "ip" : "String",
        "device-type" : "String"
      } ]
    },
    "address-assignment" : {
      "id" : "Integer",
      "name" : "String",
      "moid" : "String"
```


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```
  }
 }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<access-profile>
  <edit-version>Integer</edit-version>
  <version>Integer</version>
  <id>Integer</id>
  <ldap-servers>
    <ldap-server>
      <port>Integer</port>
      <routing-instance>String</routing-instance>
      <time-out>Integer</time-out>
      <address>String</address>
      <src-address>String</src-address>
      <retry>Integer</retry>
    </ldap-server>
  </ldap-servers>
  <ldap-options>
    <assemble>Boolean</assemble>
    <common-name>String</common-name>
    <admin-password>String</admin-password>
    <search-filter>String</search-filter>
    <base-dn>String</base-dn>
    <revert-interval>Long</revert-interval>
    <admin-dn>String</admin-dn>
    <admin-search>Boolean</admin-search>
  </ldap-options>
  <radius-servers>
    <radius-server>
      <port>Integer</port>
      <routing-instance>String</routing-instance>
      <time-out>Integer</time-out>
      <address>String</address>
      <src-address>String</src-address>
      <retry>Integer</retry>
      <secret>String</secret>
    </radius-server>
  </radius-servers>
  <local-xauths>
    <local-xauth>
      <userName>String</userName>
      <password>String</password>
      <xauthIPAddress>String</xauthIPAddress>
      <group>String</group>
    </local-xauth>
  </local-xauths>
  <description>String</description>
  <delete-from-device>Boolean</delete-from-device>
  <authentication-order1>LDAP</authentication-order1>
  <authentication-order1>Local</authentication-order1>
  <authentication-order1>NONE</authentication-order1>
  <authentication-order1>PASSWORD</authentication-order1>
  <authentication-order1>RADIUS</authentication-order1>
  <authentication-order1>SECURID</authentication-order1>
  <authentication-order2>LDAP</authentication-order2>
```


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```
  <authentication-order2>Local</authentication-order2>
  <authentication-order2>NONE</authentication-order2>
  <authentication-order2>PASSWORD</authentication-order2>
  <authentication-order2>RADIUS</authentication-order2>
  <authentication-order2>SECURID</authentication-order2>
  <name>String</name>
  <job-id>String</job-id>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
      <device-type>String</device-type>
    </device-lite>
  </device-list>
  <address-assignment>
    <id>Integer</id>
    <name>String</name>
    <moid>String</moid>
  </address-assignment>
</access-profile>
```

Sample JSON Output:

```
{
  "access-profile" : {
    "edit-version" : "Integer",
    "created-by-user-name" : "String",
    "global" : "String",
    "domain-name" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "last-modified-by-user-name" : "String",
    "ldap-servers" : {
      "ldap-server" : [ {
        "port" : "Integer",
        "routing-instance" : "String",
        "time-out" : "Integer",
        "address" : "String",
        "src-address" : "String",
        "retry" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "ldap-options" : {
      "assemble" : "Boolean",
      "common-name" : "String",
      "admin-password" : "String",
      "search-filter" : "String",
      "base-dn" : "String",
      "revert-interval" : "Long",
      "admin-dn" : "String",
      "admin-search" : "Boolean",
      "uri" : "String"
    },
    "radius-servers" : {
      "radius-server" : [ {
        "port" : "Integer",
        "routing-instance" : "String",
        "time-out" : "Integer",
        "address" : "String",
        "src-address" : "String",
        "retry" : "Integer",
        "uri" : "String",
        "secret" : "String"
```


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```
      } ],
      "uri" : "String"
    },
    "local-xauths" : {
      "local-xauth" : [ {
        "userName" : "String",
        "password" : "String",
        "xauthIPAddress" : "String",
        "group" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "description" : "String",
    "delete-from-device" : "Boolean",
    "authentication-order1" : [ "LDAP", "Local", "NONE", "PASSWORD", "RADIUS", "SECURID" ],
    "authentication-order2" : [ "LDAP", "Local", "NONE", "PASSWORD", "RADIUS", "SECURID" ],
    "name" : "String",
    "job-id" : "String",
    "domain-id" : "Integer",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "ip" : "String",
        "uri" : "String",
        "link" : "String",
        "device-type" : "String"
      } ],
      "uri" : "String"
    },
    "uri" : "String",
    "link" : "String",
    "address-assignment" : {
      "id" : "Integer",
      "name" : "String",
      "uri" : "String",
      "moid" : "String",
      "domain-id" : "Integer"
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<access-profile>
  <edit-version>Integer</edit-version>
  <created-by-user-name>String</created-by-user-name>
  <global>String</global>
  <domain-name>String</domain-name>
  <version>Integer</version>
  <id>Integer</id>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <ldap-servers>
    <ldap-server>
      <port>Integer</port>
      <routing-instance>String</routing-instance>
      <time-out>Integer</time-out>
      <address>String</address>
      <src-address>String</src-address>
      <retry>Integer</retry>
```


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```
      <uri>String</uri>
    </ldap-server>
    <uri>String</uri>
  </ldap-servers>
  <ldap-options>
    <assemble>Boolean</assemble>
    <common-name>String</common-name>
    <admin-password>String</admin-password>
    <search-filter>String</search-filter>
    <base-dn>String</base-dn>
    <revert-interval>Long</revert-interval>
    <admin-dn>String</admin-dn>
    <admin-search>Boolean</admin-search>
    <uri>String</uri>
  </ldap-options>
  <radius-servers>
    <radius-server>
      <port>Integer</port>
      <routing-instance>String</routing-instance>
      <time-out>Integer</time-out>
      <address>String</address>
      <src-address>String</src-address>
      <retry>Integer</retry>
      <uri>String</uri>
      <secret>String</secret>
    </radius-server>
    <uri>String</uri>
  </radius-servers>
  <local-xauths>
    <local-xauth>
      <userName>String</userName>
      <password>String</password>
      <xauthIPAddress>String</xauthIPAddress>
      <group>String</group>
      <uri>String</uri>
    </local-xauth>
    <uri>String</uri>
  </local-xauths>
  <description>String</description>
  <delete-from-device>Boolean</delete-from-device>
  <authentication-order1>LDAP</authentication-order1>
  <authentication-order1>Local</authentication-order1>
  <authentication-order1>NONE</authentication-order1>
  <authentication-order1>PASSWORD</authentication-order1>
  <authentication-order1>RADIUS</authentication-order1>
  <authentication-order1>SECURID</authentication-order1>
  <authentication-order2>LDAP</authentication-order2>
  <authentication-order2>Local</authentication-order2>
  <authentication-order2>NONE</authentication-order2>
  <authentication-order2>PASSWORD</authentication-order2>
  <authentication-order2>RADIUS</authentication-order2>
  <authentication-order2>SECURID</authentication-order2>
  <name>String</name>
  <job-id>String</job-id>
  <domain-id>Integer</domain-id>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <ip>String</ip>
      <uri>String</uri>
      <link>String</link>
```


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```
      <device-type>String</device-type>
    </device-lite>
    <uri>String</uri>
  </device-list>
  <uri>String</uri>
  <link>String</link>
  <address-assignment>
    <id>Integer</id>
    <name>String</name>
    <uri>String</uri>
    <moid>String</moid>
    <domain-id>Integer</domain-id>
  </address-assignment>
</access-profile>
```

Modify Access Profile

This request is used to modify an access profile.

URI	/api/juniper/sd/access-profile-management/access-profiles/{id}
HTTP method	PUT
Content-Type	application/vnd.sd.access-profile-management.access-profile+xml;version=1;charset=UTF-8 application/vnd.sd.access-profile-management.access-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.sd.access-profile-management.access-profile+xml;version=1;q=0.01 application/vnd.sd.access-profile-management.access-profile+json;version=1;q=0.01
Access-Control	modifyAccessProfile

Sample JSON Input

```
{
  "access-profile" : {
    "edit-version" : "Integer",
    "version" : "Integer",
    "id" : "Integer",
    "ldap-servers" : {
      "ldap-server" : [ {
        "port" : "Integer",
        "routing-instance" : "String",
        "time-out" : "Integer",
        "address" : "String",
        "src-address" : "String",
```


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```
      "retry" : "Integer"
    } ]
  },
  "ldap-options" : {
    "assemble" : "Boolean",
    "common-name" : "String",
    "admin-password" : "String",
    "search-filter" : "String",
    "base-dn" : "String",
    "revert-interval" : "Long",
    "admin-dn" : "String",
    "admin-search" : "Boolean"
  },
  "radius-servers" : {
    "radius-server" : [ {
      "port" : "Integer",
      "routing-instance" : "String",
      "time-out" : "Integer",
      "address" : "String",
      "src-address" : "String",
      "retry" : "Integer",
      "secret" : "String"
    } ]
  },
  "local-xauths" : {
    "local-xauth" : [ {
      "userName" : "String",
      "password" : "String",
      "xauthIPAddress" : "String",
      "group" : "String"
    } ]
  },
  "description" : "String",
  "delete-from-device" : "Boolean",
  "authentication-order1" : [ "LDAP", "Local", "NONE", "PASSWORD", "RADIUS", "SECURID" ],
  "authentication-order2" : [ "LDAP", "Local", "NONE", "PASSWORD", "RADIUS", "SECURID" ],
  "name" : "String",
  "job-id" : "String",
  "device-list" : {
    "device-lite" : [ {
      "id" : "Integer",
      "name" : "String",
      "ip" : "String",
      "device-type" : "String"
    } ]
  },
  "address-assignment" : {
    "id" : "Integer",
    "name" : "String",
    "moid" : "String"
  }
 }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<access-profile>
  <edit-version>Integer</edit-version>
  <version>Integer</version>
  <id>Integer</id>
  <ldap-servers>
    <ldap-server>
      <port>Integer</port>
      <routing-instance>String</routing-instance>
```


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```
      <time-out>Integer</time-out>
      <address>String</address>
      <src-address>String</src-address>
      <retry>Integer</retry>
    </ldap-server>
</ldap-servers>
<ldap-options>
    <assemble>Boolean</assemble>
    <common-name>String</common-name>
    <admin-password>String</admin-password>
    <search-filter>String</search-filter>
    <base-dn>String</base-dn>
    <revert-interval>Long</revert-interval>
    <admin-dn>String</admin-dn>
    <admin-search>Boolean</admin-search>
</ldap-options>
<radius-servers>
    <radius-server>
      <port>Integer</port>
      <routing-instance>String</routing-instance>
      <time-out>Integer</time-out>
      <address>String</address>
      <src-address>String</src-address>
      <retry>Integer</retry>
      <secret>String</secret>
    </radius-server>
</radius-servers>
<local-xauths>
    <local-xauth>
      <userName>String</userName>
      <password>String</password>
      <xauthIPAddress>String</xauthIPAddress>
      <group>String</group>
    </local-xauth>
</local-xauths>
<description>String</description>
<delete-from-device>Boolean</delete-from-device>
<authentication-order1>LDAP</authentication-order1>
<authentication-order1>Local</authentication-order1>
<authentication-order1>NONE</authentication-order1>
<authentication-order1>PASSWORD</authentication-order1>
<authentication-order1>RADIUS</authentication-order1>
<authentication-order1>SECURID</authentication-order1>
<authentication-order2>LDAP</authentication-order2>
<authentication-order2>Local</authentication-order2>
<authentication-order2>NONE</authentication-order2>
<authentication-order2>PASSWORD</authentication-order2>
<authentication-order2>RADIUS</authentication-order2>
<authentication-order2>SECURID</authentication-order2>
<name>String</name>
<job-id>String</job-id>
<device-list>
    <device-lite>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
      <device-type>String</device-type>
    </device-lite>
</device-list>
<address-assignment>
    <id>Integer</id>
    <name>String</name>
    <moid>String</moid>
</address-assignment>
```


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</access-profile>

Sample JSON Output:


```
{
  "access-profile" : {
    "edit-version" : "Integer",
    "created-by-user-name" : "String",
    "global" : "String",
    "domain-name" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "last-modified-by-user-name" : "String",
    "ldap-servers" : {
      "ldap-server" : [ {
        "port" : "Integer",
        "routing-instance" : "String",
        "time-out" : "Integer",
        "address" : "String",
        "src-address" : "String",
        "retry" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "ldap-options" : {
      "assemble" : "Boolean",
      "common-name" : "String",
      "admin-password" : "String",
      "search-filter" : "String",
      "base-dn" : "String",
      "revert-interval" : "Long",
      "admin-dn" : "String",
      "admin-search" : "Boolean",
      "uri" : "String"
    },
    "radius-servers" : {
      "radius-server" : [ {
        "port" : "Integer",
        "routing-instance" : "String",
        "time-out" : "Integer",
        "address" : "String",
        "src-address" : "String",
        "retry" : "Integer",
        "uri" : "String",
        "secret" : "String"
      } ],
      "uri" : "String"
    },
    "local-xauths" : {
      "local-xauth" : [ {
        "userName" : "String",
        "password" : "String",
        "xauthIPAddress" : "String",
        "group" : "String",
        "uri" : "String"
      } ],
```


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```
    "uri" : "String"
   },
   "description" : "String",
   "delete-from-device" : "Boolean",
   "authentication-order1" : [ "LDAP", "Local", "NONE", "PASSWORD", "RADIUS", "SECURID" ],
   "authentication-order2" : [ "LDAP", "Local", "NONE", "PASSWORD", "RADIUS", "SECURID" ],
   "name" : "String",
   "job-id" : "String",
   "domain-id" : "Integer",
   "device-list" : {
    "device-lite" : [ {
     "id" : "Integer",
     "domain-id" : "Integer",
     "name" : "String",
     "domain-name" : "String",
     "ip" : "String",
     "uri" : "String",
     "link" : "String",
     "device-type" : "String"
    } ],
    "uri" : "String"
   },
   "uri" : "String",
   "link" : "String",
   "address-assignment" : {
    "id" : "Integer",
    "name" : "String",
    "uri" : "String",
    "moid" : "String",
    "domain-id" : "Integer"
   }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<access-profile>
  <edit-version>Integer</edit-version>
  <created-by-user-name>String</created-by-user-name>
  <global>String</global>
  <domain-name>String</domain-name>
  <version>Integer</version>
  <id>Integer</id>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <ldap-servers>
    <ldap-server>
      <port>Integer</port>
      <routing-instance>String</routing-instance>
      <time-out>Integer</time-out>
      <address>String</address>
      <src-address>String</src-address>
      <retry>Integer</retry>
      <uri>String</uri>
    </ldap-server>
    <uri>String</uri>
  </ldap-servers>
  <ldap-options>
    <assemble>Boolean</assemble>
    <common-name>String</common-name>
    <admin-password>String</admin-password>
    <search-filter>String</search-filter>
    <base-dn>String</base-dn>
    <revert-interval>Long</revert-interval>
```


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```
    <admin-dn>String</admin-dn>
    <admin-search>Boolean</admin-search>
    <uri>String</uri>
  </ldap-options>
  <radius-servers>
    <radius-server>
      <port>Integer</port>
      <routing-instance>String</routing-instance>
      <time-out>Integer</time-out>
      <address>String</address>
      <src-address>String</src-address>
      <retry>Integer</retry>
      <uri>String</uri>
      <secret>String</secret>
    </radius-server>
    <uri>String</uri>
  </radius-servers>
  <local-xauths>
    <local-xauth>
      <userName>String</userName>
      <password>String</password>
      <xauthIPAddress>String</xauthIPAddress>
      <group>String</group>
      <uri>String</uri>
    </local-xauth>
    <uri>String</uri>
  </local-xauths>
  <description>String</description>
  <delete-from-device>Boolean</delete-from-device>
  <authentication-order1>LDAP</authentication-order1>
  <authentication-order1>Local</authentication-order1>
  <authentication-order1>NONE</authentication-order1>
  <authentication-order1>PASSWORD</authentication-order1>
  <authentication-order1>RADIUS</authentication-order1>
  <authentication-order1>SECURID</authentication-order1>
  <authentication-order2>LDAP</authentication-order2>
  <authentication-order2>Local</authentication-order2>
  <authentication-order2>NONE</authentication-order2>
  <authentication-order2>PASSWORD</authentication-order2>
  <authentication-order2>RADIUS</authentication-order2>
  <authentication-order2>SECURID</authentication-order2>
  <name>String</name>
  <job-id>String</job-id>
  <domain-id>Integer</domain-id>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <ip>String</ip>
      <uri>String</uri>
      <link>String</link>
      <device-type>String</device-type>
    </device-lite>
    <uri>String</uri>
  </device-list>
  <uri>String</uri>
  <link>String</link>
  <address-assignment>
    <id>Integer</id>
    <name>String</name>
    <uri>String</uri>
    <moid>String</moid>
```


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```
    <domain-id>Integer</domain-id>
  </address-assignment>
</access-profile>
```

Get Access Profile By ID

This request is used to get an access profile by ID.

URI	/api/juniper/sd/access-profile-management/access-profiles/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.sd.access-profile-management.access-profile+xml;version=1;q=0.01 application/vnd.sd.access-profile-management.access-profile+json;version=1;q=0.01
Access-Control	manageAccessProfile

Sample JSON Output:

```
{
  "access-profile" : {
    "edit-version" : "Integer",
    "created-by-user-name" : "String",
    "global" : "String",
    "domain-name" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "last-modified-by-user-name" : "String",
    "ldap-servers" : {
      "ldap-server" : [ {
        "port" : "Integer",
        "routing-instance" : "String",
        "time-out" : "Integer",
        "address" : "String",
        "src-address" : "String",
        "retry" : "Integer",
        "uri" : "String"
      } ],
```


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```
  "uri" : "String"
},
"ldap-options" : {
  "assemble" : "Boolean",
  "common-name" : "String",
  "admin-password" : "String",
  "search-filter" : "String",
  "base-dn" : "String",
  "revert-interval" : "Long",
  "admin-dn" : "String",
  "admin-search" : "Boolean",
  "uri" : "String"
},
"radius-servers" : {
  "radius-server" : [ {
    "port" : "Integer",
    "routing-instance" : "String",
    "time-out" : "Integer",
    "address" : "String",
    "src-address" : "String",
    "retry" : "Integer",
    "uri" : "String",
    "secret" : "String"
  } ],
  "uri" : "String"
},
"local-xauths" : {
  "local-xauth" : [ {
    "userName" : "String",
    "password" : "String",
    "xauthIPAddress" : "String",
    "group" : "String",
    "uri" : "String"
  } ],
  "uri" : "String"
},
"description" : "String",
"delete-from-device" : "Boolean",
"authentication-order1" : [ "LDAP", "Local", "NONE", "PASSWORD", "RADIUS", "SECURID" ],
"authentication-order2" : [ "LDAP", "Local", "NONE", "PASSWORD", "RADIUS", "SECURID" ],
"name" : "String",
"job-id" : "String",
"domain-id" : "Integer",
"device-list" : {
  "device-lite" : [ {
    "id" : "Integer",
    "domain-id" : "Integer",
    "name" : "String",
    "domain-name" : "String",
    "ip" : "String",
    "uri" : "String",
    "link" : "String",
    "device-type" : "String"
  } ],
  "uri" : "String"
},
"uri" : "String",
"link" : "String",
"address-assignment" : {
  "id" : "Integer",
  "name" : "String",
  "uri" : "String",
  "moid" : "String",
  "domain-id" : "Integer"
```


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```
    }
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<access-profile>
  <edit-version>Integer</edit-version>
  <created-by-user-name>String</created-by-user-name>
  <global>String</global>
  <domain-name>String</domain-name>
  <version>Integer</version>
  <id>Integer</id>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <ldap-servers>
    <ldap-server>
      <port>Integer</port>
      <routing-instance>String</routing-instance>
      <time-out>Integer</time-out>
      <address>String</address>
      <src-address>String</src-address>
      <retry>Integer</retry>
      <uri>String</uri>
    </ldap-server>
    <uri>String</uri>
  </ldap-servers>
  <ldap-options>
    <assemble>Boolean</assemble>
    <common-name>String</common-name>
    <admin-password>String</admin-password>
    <search-filter>String</search-filter>
    <base-dn>String</base-dn>
    <revert-interval>Long</revert-interval>
    <admin-dn>String</admin-dn>
    <admin-search>Boolean</admin-search>
    <uri>String</uri>
  </ldap-options>
  <radius-servers>
    <radius-server>
      <port>Integer</port>
      <routing-instance>String</routing-instance>
      <time-out>Integer</time-out>
      <address>String</address>
      <src-address>String</src-address>
      <retry>Integer</retry>
      <uri>String</uri>
      <secret>String</secret>
    </radius-server>
    <uri>String</uri>
  </radius-servers>
  <local-xauths>
    <local-xauth>
      <userName>String</userName>
      <password>String</password>
      <xauthIPAddress>String</xauthIPAddress>
      <group>String</group>
      <uri>String</uri>
    </local-xauth>
```


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```
    <uri>String</uri>
  </local-xauths>
  <description>String</description>
  <delete-from-device>Boolean</delete-from-device>
  <authentication-order1>LDAP</authentication-order1>
  <authentication-order1>Local</authentication-order1>
  <authentication-order1>NONE</authentication-order1>
  <authentication-order1>PASSWORD</authentication-order1>
  <authentication-order1>RADIUS</authentication-order1>
  <authentication-order1>SECURID</authentication-order1>
  <authentication-order2>LDAP</authentication-order2>
  <authentication-order2>Local</authentication-order2>
  <authentication-order2>NONE</authentication-order2>
  <authentication-order2>PASSWORD</authentication-order2>
  <authentication-order2>RADIUS</authentication-order2>
  <authentication-order2>SECURID</authentication-order2>
  <name>String</name>
  <job-id>String</job-id>
  <domain-id>Integer</domain-id>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <ip>String</ip>
      <uri>String</uri>
      <link>String</link>
      <device-type>String</device-type>
    </device-lite>
    <uri>String</uri>
  </device-list>
  <uri>String</uri>
  <link>String</link>
  <address-assignment>
    <id>Integer</id>
    <name>String</name>
    <uri>String</uri>
    <moid>String</moid>
    <domain-id>Integer</domain-id>
  </address-assignment>
</access-profile>
```

Get All Access Profiles

This request is used to list all the access profiles.

URI	/api/juniper/sd/access-profile-management/access-profiles
HTTP method	GET

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Content-Type	None
Accept-Type	application/vnd.sd.access-profile-management.access-profiles+xml;version=1;q=0.01 application/vnd.sd.access-profile-management.access-profiles+json;version=1;q=0.01
Access-Control	manageAccessProfile

Sample JSON Output:


```
{
  "access-profiles" : {
    "access-profile" : [ {
      "edit-version" : "Integer",
      "created-by-user-name" : "String",
      "global" : "String",
      "domain-name" : "String",
      "version" : "Integer",
      "ldap-servers" : {
        "ldap-server" : [ {
          "port" : "Integer",
          "routing-instance" : "String",
          "time-out" : "Integer",
          "address" : "String",
          "src-address" : "String",
          "retry" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "radius-servers" : {
        "radius-server" : [ {
          "port" : "Integer",
          "routing-instance" : "String",
          "secret" : "String",
          "time-out" : "Integer",
          "address" : "String",
          "src-address" : "String",
          "retry" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "local-xauths" : {
        "local-xauth" : [ {
          "userName" : "String",
          "password" : "String",
          "xauthIPAddress" : "String",
          "group" : "String",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "id" : "Integer",
      "last-modified-by-user-name" : "String",
      "ldap-options" : {
```


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```
      "assemble" : "Boolean",
      "common-name" : "String",
      "admin-password" : "String",
      "search-filter" : "String",
      "base-dn" : "String",
      "revert-interval" : "Long",
      "admin-dn" : "String",
      "admin-search" : "Boolean",
      "uri" : "String"
    },
    "description" : "String",
    "authentication-order1" : [ "LDAP", "Local", "NONE", "PASSWORD", "RADIUS", "SECURID" ],
    "authentication-order2" : [ "LDAP", "Local", "NONE", "PASSWORD", "RADIUS", "SECURID" ],
    "name" : "String",
    "domain-id" : "Integer",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "ip" : "String",
        "uri" : "String",
        "link" : "String"
      } ],
      "uri" : "String"
    },
    "uri" : "String",
    "link" : "String",
    "address-assignment" : {
      "id" : "Integer",
      "name" : "String",
      "uri" : "String",
      "moid" : "String",
      "domain-id" : "Integer"
    }
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<access-profiles>
  <access-profile>
    <edit-version>Integer</edit-version>
    <created-by-user-name>String</created-by-user-name>
    <global>String</global>
    <domain-name>String</domain-name>
    <version>Integer</version>
    <ldap-servers>
      <ldap-server>
        <port>Integer</port>
        <routing-instance>String</routing-instance>
        <time-out>Integer</time-out>
        <address>String</address>
        <src-address>String</src-address>
        <retry>Integer</retry>
        <uri>String</uri>
      </ldap-server>
      <uri>String</uri>
    </ldap-servers>
```


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```
<radius-servers>
  <radius-server>
    <port>Integer</port>
    <routing-instance>String</routing-instance>
    <secret>String</secret>
    <time-out>Integer</time-out>
    <address>String</address>
    <src-address>String</src-address>
    <retry>Integer</retry>
    <uri>String</uri>
  </radius-server>
  <uri>String</uri>
</radius-servers>
<local-xauths>
  <local-xauth>
    <userName>String</userName>
    <password>String</password>
    <xauthIPAddress>String</xauthIPAddress>
    <group>String</group>
    <uri>String</uri>
  </local-xauth>
  <uri>String</uri>
</local-xauths>
<id>Integer</id>
<last-modified-by-user-name>String</last-modified-by-user-name>
<ldap-options>
  <assemble>Boolean</assemble>
  <common-name>String</common-name>
  <admin-password>String</admin-password>
  <search-filter>String</search-filter>
  <base-dn>String</base-dn>
  <revert-interval>Long</revert-interval>
  <admin-dn>String</admin-dn>
  <admin-search>Boolean</admin-search>
  <uri>String</uri>
</ldap-options>
<description>String</description>
<authentication-order1>LDAP</authentication-order1>
<authentication-order1>Local</authentication-order1>
<authentication-order1>NONE</authentication-order1>
<authentication-order1>PASSWORD</authentication-order1>
<authentication-order1>RADIUS</authentication-order1>
<authentication-order1>SECURID</authentication-order1>
<authentication-order2>LDAP</authentication-order2>
<authentication-order2>Local</authentication-order2>
<authentication-order2>NONE</authentication-order2>
<authentication-order2>PASSWORD</authentication-order2>
<authentication-order2>RADIUS</authentication-order2>
<authentication-order2>SECURID</authentication-order2>
<name>String</name>
<domain-id>Integer</domain-id>
<device-list>
  <device-lite>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <domain-name>String</domain-name>
    <ip>String</ip>
    <uri>String</uri>
    <link>String</link>
  </device-lite>
  <uri>String</uri>
</device-list>
<uri>String</uri>
```


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```
    <link>String</link>
    <address-assignment>
      <id>Integer</id>
      <name>String</name>
      <uri>String</uri>
      <moid>String</moid>
      <domain-id>Integer</domain-id>
    </address-assignment>
  </access-profile>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</access-profiles>
```

Delete Access Profile By ID

This request is used to delete an access profile by ID.

URI	/api/juniper/sd/access-profile-management/access-profiles/{id}?deleteFromDevice=boolean
HTTP method	DELETE
Content-Type	None
Accept-Type	application/vnd.net.juniper.space.job-management.task+xml;version=1;q=0.01 application/vnd.net.juniper.space.job-management.task+json;version=1;q=0.01
Access-Control	deleteAccessProfile

Sample JSON Output:

```
{
  "task" : {
    "id" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<task>
   <id>String</id>
</task>
```


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CHAPTER 6

Active Directory Management RESTful Web Services

The following opertions can be performed using Secuirty Director Active Directory Management RESTful Web Services

Modify Active Directory

This request is used to modify an active directory.

URI	/api/juniper/sd/active-directory-management/active-directories/{id}
HTTP method	PUT
Content-Type	application/vnd.sd.active-directory-management.active-directory+xml;version=2;charset=UTF-8 application/vnd.sd.active-directory-management.active-directory+json;version=2;charset=UTF-8
Accept-Type	application/vnd.sd.active-directory-management.active-directory+xml;version=2;q=0.02 application/vnd.sd.active-directory-management.active-directory+json;version=2;q=0.02
Access-Control	modifyActiveDirectory

Sample JSON Input

```
{
  "active-directory" : {
    "id" : "Integer",
    "delete-from-device" : "Boolean",
    "job-id" : "String",
    "version" : "Integer",
    "domains" : {
      "domain" : [ {
        "event-log-time-span" : "Integer",
        "user-password" : "String",
        "event-log-interval" : "Integer",
        "user-grp-password" : "String",
```


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```
        "authentication-algorithm" : "Boolean",
        "user-grp-name" : "String",
        "use-ssl" : "Boolean",
        "domain-description" : "String",
        "domain-controllers" : {
          "domain-controller" : [ {
            "domain-controller-ip-address" : "String",
            "domain-controller-name" : "String"
          } ],
          "totalSize" : "Integer"
        },
        "ldap-addresses" : {
          "ldap-address" : [ {
            "user-grp-ip-address" : "String",
            "user-grp-port" : "String"
          } ],
          "totalSize" : "Integer"
        },
        "base" : "String",
        "user-name" : "String"
      } ]
    },
    "edit-version" : "Integer",
    "authentication-time-out" : "Integer",
    "exclude-filter-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ]
      } ]
    },
    "on-demand-probe" : "Boolean",
    "description" : "String",
    "name" : "String",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "name" : "String",
        "ip" : "String"
      } ]
    },
    "include-filter-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ]
      } ]
    },
    "wmi-time-out" : "Integer",
    "invalid-authenticationEntry-time-out" : "Integer",
    "fw-authentication-forced-time-out" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ]
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<active-directory>
  <id>Integer</id>
  <delete-from-device>Boolean</delete-from-device>
  <job-id>String</job-id>
  <version>Integer</version>
  <domains>
    <domain>
      <event-log-time-span>Integer</event-log-time-span>
      <user-password>String</user-password>
      <event-log-interval>Integer</event-log-interval>
      <user-grp-password>String</user-grp-password>
      <authentication-algorithm>Boolean</authentication-algorithm>
      <user-grp-name>String</user-grp-name>
      <use-ssl>Boolean</use-ssl>
      <domain-description>String</domain-description>
      <domain-controllers>
        <domain-controller>
          <domain-controller-ip-address>String</domain-controller-ip-address>
          <domain-controller-name>String</domain-controller-name>
        </domain-controller>
        <totalSize>Integer</totalSize>
      </domain-controllers>
      <ldap-addresses>
        <ldap-address>
          <user-grp-ip-address>String</user-grp-ip-address>
          <user-grp-port>String</user-grp-port>
        </ldap-address>
        <totalSize>Integer</totalSize>
      </ldap-addresses>
      <base>String</base>
      <user-name>String</user-name>
    </domain>
  </domains>
  <edit-version>Integer</edit-version>
  <authentication-time-out>Integer</authentication-time-out>
  <exclude-filter-addresses>
    <address-reference>
      <id>Integer</id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
    </address-reference>
  </exclude-filter-addresses>
  <on-demand-probe>Boolean</on-demand-probe>
  <description>String</description>
  <name>String</name>
```


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```
  <device-list>
    <device-lite>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
    </device-lite>
  </device-list>
  <include-filter-addresses>
    <address-reference>
      <id>Integer</id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
    </address-reference>
  </include-filter-addresses>
  <wmi-time-out>Integer</wmi-time-out>
  <invalid-authenticationEntry-time-out>Integer</invalid-authenticationEntry-time-out>
  <fw-authentication-forced-time-out>Integer</fw-authentication-forced-time-out>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
</active-directory>
```

Sample JSON Output:

```
{
  "active-directory" : {
    "created-by-user-name" : "String",
    "id" : "Integer",
    "delete-from-device" : "Boolean",
    "job-id" : "String",
    "version" : "Integer",
    "domains" : {
      "domain" : [ {
        "event-log-time-span" : "Integer",
        "user-password" : "String",
        "event-log-interval" : "Integer",
        "domain-name" : "String",
        "user-grp-password" : "String",
        "authentication-algorithm" : "Boolean",
        "user-grp-name" : "String",
        "use-ssl" : "Boolean",
        "domain-description" : "String",
        "domain-controllers" : {
          "domain-controller" : [ {
            "domain-controller-ip-address" : "String",
            "domain-controller-name" : "String",
            "uri" : "String"
          } ],
          "uri" : "String",
```


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```
        "totalSize" : "Integer"
      },
      "ldap-addresses" : {
        "ldap-address" : [ {
          "user-grp-ip-address" : "String",
          "user-grp-port" : "String",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "base" : "String",
      "user-name" : "String",
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "domain-id" : "Integer",
  "global" : "String",
  "domain-name" : "String",
  "edit-version" : "Integer",
  "authentication-time-out" : "Integer",
  "exclude-filter-addresses" : {
    "address-reference" : [ {
      "id" : "Integer",
      "domain-id" : "Integer",
      "name" : "String",
      "domain-name" : "String",
      "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "on-demand-probe" : "Boolean",
  "description" : "String",
  "name" : "String",
  "device-list" : {
    "device-lite" : [ {
      "id" : "Integer",
      "domain-id" : "Integer",
      "name" : "String",
      "ip" : "String",
      "domain-name" : "String",
      "uri" : "String",
      "link" : "String"
    } ],
    "uri" : "String"
  },
  "include-filter-addresses" : {
    "address-reference" : [ {
      "id" : "Integer",
      "domain-id" : "Integer",
      "name" : "String",
      "domain-name" : "String",
      "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "wmi-time-out" : "Integer",
```


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```
    "invalid-authenticationEntry-time-out" : "Integer",
    "fw-authentication-forced-time-out" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "last-modified-by-user-name" : "String",
    "uri" : "String",
    "link" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<active-directory>
  <created-by-user-name>String</created-by-user-name>
  <id>Integer</id>
  <delete-from-device>Boolean</delete-from-device>
  <job-id>String</job-id>
  <version>Integer</version>
  <domains>
    <domain>
      <event-log-time-span>Integer</event-log-time-span>
      <user-password>String</user-password>
      <event-log-interval>Integer</event-log-interval>
      <domain-name>String</domain-name>
      <user-grp-password>String</user-grp-password>
      <authentication-algorithm>Boolean</authentication-algorithm>
      <user-grp-name>String</user-grp-name>
      <use-ssl>Boolean</use-ssl>
      <domain-description>String</domain-description>
      <domain-controllers>
        <domain-controller>
          <domain-controller-ip-address>String</domain-controller-ip-address>
          <domain-controller-name>String</domain-controller-name>
          <uri>String</uri>
        </domain-controller>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </domain-controllers>
      <ldap-addresses>
        <ldap-address>
          <user-grp-ip-address>String</user-grp-ip-address>
          <user-grp-port>String</user-grp-port>
          <uri>String</uri>
        </ldap-address>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </ldap-addresses>
      <base>String</base>
      <user-name>String</user-name>
      <uri>String</uri>
    </domain>
    <uri>String</uri>
  </domains>
  <domain-id>Integer</domain-id>
  <global>String</global>
  <domain-name>String</domain-name>
  <edit-version>Integer</edit-version>
  <authentication-time-out>Integer</authentication-time-out>
  <exclude-filter-addresses>
    <address-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
```


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```
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <uri>String</uri>
    </address-reference>
    <uri>String</uri>
</exclude-filter-addresses>
<on-demand-probe>Boolean</on-demand-probe>
<description>String</description>
<name>String</name>
<device-list>
    <device-lite>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <ip>String</ip>
      <domain-name>String</domain-name>
      <uri>String</uri>
      <link>String</link>
    </device-lite>
    <uri>String</uri>
</device-list>
<include-filter-addresses>
    <address-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <uri>String</uri>
    </address-reference>
    <uri>String</uri>
</include-filter-addresses>
<wmi-time-out>Integer</wmi-time-out>
```


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```
  <invalid-authenticationEntry-time-out>Integer</invalid-authenticationEntry-time-out>
  <fw-authentication-forced-time-out>Integer</fw-authentication-forced-time-out>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
  <link>String</link>
</active-directory>
```

Get Active Directory By ID

This request is used to get an active directory details by ID.

URI	/api/juniper/sd/active-directory-management/active-directories/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.sd.active-directory-management.active-directory+xml;version=2;q=0.02 application/vnd.sd.active-directory-management.active-directory+json;version=2;q=0.02
Access-Control	manageActiveDirectory

Sample JSON Output:

```
{
  "active-directory" : {
    "created-by-user-name" : "String",
    "id" : "Integer",
    "delete-from-device" : "Boolean",
    "job-id" : "String",
    "version" : "Integer",
    "domains" : {
      "domain" : [ {
        "event-log-time-span" : "Integer",
        "user-password" : "String",
        "event-log-interval" : "Integer",
        "domain-name" : "String",
        "user-grp-password" : "String",
        "authentication-algorithm" : "Boolean",
        "user-grp-name" : "String",
        "use-ssl" : "Boolean",
        "domain-description" : "String",
```


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```
      "domain-controllers" : {
        "domain-controller" : [ {
          "domain-controller-ip-address" : "String",
          "domain-controller-name" : "String",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "ldap-addresses" : {
        "ldap-address" : [ {
          "user-grp-ip-address" : "String",
          "user-grp-port" : "String",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "base" : "String",
      "user-name" : "String",
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "domain-id" : "Integer",
  "global" : "String",
  "domain-name" : "String",
  "edit-version" : "Integer",
  "authentication-time-out" : "Integer",
  "exclude-filter-addresses" : {
    "address-reference" : [ {
      "id" : "Integer",
      "domain-id" : "Integer",
      "name" : "String",
      "domain-name" : "String",
      "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "on-demand-probe" : "Boolean",
  "description" : "String",
  "name" : "String",
  "device-list" : {
    "device-lite" : [ {
      "id" : "Integer",
      "domain-id" : "Integer",
      "name" : "String",
      "ip" : "String",
      "domain-name" : "String",
      "uri" : "String",
      "link" : "String"
    } ],
    "uri" : "String"
  },
  "include-filter-addresses" : {
    "address-reference" : [ {
      "id" : "Integer",
      "domain-id" : "Integer",
      "name" : "String",
      "domain-name" : "String",
      "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
```


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```
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
       "uri" : "String"
     } ],
     "uri" : "String"
   },
   "wmi-time-out" : "Integer",
   "invalid-authenticationEntry-time-out" : "Integer",
   "fw-authentication-forced-time-out" : "Integer",
   "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
   "last-modified-by-user-name" : "String",
   "uri" : "String",
   "link" : "String"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<active-directory>
  <created-by-user-name>String</created-by-user-name>
  <id>Integer</id>
  <delete-from-device>Boolean</delete-from-device>
  <job-id>String</job-id>
  <version>Integer</version>
  <domains>
    <domain>
      <event-log-time-span>Integer</event-log-time-span>
      <user-password>String</user-password>
      <event-log-interval>Integer</event-log-interval>
      <domain-name>String</domain-name>
      <user-grp-password>String</user-grp-password>
      <authentication-algorithm>Boolean</authentication-algorithm>
      <user-grp-name>String</user-grp-name>
      <use-ssl>Boolean</use-ssl>
      <domain-description>String</domain-description>
      <domain-controllers>
        <domain-controller>
          <domain-controller-ip-address>String</domain-controller-ip-address>
          <domain-controller-name>String</domain-controller-name>
          <uri>String</uri>
        </domain-controller>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </domain-controllers>
      <ldap-addresses>
        <ldap-address>
          <user-grp-ip-address>String</user-grp-ip-address>
          <user-grp-port>String</user-grp-port>
          <uri>String</uri>
        </ldap-address>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </ldap-addresses>
      <base>String</base>
      <user-name>String</user-name>
      <uri>String</uri>
    </domain>
    <uri>String</uri>
  </domains>
  <domain-id>Integer</domain-id>
  <global>String</global>
  <domain-name>String</domain-name>
  <edit-version>Integer</edit-version>
```


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```
<authentication-time-out>Integer</authentication-time-out>
<exclude-filter-addresses>
  <address-reference>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <domain-name>String</domain-name>
    <address-type>IPADDRESS</address-type>
    <address-type>DELETED_1</address-type>
    <address-type>GROUP</address-type>
    <address-type>RANGE</address-type>
    <address-type>NETWORK</address-type>
    <address-type>INTERNET</address-type>
    <address-type>WILDCARD</address-type>
    <address-type>DNS</address-type>
    <address-type>POLYMORPHIC</address-type>
    <address-type>ANY</address-type>
    <address-type>ANY_IPV4</address-type>
    <address-type>ANY_IPV6</address-type>
    <address-type>ALL_IPV6</address-type>
    <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
    <address-type>Z_TYPE_IMPORT</address-type>
    <address-type>IPS_TYPE_IMPORT</address-type>
    <address-type>FEED_TYPE</address-type>
    <uri>String</uri>
  </address-reference>
  <uri>String</uri>
</exclude-filter-addresses>
<on-demand-probe>Boolean</on-demand-probe>
<description>String</description>
<name>String</name>
<device-list>
  <device-lite>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <ip>String</ip>
    <domain-name>String</domain-name>
    <uri>String</uri>
    <link>String</link>
  </device-lite>
  <uri>String</uri>
</device-list>
<include-filter-addresses>
  <address-reference>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <domain-name>String</domain-name>
    <address-type>IPADDRESS</address-type>
    <address-type>DELETED_1</address-type>
    <address-type>GROUP</address-type>
    <address-type>RANGE</address-type>
    <address-type>NETWORK</address-type>
    <address-type>INTERNET</address-type>
    <address-type>WILDCARD</address-type>
    <address-type>DNS</address-type>
    <address-type>POLYMORPHIC</address-type>
    <address-type>ANY</address-type>
    <address-type>ANY_IPV4</address-type>
    <address-type>ANY_IPV6</address-type>
    <address-type>ALL_IPV6</address-type>
    <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
    <address-type>Z_TYPE_IMPORT</address-type>
```


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```
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
        <uri>String</uri>
      </address-reference>
      <uri>String</uri>
    </include-filter-addresses>
    <wmi-time-out>Integer</wmi-time-out>
    <invalid-authenticationEntry-time-out>Integer</invalid-authenticationEntry-time-out>
    <fw-authentication-forced-time-out>Integer</fw-authentication-forced-time-out>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <uri>String</uri>
    <link>String</link>
  </active-directory>
```

Get All Active Directories

This request is used to list all the active directories in Security Director.

URI	/api/juniper/sd/active-directory-management/active-directories
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.sd.active-directory-management.active-directories+xml;version=2;q=0.02 application/vnd.sd.active-directory-management.active-directories+json;version=2;q=0.02
Access-Control	manageActiveDirectory

Sample JSON Output:

```
{
  "active-directories" : {
    "active-directory" : [ {
      "created-by-user-name" : "String",
      "id" : "Integer",
      "version" : "Integer",
      "domain-id" : "Integer",
      "global" : "String",
      "domain-name" : "String",
      "edit-version" : "Integer",
      "authentication-time-out" : "Integer",
```


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```
      "exclude-filter-addresses" : {
        "address-reference" : [ {
          "id" : "Integer",
          "domain-id" : "Integer",
          "name" : "String",
          "domain-name" : "String",
          "uri" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ]
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "on-demand-probe" : "Boolean",
      "description" : "String",
      "name" : "String",
      "devices" : {
        "device" : [ {
          "id" : "Integer",
          "domain-id" : "Integer",
          "name" : "String",
          "domain-name" : "String",
          "ip" : "String",
          "uri" : "String",
          "link" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "include-filter-addresses" : {
        "address-reference" : [ {
          "id" : "Integer",
          "domain-id" : "Integer",
          "name" : "String",
          "domain-name" : "String",
          "uri" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ]
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "domains" : {
        "domain" : [ {
          "event-log-time-span" : "Integer",
          "user-grp-ip-address" : "String",
          "user-password" : "String",
          "event-log-interval" : "Integer",
          "domain-name" : "String",
          "user-grp-password" : "String",
          "authentication-algorithm" : "Boolean",
          "user-grp-name" : "String",
          "use-ssl" : "Boolean",
          "domain-description" : "String",
          "user-grp-port" : "Integer",
          "domain-controllers" : {
            "domain-controller" : [ {
              "domain-controller-ip-address" : "String",
              "domain-controller-name" : "String",
              "uri" : "String"
            } ],
            "uri" : "String",
```


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```
        "totalSize" : "Integer"
       },
       "ldap-addresses" : {
        "ldap-address" : [ {
         "user-grp-ip-address" : "String",
         "user-grp-port" : "String",
         "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
       },
       "base" : "String",
       "user-name" : "String",
       "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
     },
     "wmi-time-out" : "Integer",
     "invalid-authenticationEntry-time-out" : "Integer",
     "fw-authentication-forced-time-out" : "Integer",
     "uri" : "String",
     "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
   }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<active-directories>
  <active-directory>
    <created-by-user-name>String</created-by-user-name>
    <id>Integer</id>
    <version>Integer</version>
    <domain-id>Integer</domain-id>
    <global>String</global>
    <domain-name>String</domain-name>
    <edit-version>Integer</edit-version>
    <authentication-time-out>Integer</authentication-time-out>
    <exclude-filter-addresses>
      <address-reference>
        <id>Integer</id>
        <domain-id>Integer</domain-id>
        <name>String</name>
        <domain-name>String</domain-name>
        <uri>String</uri>
        <address-type>IPADDRESS</address-type>
        <address-type>DELETED_1</address-type>
        <address-type>GROUP</address-type>
        <address-type>RANGE</address-type>
        <address-type>NETWORK</address-type>
        <address-type>INTERNET</address-type>
        <address-type>WILDCARD</address-type>
        <address-type>DNS</address-type>
        <address-type>POLYMORPHIC</address-type>
        <address-type>ANY</address-type>
        <address-type>ANY_IPV4</address-type>
        <address-type>ANY_IPV6</address-type>
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
```


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```
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
    </address-reference>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </exclude-filter-addresses>
  <on-demand-probe>Boolean</on-demand-probe>
  <description>String</description>
  <name>String</name>
  <devices>
    <device>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <ip>String</ip>
      <uri>String</uri>
      <link>String</link>
    </device>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </devices>
  <include-filter-addresses>
    <address-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <uri>String</uri>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
    </address-reference>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </include-filter-addresses>
  <domains>
    <domain>
      <event-log-time-span>Integer</event-log-time-span>
      <user-grp-ip-address>String</user-grp-ip-address>
      <user-password>String</user-password>
      <event-log-interval>Integer</event-log-interval>
      <domain-name>String</domain-name>
      <user-grp-password>String</user-grp-password>
      <authentication-algorithm>Boolean</authentication-algorithm>
      <user-grp-name>String</user-grp-name>
      <use-ssl>Boolean</use-ssl>
      <domain-description>String</domain-description>
      <user-grp-port>Integer</user-grp-port>
      <domain-controllers>
```


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```
      <domain-controller>
        <domain-controller-ip-address>String</domain-controller-ip-address>
        <domain-controller-name>String</domain-controller-name>
        <uri>String</uri>
      </domain-controller>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </domain-controllers>
    <ldap-addresses>
      <ldap-address>
        <user-grp-ip-address>String</user-grp-ip-address>
        <user-grp-port>String</user-grp-port>
        <uri>String</uri>
      </ldap-address>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </ldap-addresses>
    <base>String</base>
    <user-name>String</user-name>
    <uri>String</uri>
  </domain>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
 </domains>
 <wmi-time-out>Integer</wmi-time-out>
 <invalid-authenticationEntry-time-out>Integer</invalid-authenticationEntry-time-out>
 <fw-authentication-forced-time-out>Integer</fw-authentication-forced-time-out>
 <uri>String</uri>
 <link>String</link>
</active-directory>
<uri>String</uri>
<totalSize>Integer</totalSize>
</active-directories>
```


Delete Active Directory

This request is used to delete an Active Directory.

URI	/api/juniper/sd/active-directory-management/active-directories/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteActiveDirectory

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Create Active Directory

This request is used to create a new active directory.

URI	/api/juniper/sd/active-directory-management/active-directories
HTTP method	POST
Content-Type	application/vnd.sd.active-directory-management.active-directory+xml;version=2;charset=UTF-8 application/vnd.sd.active-directory-management.active-directory+json;version=2;charset=UTF-8
Accept-Type	application/vnd.sd.active-directory-management.active-directory+xml;version=2;q=0.02 application/vnd.sd.active-directory-management.active-directory+json;version=2;q=0.02
Access-Control	createActiveDirectory

Sample JSON Input


```
{
  "active-directory" : {
    "id" : "Integer",
    "delete-from-device" : "Boolean",
    "job-id" : "String",
    "version" : "Integer",
    "domains" : {
      "domain" : [ {
        "event-log-time-span" : "Integer",
        "user-password" : "String",
        "event-log-interval" : "Integer",
        "user-grp-password" : "String",
        "authentication-algorithm" : "Boolean",
        "user-grp-name" : "String",
        "use-ssl" : "Boolean",
        "domain-description" : "String",
        "domain-controllers" : {
          "domain-controller" : [ {
            "domain-controller-ip-address" : "String",
            "domain-controller-name" : "String"
          } ],
          "totalSize" : "Integer"
        },
        "ldap-addresses" : {
          "ldap-address" : [ {
            "user-grp-ip-address" : "String",
            "user-grp-port" : "String"
```


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```
        } ],
        "totalSize" : "Integer"
      },
      "base" : "String",
      "user-name" : "String"
    } ]
  },
  "edit-version" : "Integer",
  "authentication-time-out" : "Integer",
  "exclude-filter-addresses" : {
    "address-reference" : [ {
      "id" : "Integer",
      "name" : "String",
      "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ]
    } ]
  },
  "on-demand-probe" : "Boolean",
  "description" : "String",
  "name" : "String",
  "device-list" : {
    "device-lite" : [ {
      "id" : "Integer",
      "name" : "String",
      "ip" : "String"
    } ]
  },
  "include-filter-addresses" : {
    "address-reference" : [ {
      "id" : "Integer",
      "name" : "String",
      "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ]
    } ]
  },
  "wmi-time-out" : "Integer",
  "invalid-authenticationEntry-time-out" : "Integer",
  "fw-authentication-forced-time-out" : "Integer",
  "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ]
 }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<active-directory>
  <id>Integer</id>
  <delete-from-device>Boolean</delete-from-device>
  <job-id>String</job-id>
  <version>Integer</version>
  <domains>
    <domain>
      <event-log-time-span>Integer</event-log-time-span>
      <user-password>String</user-password>
      <event-log-interval>Integer</event-log-interval>
      <user-grp-password>String</user-grp-password>
      <authentication-algorithm>Boolean</authentication-algorithm>
      <user-grp-name>String</user-grp-name>
      <use-ssl>Boolean</use-ssl>
      <domain-description>String</domain-description>
      <domain-controllers>
        <domain-controller>
          <domain-controller-ip-address>String</domain-controller-ip-address>
```


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```
            <domain-controller-name>String</domain-controller-name>
          </domain-controller>
          <totalSize>Integer</totalSize>
        </domain-controllers>
        <ldap-addresses>
          <ldap-address>
            <user-grp-ip-address>String</user-grp-ip-address>
            <user-grp-port>String</user-grp-port>
          </ldap-address>
          <totalSize>Integer</totalSize>
        </ldap-addresses>
        <base>String</base>
        <user-name>String</user-name>
      </domain>
    </domains>
    <edit-version>Integer</edit-version>
    <authentication-time-out>Integer</authentication-time-out>
    <exclude-filter-addresses>
      <address-reference>
        <id>Integer</id>
        <name>String</name>
        <address-type>IPADDRESS</address-type>
        <address-type>DELETED_1</address-type>
        <address-type>GROUP</address-type>
        <address-type>RANGE</address-type>
        <address-type>NETWORK</address-type>
        <address-type>INTERNET</address-type>
        <address-type>WILDCARD</address-type>
        <address-type>DNS</address-type>
        <address-type>POLYMORPHIC</address-type>
        <address-type>ANY</address-type>
        <address-type>ANY_IPV4</address-type>
        <address-type>ANY_IPV6</address-type>
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
      </address-reference>
    </exclude-filter-addresses>
    <on-demand-probe>Boolean</on-demand-probe>
    <description>String</description>
    <name>String</name>
    <device-list>
      <device-lite>
        <id>Integer</id>
        <name>String</name>
        <ip>String</ip>
      </device-lite>
    </device-list>
    <include-filter-addresses>
      <address-reference>
        <id>Integer</id>
        <name>String</name>
        <address-type>IPADDRESS</address-type>
        <address-type>DELETED_1</address-type>
        <address-type>GROUP</address-type>
        <address-type>RANGE</address-type>
        <address-type>NETWORK</address-type>
        <address-type>INTERNET</address-type>
        <address-type>WILDCARD</address-type>
        <address-type>DNS</address-type>
        <address-type>POLYMORPHIC</address-type>
        <address-type>ANY</address-type>
```


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```
        <address-type>ANY_IPV4</address-type>
        <address-type>ANY_IPV6</address-type>
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
      </address-reference>
    </include-filter-addresses>
    <wmi-time-out>Integer</wmi-time-out>
    <invalid-authenticationEntry-time-out>Integer</invalid-authenticationEntry-time-out>
    <fw-authentication-forced-time-out>Integer</fw-authentication-forced-time-out>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
</active-directory>
```

Sample JSON Output:

```
{
  "active-directory" : {
    "created-by-user-name" : "String",
    "id" : "Integer",
    "delete-from-device" : "Boolean",
    "job-id" : "String",
    "version" : "Integer",
    "domains" : {
      "domain" : [ {
        "event-log-time-span" : "Integer",
        "user-password" : "String",
        "event-log-interval" : "Integer",
        "domain-name" : "String",
        "user-grp-password" : "String",
        "authentication-algorithm" : "Boolean",
        "user-grp-name" : "String",
        "use-ssl" : "Boolean",
        "domain-description" : "String",
        "domain-controllers" : {
          "domain-controller" : [ {
            "domain-controller-ip-address" : "String",
            "domain-controller-name" : "String",
            "uri" : "String"
          } ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "ldap-addresses" : {
          "ldap-address" : [ {
            "user-grp-ip-address" : "String",
            "user-grp-port" : "String",
            "uri" : "String"
          } ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "base" : "String",
        "user-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "domain-id" : "Integer",
    "global" : "String",
    "domain-name" : "String",
```


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```
    "edit-version" : "Integer",
    "authentication-time-out" : "Integer",
    "exclude-filter-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "on-demand-probe" : "Boolean",
    "description" : "String",
    "name" : "String",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "ip" : "String",
        "domain-name" : "String",
        "uri" : "String",
        "link" : "String"
      } ],
      "uri" : "String"
    },
    "include-filter-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "wmi-time-out" : "Integer",
    "invalid-authenticationEntry-time-out" : "Integer",
    "fw-authentication-forced-time-out" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "last-modified-by-user-name" : "String",
    "uri" : "String",
    "link" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<active-directory>
  <created-by-user-name>String</created-by-user-name>
  <id>Integer</id>
  <delete-from-device>Boolean</delete-from-device>
  <job-id>String</job-id>
  <version>Integer</version>
  <domains>
    <domain>
```


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```
      <event-log-time-span>Integer</event-log-time-span>
      <user-password>String</user-password>
      <event-log-interval>Integer</event-log-interval>
      <domain-name>String</domain-name>
      <user-grp-password>String</user-grp-password>
      <authentication-algorithm>Boolean</authentication-algorithm>
      <user-grp-name>String</user-grp-name>
      <use-ssl>Boolean</use-ssl>
      <domain-description>String</domain-description>
      <domain-controllers>
        <domain-controller>
          <domain-controller-ip-address>String</domain-controller-ip-address>
          <domain-controller-name>String</domain-controller-name>
          <uri>String</uri>
        </domain-controller>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </domain-controllers>
      <ldap-addresses>
        <ldap-address>
          <user-grp-ip-address>String</user-grp-ip-address>
          <user-grp-port>String</user-grp-port>
          <uri>String</uri>
        </ldap-address>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </ldap-addresses>
      <base>String</base>
      <user-name>String</user-name>
      <uri>String</uri>
    </domain>
    <uri>String</uri>
  </domains>
  <domain-id>Integer</domain-id>
  <global>String</global>
  <domain-name>String</domain-name>
  <edit-version>Integer</edit-version>
  <authentication-time-out>Integer</authentication-time-out>
  <exclude-filter-addresses>
    <address-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <uri>String</uri>
    </address-reference>
    <uri>String</uri>
```


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```
  </exclude-filter-addresses>
  <on-demand-probe>Boolean</on-demand-probe>
  <description>String</description>
  <name>String</name>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <ip>String</ip>
      <domain-name>String</domain-name>
      <uri>String</uri>
      <link>String</link>
    </device-lite>
    <uri>String</uri>
  </device-list>
  <include-filter-addresses>
    <address-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <uri>String</uri>
    </address-reference>
    <uri>String</uri>
  </include-filter-addresses>
  <wmi-time-out>Integer</wmi-time-out>
  <invalid-authenticationEntry-time-out>Integer</invalid-authenticationEntry-time-out>
  <fw-authentication-forced-time-out>Integer</fw-authentication-forced-time-out>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
  <link>String</link>
</active-directory>
```


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CHAPTER 7

Address Management RESTful Web Services

The following opertions can be performed using Secuirty Director Address Management RESTful Web Services

Update Existing Address Object

Modifies an existing address object identified by its ID.

URI	/api/juniper/sd/address-management/addresses/modify?toSendGuiAndSearchNotifications=boolean
HTTP method	PUT
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	ModifyAddress

Sample JSON Input

```
{
  "address" : {
    "addr_name" : "String",
    "name" : "String",
    "update_number" : "int",
    "edit_version" : "Integer",
    "address_refs" : [ ],
    "address_type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
    "ip_address" : "String",
    "description" : "String",
    "host_name" : "String",
    "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
    "address_version" : [ "IPV4", "IPV6", "MIXED" ],
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id_perms" : {
```


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```
    "created" : "String",
    "creator" : "String",
    "last_modified" : "String"
   },
   "to" : [ "String" ],
   "owning_system" : "String",
   "uuid" : "String",
   "variable_id" : "Integer",
   "associated_metadata" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<address>
  <addr_name>String</addr_name>
  <name>String</name>
  <update_number>int</update_number>
  <edit_version>Integer</edit_version>
  <address_type>IPADDRESS</address_type>
  <address_type>DELETED_1</address_type>
  <address_type>GROUP</address_type>
  <address_type>RANGE</address_type>
  <address_type>NETWORK</address_type>
  <address_type>INTERNET</address_type>
  <address_type>WILDCARD</address_type>
  <address_type>DNS</address_type>
  <address_type>POLYMORPHIC</address_type>
  <address_type>ANY</address_type>
  <address_type>ANY_IPV4</address_type>
  <address_type>ANY_IPV6</address_type>
  <address_type>ALL_IPV6</address_type>
  <address_type>DYNAMIC_ADDRESS_GROUP</address_type>
  <address_type>Z_TYPE_IMPORT</address_type>
  <address_type>IPS_TYPE_IMPORT</address_type>
  <address_type>FEED_TYPE</address_type>
  <ip_address>String</ip_address>
  <description>String</description>
  <host_name>String</host_name>
  <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
  <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
  <address_version>IPV4</address_version>
  <address_version>IPV6</address_version>
  <address_version>MIXED</address_version>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <to>String</to>
  <owning_system>String</owning_system>
  <uuid>String</uuid>
  <variable_id>Integer</variable_id>
  <associated_metadata>String</associated_metadata>
</address>
```


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Sample JSON Output:


```
{
  "address" : {
    "addr_name" : "String",
    "name" : "String",
    "update_number" : "int",
    "edit_version" : "Integer",
    "address_refs" : [ ],
    "address_type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
    "ip_address" : "String",
    "description" : "String",
    "host_name" : "String",
    "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
    "address_version" : [ "IPV4", "IPV6", "MIXED" ],
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "to" : [ "String" ],
    "owning_system" : "String",
    "uuid" : "String",
    "variable_id" : "Integer",
    "uri" : "String",
    "link" : "String",
    "domain-id" : "Integer",
    "associated_metadata" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<address>
  <addr_name>String</addr_name>
  <name>String</name>
  <update_number>int</update_number>
  <edit_version>Integer</edit_version>
  <address_type>IPADDRESS</address_type>
  <address_type>DELETED_1</address_type>
  <address_type>GROUP</address_type>
  <address_type>RANGE</address_type>
  <address_type>NETWORK</address_type>
  <address_type>INTERNET</address_type>
  <address_type>WILDCARD</address_type>
  <address_type>DNS</address_type>
  <address_type>POLYMORPHIC</address_type>
  <address_type>ANY</address_type>
  <address_type>ANY_IPV4</address_type>
  <address_type>ANY_IPV6</address_type>
  <address_type>ALL_IPV6</address_type>
  <address_type>DYNAMIC_ADDRESS_GROUP</address_type>
  <address_type>Z_TYPE_IMPORT</address_type>
  <address_type>IPS_TYPE_IMPORT</address_type>
  <address_type>FEED_TYPE</address_type>
  <ip_address>String</ip_address>
  <description>String</description>
  <host_name>String</host_name>
```


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```
  <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
  <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
  <address_version>IPV4</address_version>
  <address_version>IPV6</address_version>
  <address_version>MIXED</address_version>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <to>String</to>
  <owning_system>String</owning_system>
  <uuid>String</uuid>
  <variable_id>Integer</variable_id>
  <uri>String</uri>
  <link>String</link>
  <domain-id>Integer</domain-id>
  <associated_metadata>String</associated_metadata>
</address>
```

Update Shared Object Reference Counts

Increments or decrements the reference count for one or more shared objects.

URI	/api/juniper/sd/address-management/v5/ref-count-update
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageAddress

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Sample JSON Input

```
{
  "type" : "String"
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<type>String</type>
```

Sample JSON Output:

```
{
  "output" : {
    "ref_from_uuid" : "String",
    "ref_to_uuid" : "String",
    "ref_count" : "int"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<output>
   <ref_from_uuid>String</ref_from_uuid>
   <ref_to_uuid>String</ref_to_uuid>
   <ref_count>int</ref_count>
</output>
```

Retrieve Object References by UUIDs

Fetches references (ID, name, URI) for a list of objects specified by their UUIDs.

URI	/api/juniper/sd/address-management/v5/get_refs_by_uuids
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml

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Access-Control	manageAddress

Sample JSON Input

```
{
  "input" : {
    "object_uuids" : [ "String" ],
    "flatten" : "boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<input>
   <object_uuids>String</object_uuids>
   <flatten>boolean</flatten>
</input>
```

Sample JSON Output:

```
{
  "External_REFS" : {
    "refs" : [ {
      "objectuuid" : "String",
      "refs" : { }
    } ]
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<External_REFS>
   <refs>
      <objectuuid>String</objectuuid>
      <refs/>
   </refs>
</External_REFS>
```

Bulk Update Shared Object Reference Counts

Performs reference count updates (increment/decrement) for multiple shared objects in a single batch operation.

URI	/api/juniper/sd/address-management/v5/bulk-ref-count-update

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HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageAddress

Sample JSON Input

```
{
  "type" : "String"
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<type>String</type>
```

Sample JSON Output:

```
{
  "refUnrefOutputs" : [ {
    "ref_from_uuid" : "String",
    "ref_to_uuid" : "String",
    "ref_count" : "int"
  } ]
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<refUnrefOutputs>
   <ref_from_uuid>String</ref_from_uuid>
   <ref_to_uuid>String</ref_to_uuid>
   <ref_count>int</ref_count>
</refUnrefOutputs>
```

Get All Address (V5)

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This API lists detailed information of the address mentioned in the address ID field. If it is an

URI	/api/juniper/sd/address-management/v5/address
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageAddress

Sample JSON Output:


```
{
  "addresses" : {
    "address" : [ {
      "addr_name" : "String",
      "name" : "String",
      "update_number" : "int",
      "edit_version" : "Integer",
      "address_type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
      "ip_address" : "String",
      "description" : "String",
      "host_name" : "String",
      "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
      "address_version" : [ "IPV4", "IPV6", "MIXED" ],
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String",
        "last-modified-by-user-name" : "String",
        "created-time" : "Date",
        "last-modified-time" : "Date"
      },
      "to" : [ "String" ],
      "owning_system" : "String",
      "uuid" : "String",
      "uri" : "String",
      "domain-name" : "String",
      "link" : "String",
      "domain-id" : "Integer",
      "associated_metadata" : "String"
    } ],
    "totalSize" : "int"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<addresses>
  <address>
    <addr_name>String</addr_name>
    <name>String</name>
    <update_number>int</update_number>
    <edit_version>Integer</edit_version>
    <address_type>IPADDRESS</address_type>
    <address_type>DELETED_1</address_type>
    <address_type>GROUP</address_type>
    <address_type>RANGE</address_type>
    <address_type>NETWORK</address_type>
    <address_type>INTERNET</address_type>
    <address_type>WILDCARD</address_type>
    <address_type>DNS</address_type>
    <address_type>POLYMORPHIC</address_type>
    <address_type>ANY</address_type>
    <address_type>ANY_IPV4</address_type>
    <address_type>ANY_IPV6</address_type>
    <address_type>ALL_IPV6</address_type>
    <address_type>DYNAMIC_ADDRESS_GROUP</address_type>
    <address_type>Z_TYPE_IMPORT</address_type>
    <address_type>IPS_TYPE_IMPORT</address_type>
    <address_type>FEED_TYPE</address_type>
    <ip_address>String</ip_address>
    <description>String</description>
    <host_name>String</host_name>
    <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
    <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
    <address_version>IPV4</address_version>
    <address_version>IPV6</address_version>
    <address_version>MIXED</address_version>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <to>String</to>
    <owning_system>String</owning_system>
    <uuid>String</uuid>
    <uri>String</uri>
    <domain-name>String</domain-name>
    <link>String</link>
    <domain-id>Integer</domain-id>
    <associated_metadata>String</associated_metadata>
  </address>
```


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```
  <totalSize>int</totalSize>
</addresses>
```

Create External Address Object

Creates a new external address object in the system.

URI	/api/juniper/sd/address-management/v5/addressExternal
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	createAddressExternal

Sample JSON Input

```
{
  "address" : {
    "addr_name" : "String",
    "name" : "String",
    "update_number" : "int",
    "edit_version" : "Integer",
    "address_refs" : [ ],
    "address_type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
    "ip_address" : "String",
    "description" : "String",
    "host_name" : "String",
    "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
    "address_version" : [ "IPV4", "IPV6", "MIXED" ],
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "to" : [ "String" ],
```


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```
    "owning_system" : "String",
    "uuid" : "String",
    "variable_id" : "Integer",
    "associated_metadata" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<address>
  <addr_name>String</addr_name>
  <name>String</name>
  <update_number>int</update_number>
  <edit_version>Integer</edit_version>
  <address_type>IPADDRESS</address_type>
  <address_type>DELETED_1</address_type>
  <address_type>GROUP</address_type>
  <address_type>RANGE</address_type>
  <address_type>NETWORK</address_type>
  <address_type>INTERNET</address_type>
  <address_type>WILDCARD</address_type>
  <address_type>DNS</address_type>
  <address_type>POLYMORPHIC</address_type>
  <address_type>ANY</address_type>
  <address_type>ANY_IPV4</address_type>
  <address_type>ANY_IPV6</address_type>
  <address_type>ALL_IPV6</address_type>
  <address_type>DYNAMIC_ADDRESS_GROUP</address_type>
  <address_type>Z_TYPE_IMPORT</address_type>
  <address_type>IPS_TYPE_IMPORT</address_type>
  <address_type>FEED_TYPE</address_type>
  <ip_address>String</ip_address>
  <description>String</description>
  <host_name>String</host_name>
  <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
  <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
  <address_version>IPV4</address_version>
  <address_version>IPV6</address_version>
  <address_version>MIXED</address_version>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <to>String</to>
  <owning_system>String</owning_system>
  <uuid>String</uuid>
  <variable_id>Integer</variable_id>
  <associated_metadata>String</associated_metadata>
</address>
```


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Sample JSON Output:

```
{
  "type" : "String"
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<type>String</type>
```

Get Address by ID (V5)

This request is used to collect all the address objects that are configured in Security Director.

URI	/api/juniper/sd/address-management/v5/get_address_by_uuids
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageAddress

Sample JSON Input

```
{
  "input" : {
    "object_uuids" : [ "String" ],
    "flatten" : "boolean"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<input>
   <object_uuids>String</object_uuids>
   <flatten>boolean</flatten>
</input>
```

Sample JSON Output:

```
{
  "type" : "String"
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<type>String</type>
```

Retrieve Address Hashkey to Name Map

Fetches a mapping of internal hashkeys to address names.

URI	/api/juniper/sd/address-management/v5/addresses/hashkey-name-map
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageAddress

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Sample JSON Output:

```
{
  "NameValuelist" : {
    "nameValueList" : [ {
      "name" : "String",
      "value" : "String"
    } ]
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<NameValuelist>
   <nameValueList>
      <name>String</name>
      <value>String</value>
   </nameValueList>
</NameValuelist>
```

Import Address Objects

Imports (creates in bulk) multiple address objects into the system.

URI	/api/juniper/sd/address-management/v5/import
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageAddress

Sample JSON Input

```
{ }
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
```

Sample JSON Output:

```
{}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Modify Address (V5)

This request is used to modify an address. Because this is a full replace and if it is an address

URI	/api/juniper/sd/address-management/v5/address/{id}
HTTP method	PUT
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	ModifyAddress

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Sample JSON Input

```
{
  "address" : {
    "addr_name" : "String",
    "name" : "String",
    "update_number" : "int",
    "edit_version" : "Integer",
    "address_refs" : [ ],
    "address_type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
    "ip_address" : "String",
    "description" : "String",
    "host_name" : "String",
    "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
    "address_version" : [ "IPV4", "IPV6", "MIXED" ],
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "to" : [ "String" ],
    "owning_system" : "String",
    "uuid" : "String",
    "variable_id" : "Integer",
    "associated_metadata" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<address>
  <addr_name>String</addr_name>
  <name>String</name>
  <update_number>int</update_number>
  <edit_version>Integer</edit_version>
  <address_type>IPADDRESS</address_type>
  <address_type>DELETED_1</address_type>
  <address_type>GROUP</address_type>
  <address_type>RANGE</address_type>
  <address_type>NETWORK</address_type>
  <address_type>INTERNET</address_type>
  <address_type>WILDCARD</address_type>
  <address_type>DNS</address_type>
  <address_type>POLYMORPHIC</address_type>
  <address_type>ANY</address_type>
  <address_type>ANY_IPV4</address_type>
  <address_type>ANY_IPV6</address_type>
  <address_type>ALL_IPV6</address_type>
  <address_type>DYNAMIC_ADDRESS_GROUP</address_type>
  <address_type>Z_TYPE_IMPORT</address_type>
  <address_type>IPS_TYPE_IMPORT</address_type>
  <address_type>FEED_TYPE</address_type>
  <ip_address>String</ip_address>
  <description>String</description>
  <host_name>String</host_name>
  <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
  <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
  <address_version>IPV4</address_version>
  <address_version>IPV6</address_version>
  <address_version>MIXED</address_version>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
```


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```
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <to>String</to>
  <owning_system>String</owning_system>
  <uuid>String</uuid>
  <variable_id>Integer</variable_id>
  <associated_metadata>String</associated_metadata>
</address>
```

Sample JSON Output:

```
{
 "address" : {
   "addr_name" : "String",
   "name" : "String",
   "update_number" : "int",
   "edit_version" : "Integer",
   "address_refs" : [ ],
   "address_type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
   "ip_address" : "String",
   "description" : "String",
   "host_name" : "String",
   "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
   "address_version" : [ "IPV4", "IPV6", "MIXED" ],
   "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
   "id_perms" : {
     "created" : "String",
     "creator" : "String",
     "last_modified" : "String",
     "last-modified-by-user-name" : "String",
     "created-time" : "Date",
     "last-modified-time" : "Date"
   },
   "to" : [ "String" ],
   "owning_system" : "String",
   "uuid" : "String",
   "variable_id" : "Integer",
   "uri" : "String",
   "link" : "String",
   "domain-id" : "Integer",
   "associated_metadata" : "String"
 }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<address>
  <addr_name>String</addr_name>
  <name>String</name>
  <update_number>int</update_number>
  <edit_version>Integer</edit_version>
  <address_type>IPADDRESS</address_type>
  <address_type>DELETED_1</address_type>
  <address_type>GROUP</address_type>
  <address_type>RANGE</address_type>
  <address_type>NETWORK</address_type>
  <address_type>INTERNET</address_type>
  <address_type>WILDCARD</address_type>
```


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```
<address_type>DNS</address_type>
<address_type>POLYMORPHIC</address_type>
<address_type>ANY</address_type>
<address_type>ANY_IPV4</address_type>
<address_type>ANY_IPV6</address_type>
<address_type>ALL_IPV6</address_type>
<address_type>DYNAMIC_ADDRESS_GROUP</address_type>
<address_type>Z_TYPE_IMPORT</address_type>
<address_type>IPS_TYPE_IMPORT</address_type>
<address_type>FEED_TYPE</address_type>
<ip_address>String</ip_address>
<description>String</description>
<host_name>String</host_name>
<dnsaddress_type>IPV4_ONLY</dnsaddress_type>
<dnsaddress_type>IPV6_ONLY</dnsaddress_type>
<address_version>IPV4</address_version>
<address_version>IPV6</address_version>
<address_version>MIXED</address_version>
<definition_type>Hidden</definition_type>
<definition_type>Predefined</definition_type>
<definition_type>Custom</definition_type>
<definition_type>All</definition_type>
<id_perms>
  <created>String</created>
  <creator>String</creator>
  <last_modified>String</last_modified>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-time>Date</created-time>
  <last-modified-time>Date</last-modified-time>
</id_perms>
<to>String</to>
<owning_system>String</owning_system>
<uuid>String</uuid>
<variable_id>Integer</variable_id>
<uri>String</uri>
<link>String</link>
<domain-id>Integer</domain-id>
<associated_metadata>String</associated_metadata>
</address>
```

Delete Address (V5)

This request is used to delete a particular address.

URI	/api/juniper/sd/address-management/v5/address/{id}
HTTP method	DELETE
Content-Type	None

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Accept-Type	None
Access-Control	DeleteAddresses

Create Address (V5)

This request is used to create an address. If you are creating an address group, you must create a

URI	/api/juniper/sd/address-management/v5/address
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	createAddress

Sample JSON Input

```
{
  "address" : {
    "addr_name" : "String",
    "name" : "String",
    "update_number" : "int",
    "edit_version" : "Integer",
    "address_refs" : [ ],
    "address_type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
    "ip_address" : "String",
    "description" : "String",
    "host_name" : "String",
    "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
    "address_version" : [ "IPV4", "IPV6", "MIXED" ],
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "to" : [ "String" ],
```


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```
    "owning_system" : "String",
    "uuid" : "String",
    "variable_id" : "Integer",
    "associated_metadata" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<address>
  <addr_name>String</addr_name>
  <name>String</name>
  <update_number>int</update_number>
  <edit_version>Integer</edit_version>
  <address_type>IPADDRESS</address_type>
  <address_type>DELETED_1</address_type>
  <address_type>GROUP</address_type>
  <address_type>RANGE</address_type>
  <address_type>NETWORK</address_type>
  <address_type>INTERNET</address_type>
  <address_type>WILDCARD</address_type>
  <address_type>DNS</address_type>
  <address_type>POLYMORPHIC</address_type>
  <address_type>ANY</address_type>
  <address_type>ANY_IPV4</address_type>
  <address_type>ANY_IPV6</address_type>
  <address_type>ALL_IPV6</address_type>
  <address_type>DYNAMIC_ADDRESS_GROUP</address_type>
  <address_type>Z_TYPE_IMPORT</address_type>
  <address_type>IPS_TYPE_IMPORT</address_type>
  <address_type>FEED_TYPE</address_type>
  <ip_address>String</ip_address>
  <description>String</description>
  <host_name>String</host_name>
  <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
  <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
  <address_version>IPV4</address_version>
  <address_version>IPV6</address_version>
  <address_version>MIXED</address_version>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <to>String</to>
  <owning_system>String</owning_system>
  <uuid>String</uuid>
  <variable_id>Integer</variable_id>
  <associated_metadata>String</associated_metadata>
</address>
```


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Sample JSON Output:


```
{
  "address" : {
    "addr_name" : "String",
    "name" : "String",
    "update_number" : "int",
    "edit_version" : "Integer",
    "address_refs" : [ ],
    "address_type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
    "ip_address" : "String",
    "description" : "String",
    "host_name" : "String",
    "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
    "address_version" : [ "IPV4", "IPV6", "MIXED" ],
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "to" : [ "String" ],
    "owning_system" : "String",
    "uuid" : "String",
    "variable_id" : "Integer",
    "uri" : "String",
    "link" : "String",
    "domain-id" : "Integer",
    "associated_metadata" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<address>
  <addr_name>String</addr_name>
  <name>String</name>
  <update_number>int</update_number>
  <edit_version>Integer</edit_version>
  <address_type>IPADDRESS</address_type>
  <address_type>DELETED_1</address_type>
  <address_type>GROUP</address_type>
  <address_type>RANGE</address_type>
  <address_type>NETWORK</address_type>
  <address_type>INTERNET</address_type>
  <address_type>WILDCARD</address_type>
  <address_type>DNS</address_type>
  <address_type>POLYMORPHIC</address_type>
  <address_type>ANY</address_type>
  <address_type>ANY_IPV4</address_type>
  <address_type>ANY_IPV6</address_type>
  <address_type>ALL_IPV6</address_type>
  <address_type>DYNAMIC_ADDRESS_GROUP</address_type>
  <address_type>Z_TYPE_IMPORT</address_type>
  <address_type>IPS_TYPE_IMPORT</address_type>
  <address_type>FEED_TYPE</address_type>
  <ip_address>String</ip_address>
  <description>String</description>
  <host_name>String</host_name>
```


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```
  <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
  <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
  <address_version>IPV4</address_version>
  <address_version>IPV6</address_version>
  <address_version>MIXED</address_version>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <to>String</to>
  <owning_system>String</owning_system>
  <uuid>String</uuid>
  <variable_id>Integer</variable_id>
  <uri>String</uri>
  <link>String</link>
  <domain-id>Integer</domain-id>
  <associated_metadata>String</associated_metadata>
</address>
```

Retrieve Detailed Address Objects (V5)

Fetches a list of all address objects with comprehensive details from the system.

URI	/api/juniper/sd/address-management/v5/detailed_addresses
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageAddress

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Sample JSON Output:


```
{
  "output" : {
    "value" : [ {
      "addr_name" : "String",
      "name" : "String",
      "update_number" : "int",
      "edit_version" : "Integer",
      "address_refs" : [ ],
      "address_type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
      "ip_address" : "String",
      "description" : "String",
      "host_name" : "String",
      "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
      "address_version" : [ "IPV4", "IPV6", "MIXED" ],
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String",
        "last-modified-by-user-name" : "String",
        "created-time" : "Date",
        "last-modified-time" : "Date"
      },
      "to" : [ "String" ],
      "owning_system" : "String",
      "uuid" : "String",
      "variable_id" : "Integer",
      "uri" : "String",
      "link" : "String",
      "domain-id" : "Integer",
      "associated_metadata" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<output>
  <value>
    <addr_name>String</addr_name>
    <name>String</name>
    <update_number>int</update_number>
    <edit_version>Integer</edit_version>
    <address_type>IPADDRESS</address_type>
    <address_type>DELETED_1</address_type>
    <address_type>GROUP</address_type>
    <address_type>RANGE</address_type>
    <address_type>NETWORK</address_type>
    <address_type>INTERNET</address_type>
    <address_type>WILDCARD</address_type>
    <address_type>DNS</address_type>
    <address_type>POLYMORPHIC</address_type>
    <address_type>ANY</address_type>
    <address_type>ANY_IPV4</address_type>
    <address_type>ANY_IPV6</address_type>
    <address_type>ALL_IPV6</address_type>
    <address_type>DYNAMIC_ADDRESS_GROUP</address_type>
    <address_type>Z_TYPE_IMPORT</address_type>
```


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```
    <address_type>IPS_TYPE_IMPORT</address_type>
    <address_type>FEED_TYPE</address_type>
    <ip_address>String</ip_address>
    <description>String</description>
    <host_name>String</host_name>
    <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
    <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
    <address_version>IPV4</address_version>
    <address_version>IPV6</address_version>
    <address_version>MIXED</address_version>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <to>String</to>
    <owning_system>String</owning_system>
    <uuid>String</uuid>
    <variable_id>Integer</variable_id>
    <uri>String</uri>
    <link>String</link>
    <domain-id>Integer</domain-id>
    <associated_metadata>String</associated_metadata>
  </value>
  <uri>String</uri>
  <totalSize>int</totalSize>
</output>
```


Retrieve Addresses by Metadata Expression

Fetches address objects that match a specified metadata expression.

URI	/api/juniper/sd/address-management/v5/addresses/metadataExpression?expression=String
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml

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Sample JSON Output:


```
{
  "output" : {
    "value" : [ {
      "addr_name" : "String",
      "name" : "String",
      "update_number" : "int",
      "edit_version" : "Integer",
      "address_refs" : [ ],
      "address_type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
      "ip_address" : "String",
      "description" : "String",
      "host_name" : "String",
      "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
      "address_version" : [ "IPV4", "IPV6", "MIXED" ],
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String",
        "last-modified-by-user-name" : "String",
        "created-time" : "Date",
        "last-modified-time" : "Date"
      },
      "to" : [ "String" ],
      "owning_system" : "String",
      "uuid" : "String",
      "variable_id" : "Integer",
      "uri" : "String",
      "link" : "String",
      "domain-id" : "Integer",
      "associated_metadata" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<output>
  <value>
    <addr_name>String</addr_name>
    <name>String</name>
    <update_number>int</update_number>
    <edit_version>Integer</edit_version>
    <address_type>IPADDRESS</address_type>
    <address_type>DELETED_1</address_type>
    <address_type>GROUP</address_type>
    <address_type>RANGE</address_type>
    <address_type>NETWORK</address_type>
    <address_type>INTERNET</address_type>
    <address_type>WILDCARD</address_type>
    <address_type>DNS</address_type>
    <address_type>POLYMORPHIC</address_type>
    <address_type>ANY</address_type>
```


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```
    <address_type>ANY_IPV4</address_type>
    <address_type>ANY_IPV6</address_type>
    <address_type>ALL_IPV6</address_type>
    <address_type>DYNAMIC_ADDRESS_GROUP</address_type>
    <address_type>Z_TYPE_IMPORT</address_type>
    <address_type>IPS_TYPE_IMPORT</address_type>
    <address_type>FEED_TYPE</address_type>
    <ip_address>String</ip_address>
    <description>String</description>
    <host_name>String</host_name>
    <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
    <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
    <address_version>IPV4</address_version>
    <address_version>IPV6</address_version>
    <address_version>MIXED</address_version>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <to>String</to>
    <owning_system>String</owning_system>
    <uuid>String</uuid>
    <variable_id>Integer</variable_id>
    <uri>String</uri>
    <link>String</link>
    <domain-id>Integer</domain-id>
    <associated_metadata>String</associated_metadata>
  </value>
  <uri>String</uri>
  <totalSize>int</totalSize>
</output>
```


Retrieve a Single Address Object (V5)

Fetches the complete details of a specific address object by its ID.

URI	/api/juniper/sd/address-management/v5/address/{id}
HTTP method	GET
Content-Type	None

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Accept-Type	application/json application/xml
Access-Control	manageAddress

Sample JSON Output:


```
{
  "address" : {
    "addr_name" : "String",
    "name" : "String",
    "update_number" : "int",
    "edit_version" : "Integer",
    "address_refs" : [ ],
    "address_type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
    "ip_address" : "String",
    "description" : "String",
    "host_name" : "String",
    "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
    "address_version" : [ "IPV4", "IPV6", "MIXED" ],
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "to" : [ "String" ],
    "owning_system" : "String",
    "uuid" : "String",
    "variable_id" : "Integer",
    "uri" : "String",
    "link" : "String",
    "domain-id" : "Integer",
    "associated_metadata" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<address>
  <addr_name>String</addr_name>
  <name>String</name>
  <update_number>int</update_number>
  <edit_version>Integer</edit_version>
  <address_type>IPADDRESS</address_type>
  <address_type>DELETED_1</address_type>
  <address_type>GROUP</address_type>
  <address_type>RANGE</address_type>
  <address_type>NETWORK</address_type>
  <address_type>INTERNET</address_type>
  <address_type>WILDCARD</address_type>
  <address_type>DNS</address_type>
  <address_type>POLYMORPHIC</address_type>
  <address_type>ANY</address_type>
  <address_type>ANY_IPV4</address_type>
```


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```
<address_type>ANY_IPV6</address_type>
<address_type>ALL_IPV6</address_type>
<address_type>DYNAMIC_ADDRESS_GROUP</address_type>
<address_type>Z_TYPE_IMPORT</address_type>
<address_type>IPS_TYPE_IMPORT</address_type>
<address_type>FEED_TYPE</address_type>
<ip_address>String</ip_address>
<description>String</description>
<host_name>String</host_name>
<dnsaddress_type>IPV4_ONLY</dnsaddress_type>
<dnsaddress_type>IPV6_ONLY</dnsaddress_type>
<address_version>IPV4</address_version>
<address_version>IPV6</address_version>
<address_version>MIXED</address_version>
<definition_type>Hidden</definition_type>
<definition_type>Predefined</definition_type>
<definition_type>Custom</definition_type>
<definition_type>All</definition_type>
<id_perms>
  <created>String</created>
  <creator>String</creator>
  <last_modified>String</last_modified>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-time>Date</created-time>
  <last-modified-time>Date</last-modified-time>
</id_perms>
<to>String</to>
<owning_system>String</owning_system>
<uuid>String</uuid>
<variable_id>Integer</variable_id>
<uri>String</uri>
<link>String</link>
<domain-id>Integer</domain-id>
<associated_metadata>String</associated_metadata>
</address>
```

Delete Address Objects

Deletes one or more existing address objects from the system.

URI	/api/juniper/sd/address-management/v5/address/delete
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	None

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Access-Control	DeleteAddresses

Sample JSON Input

```
{
  "id-list" : {
    "ids" : [ "String" ],
    "total" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>String</ids>
   <total>int</total>
</id-list>
```

Get All Addresses

This request is used to collect all the address objects that are configured in Security Director.

URI	/api/juniper/sd/address-management/addresses?includeDynamicAddresses=boolean&includeMembers=boolean
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.address-management.address-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.address-management.address-refs+json;version=1;q=0.01
Access-Control	manageAddress

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Sample JSON Output:


```
{
  "addresses" : {
    "address" : [ {
      "name" : "String",
      "hash-key" : "String",
      "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
      "ip-address" : "String",
      "description" : "String",
      "host-name" : "String",
      "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "global" : "String",
      "id" : "Integer",
      "uuid" : "String",
      "uri" : "String",
      "link" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "owning-system" : "String",
      "members" : {
        "uri" : "String",
        "member" : [ {
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "host-name" : "String",
          "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
          "description" : "String",
          "ip-address" : "String",
          "id" : "Integer",
          "domain-id" : "Integer",
          "uri" : "String",
          "link" : "String"
        } ]
      }
    } ],
    "uri" : "String",
    "totalSize" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<addresses>
  <address>
    <name>String</name>
    <hash-key>String</hash-key>
    <address-type>IPADDRESS</address-type>
    <address-type>DELETED_1</address-type>
    <address-type>GROUP</address-type>
    <address-type>RANGE</address-type>
    <address-type>NETWORK</address-type>
    <address-type>INTERNET</address-type>
    <address-type>WILDCARD</address-type>
    <address-type>DNS</address-type>
    <address-type>POLYMORPHIC</address-type>
    <address-type>ANY</address-type>
    <address-type>ANY_IPV4</address-type>
    <address-type>ANY_IPV6</address-type>
```


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```
    <address-type>ALL_IPV6</address-type>
    <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
    <address-type>Z_TYPE_IMPORT</address-type>
    <address-type>IPS_TYPE_IMPORT</address-type>
    <address-type>FEED_TYPE</address-type>
    <ip-address>String</ip-address>
    <description>String</description>
    <host-name>String</host-name>
    <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
    <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <global>String</global>
    <id>Integer</id>
    <uuid>String</uuid>
    <uri>String</uri>
    <link>String</link>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <owning-system>String</owning-system>
    <members>
      <uri>String</uri>
      <member>
        <name>String</name>
        <address-type>IPADDRESS</address-type>
        <address-type>DELETED_1</address-type>
        <address-type>GROUP</address-type>
        <address-type>RANGE</address-type>
        <address-type>NETWORK</address-type>
        <address-type>INTERNET</address-type>
        <address-type>WILDCARD</address-type>
        <address-type>DNS</address-type>
        <address-type>POLYMORPHIC</address-type>
        <address-type>ANY</address-type>
        <address-type>ANY_IPV4</address-type>
        <address-type>ANY_IPV6</address-type>
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
        <host-name>String</host-name>
        <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
        <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
        <description>String</description>
        <ip-address>String</ip-address>
        <id>Integer</id>
        <domain-id>Integer</domain-id>
        <uri>String</uri>
        <link>String</link>
      </member>
    </members>
  </address>
  <uri>String</uri>
  <totalSize>int</totalSize>
</addresses>
```

Modify Address

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This request is used to modify an address. Because this is a full replace and if it is an address, group, all the member addresses must be part of this address group., group, all the member addresses must be part of this address group.

URI	/api/juniper/sd/address-management/addresses/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.address-management.address+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.address-management.address+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.address-management.address+xml;version=1;q=0.01 application/vnd.juniper.sd.address-management.address+json;version=1;q=0.01
Access-Control	ModifyAddress

Sample JSON Input

```
{
  "address" : {
    "name" : "String",
    "edit-version" : "Integer",
    "members" : {
      "member" : [ {
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "host-name" : "String",
        "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
        "description" : "String",
        "ip-address" : "String",
        "id" : "Integer"
      } ]
    },
    "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
    "ip-address" : "String",
    "description" : "String",
    "host-name" : "String",
    "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
    "zone" : "String",
    "address-version" : [ "IPV4", "IPV6", "MIXED" ],
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id" : "Integer"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<address>
  <name>String</name>
  <edit-version>Integer</edit-version>
  <members>
    <member>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <host-name>String</host-name>
      <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
      <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
      <description>String</description>
      <ip-address>String</ip-address>
      <id>Integer</id>
    </member>
  </members>
  <address-type>IPADDRESS</address-type>
  <address-type>DELETED_1</address-type>
  <address-type>GROUP</address-type>
  <address-type>RANGE</address-type>
  <address-type>NETWORK</address-type>
  <address-type>INTERNET</address-type>
  <address-type>WILDCARD</address-type>
  <address-type>DNS</address-type>
  <address-type>POLYMORPHIC</address-type>
  <address-type>ANY</address-type>
  <address-type>ANY_IPV4</address-type>
  <address-type>ANY_IPV6</address-type>
  <address-type>ALL_IPV6</address-type>
  <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
  <address-type>Z_TYPE_IMPORT</address-type>
  <address-type>IPS_TYPE_IMPORT</address-type>
  <address-type>FEED_TYPE</address-type>
  <ip-address>String</ip-address>
  <description>String</description>
  <host-name>String</host-name>
  <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
  <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
  <zone>String</zone>
  <address-version>IPV4</address-version>
  <address-version>IPV6</address-version>
  <address-version>MIXED</address-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
```


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```
  <id>Integer</id>
</address>
```

Sample JSON Output:


```
{
  "address" : {
    "name" : "String",
    "edit-version" : "Integer",
    "members" : {
      "member" : [ {
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "host-name" : "String",
        "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
        "description" : "String",
        "ip-address" : "String",
        "id" : "Integer",
        "domain-id" : "Integer",
        "uri" : "String",
        "link" : "String"
      } ],
      "uri" : "String"
    },
    "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
    "ip-address" : "String",
    "description" : "String",
    "host-name" : "String",
    "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
    "zone" : "String",
    "address-version" : [ "IPV4", "IPV6", "MIXED" ],
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "created-time" : "Date",
    "last-modified-time" : "Date",
    "owning-system" : "String",
    "id" : "Integer",
    "uri" : "String",
    "link" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<address>
  <name>String</name>
  <edit-version>Integer</edit-version>
  <members>
    <member>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <host-name>String</host-name>
      <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
      <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
      <description>String</description>
      <ip-address>String</ip-address>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
      <link>String</link>
    </member>
    <uri>String</uri>
  </members>
  <address-type>IPADDRESS</address-type>
  <address-type>DELETED_1</address-type>
  <address-type>GROUP</address-type>
  <address-type>RANGE</address-type>
  <address-type>NETWORK</address-type>
  <address-type>INTERNET</address-type>
  <address-type>WILDCARD</address-type>
  <address-type>DNS</address-type>
  <address-type>POLYMORPHIC</address-type>
  <address-type>ANY</address-type>
  <address-type>ANY_IPV4</address-type>
  <address-type>ANY_IPV6</address-type>
  <address-type>ALL_IPV6</address-type>
  <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
  <address-type>Z_TYPE_IMPORT</address-type>
  <address-type>IPS_TYPE_IMPORT</address-type>
  <address-type>FEED_TYPE</address-type>
  <ip-address>String</ip-address>
  <description>String</description>
  <host-name>String</host-name>
  <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
  <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
  <zone>String</zone>
  <address-version>IPV4</address-version>
  <address-version>IPV6</address-version>
  <address-version>MIXED</address-version>
```


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```
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
    <owning-system>String</owning-system>
    <id>Integer</id>
    <uri>String</uri>
    <link>String</link>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
</address>
```

Delete Address

This request is used to delete a particular address.

URI	/api/juniper/sd/address-management/addresses/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	DeleteAddresses

Create Address

This request is used to create an address. If you are creating an address group, you must create a, list of member addresses, list of member addresses

URI	/api/juniper/sd/address-management/addresses
HTTP method	POST

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Content-Type	application/vnd.juniper.sd.address-management.address+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.address-management.address+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.address-management.address+xml;version=1;q=0.01 application/vnd.juniper.sd.address-management.address+json;version=1;q=0.01
Access-Control	createAddress

Sample JSON Input

```
{
  "address" : {
    "name" : "String",
    "edit-version" : "Integer",
    "members" : {
      "member" : [ {
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "host-name" : "String",
        "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
        "description" : "String",
        "ip-address" : "String",
        "id" : "Integer"
      } ]
    },
    "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
    "ip-address" : "String",
    "description" : "String",
    "host-name" : "String",
    "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
    "zone" : "String",
    "address-version" : [ "IPV4", "IPV6", "MIXED" ],
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id" : "Integer"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<address>
  <name>String</name>
  <edit-version>Integer</edit-version>
  <members>
    <member>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
```


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```
        <address-type>WILDCARD</address-type>
        <address-type>DNS</address-type>
        <address-type>POLYMORPHIC</address-type>
        <address-type>ANY</address-type>
        <address-type>ANY_IPV4</address-type>
        <address-type>ANY_IPV6</address-type>
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
        <host-name>String</host-name>
        <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
        <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
        <description>String</description>
        <ip-address>String</ip-address>
        <id>Integer</id>
      </member>
    </members>
    <address-type>IPADDRESS</address-type>
    <address-type>DELETED_1</address-type>
    <address-type>GROUP</address-type>
    <address-type>RANGE</address-type>
    <address-type>NETWORK</address-type>
    <address-type>INTERNET</address-type>
    <address-type>WILDCARD</address-type>
    <address-type>DNS</address-type>
    <address-type>POLYMORPHIC</address-type>
    <address-type>ANY</address-type>
    <address-type>ANY_IPV4</address-type>
    <address-type>ANY_IPV6</address-type>
    <address-type>ALL_IPV6</address-type>
    <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
    <address-type>Z_TYPE_IMPORT</address-type>
    <address-type>IPS_TYPE_IMPORT</address-type>
    <address-type>FEED_TYPE</address-type>
    <ip-address>String</ip-address>
    <description>String</description>
    <host-name>String</host-name>
    <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
    <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
    <zone>String</zone>
    <address-version>IPV4</address-version>
    <address-version>IPV6</address-version>
    <address-version>MIXED</address-version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <id>Integer</id>
</address>
```

Sample JSON Output:

```
{
  "address" : {
    "name" : "String",
    "edit-version" : "Integer",
    "members" : {
      "member" : [ {
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "host-name" : "String",
        "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
```


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```
        "description" : "String",
        "ip-address" : "String",
        "id" : "Integer",
        "domain-id" : "Integer",
        "uri" : "String",
        "link" : "String"
       } ],
       "uri" : "String"
     },
     "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
     "ip-address" : "String",
     "description" : "String",
     "host-name" : "String",
     "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
     "zone" : "String",
     "address-version" : [ "IPV4", "IPV6", "MIXED" ],
     "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
     "created-by-user-name" : "String",
     "last-modified-by-user-name" : "String",
     "created-time" : "Date",
     "last-modified-time" : "Date",
     "owning-system" : "String",
     "id" : "Integer",
     "uri" : "String",
     "link" : "String",
     "domain-id" : "Integer",
     "domain-name" : "String"
   }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<address>
  <name>String</name>
  <edit-version>Integer</edit-version>
  <members>
    <member>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <host-name>String</host-name>
      <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
      <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
      <description>String</description>
      <ip-address>String</ip-address>
      <id>Integer</id>
```


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```
        <domain-id>Integer</domain-id>
        <uri>String</uri>
        <link>String</link>
      </member>
      <uri>String</uri>
    </members>
    <address-type>IPADDRESS</address-type>
    <address-type>DELETED_1</address-type>
    <address-type>GROUP</address-type>
    <address-type>RANGE</address-type>
    <address-type>NETWORK</address-type>
    <address-type>INTERNET</address-type>
    <address-type>WILDCARD</address-type>
    <address-type>DNS</address-type>
    <address-type>POLYMORPHIC</address-type>
    <address-type>ANY</address-type>
    <address-type>ANY_IPV4</address-type>
    <address-type>ANY_IPV6</address-type>
    <address-type>ALL_IPV6</address-type>
    <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
    <address-type>Z_TYPE_IMPORT</address-type>
    <address-type>IPS_TYPE_IMPORT</address-type>
    <address-type>FEED_TYPE</address-type>
    <ip-address>String</ip-address>
    <description>String</description>
    <host-name>String</host-name>
    <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
    <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
    <zone>String</zone>
    <address-version>IPV4</address-version>
    <address-version>IPV6</address-version>
    <address-version>MIXED</address-version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
    <owning-system>String</owning-system>
    <id>Integer</id>
    <uri>String</uri>
    <link>String</link>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
  </address>
```


Partially Update Address Object

Applies a partial update to an existing address object identified by its ID.

URI	/api/juniper/sd/address-management/addresses/{id}
HTTP method	PATCH

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Content-Type	application/vnd.juniper.sd.address-management.address_patch+xml;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.address-management.address+xml;version=1;q=0.01 application/vnd.juniper.sd.address-management.address+json;version=1;q=0.01
Access-Control	ModifyAddress

Sample JSON Input


```
{
  "address" : {
    "name" : "String",
    "edit-version" : "Integer",
    "members" : {
      "member" : [ {
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "host-name" : "String",
        "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
        "description" : "String",
        "ip-address" : "String",
        "id" : "Integer"
      } ]
    },
    "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
    "ip-address" : "String",
    "description" : "String",
    "host-name" : "String",
    "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
    "zone" : "String",
    "address-version" : [ "IPV4", "IPV6", "MIXED" ],
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id" : "Integer"
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<address>
  <name>String</name>
  <edit-version>Integer</edit-version>
  <members>
    <member>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
```


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```
        <address-type>POLYMORPHIC</address-type>
        <address-type>ANY</address-type>
        <address-type>ANY_IPV4</address-type>
        <address-type>ANY_IPV6</address-type>
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
        <host-name>String</host-name>
        <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
        <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
        <description>String</description>
        <ip-address>String</ip-address>
        <id>Integer</id>
      </member>
    </members>
    <address-type>IPADDRESS</address-type>
    <address-type>DELETED_1</address-type>
    <address-type>GROUP</address-type>
    <address-type>RANGE</address-type>
    <address-type>NETWORK</address-type>
    <address-type>INTERNET</address-type>
    <address-type>WILDCARD</address-type>
    <address-type>DNS</address-type>
    <address-type>POLYMORPHIC</address-type>
    <address-type>ANY</address-type>
    <address-type>ANY_IPV4</address-type>
    <address-type>ANY_IPV6</address-type>
    <address-type>ALL_IPV6</address-type>
    <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
    <address-type>Z_TYPE_IMPORT</address-type>
    <address-type>IPS_TYPE_IMPORT</address-type>
    <address-type>FEED_TYPE</address-type>
    <ip-address>String</ip-address>
    <description>String</description>
    <host-name>String</host-name>
    <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
    <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
    <zone>String</zone>
    <address-version>IPV4</address-version>
    <address-version>IPV6</address-version>
    <address-version>MIXED</address-version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <id>Integer</id>
</address>
```

Sample JSON Output:

```
{
  "address" : {
    "name" : "String",
    "edit-version" : "Integer",
    "members" : {
      "member" : [ {
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "host-name" : "String",
        "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
        "description" : "String",
```


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```
        "ip-address" : "String",
        "id" : "Integer",
        "domain-id" : "Integer",
        "uri" : "String",
        "link" : "String"
       } ],
       "uri" : "String"
     },
     "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
     "ip-address" : "String",
     "description" : "String",
     "host-name" : "String",
     "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
     "zone" : "String",
     "address-version" : [ "IPV4", "IPV6", "MIXED" ],
     "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
     "created-by-user-name" : "String",
     "last-modified-by-user-name" : "String",
     "created-time" : "Date",
     "last-modified-time" : "Date",
     "owning-system" : "String",
     "id" : "Integer",
     "uri" : "String",
     "link" : "String",
     "domain-id" : "Integer",
     "domain-name" : "String"
   }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<address>
  <name>String</name>
  <edit-version>Integer</edit-version>
  <members>
    <member>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <host-name>String</host-name>
      <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
      <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
      <description>String</description>
      <ip-address>String</ip-address>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
```


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```
      <uri>String</uri>
      <link>String</link>
    </member>
    <uri>String</uri>
  </members>
  <address-type>IPADDRESS</address-type>
  <address-type>DELETED_1</address-type>
  <address-type>GROUP</address-type>
  <address-type>RANGE</address-type>
  <address-type>NETWORK</address-type>
  <address-type>INTERNET</address-type>
  <address-type>WILDCARD</address-type>
  <address-type>DNS</address-type>
  <address-type>POLYMORPHIC</address-type>
  <address-type>ANY</address-type>
  <address-type>ANY_IPV4</address-type>
  <address-type>ANY_IPV6</address-type>
  <address-type>ALL_IPV6</address-type>
  <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
  <address-type>Z_TYPE_IMPORT</address-type>
  <address-type>IPS_TYPE_IMPORT</address-type>
  <address-type>FEED_TYPE</address-type>
  <ip-address>String</ip-address>
  <description>String</description>
  <host-name>String</host-name>
  <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
  <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
  <zone>String</zone>
  <address-version>IPV4</address-version>
  <address-version>IPV6</address-version>
  <address-version>MIXED</address-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-time>Date</created-time>
  <last-modified-time>Date</last-modified-time>
  <owning-system>String</owning-system>
  <id>Integer</id>
  <uri>String</uri>
  <link>String</link>
  <domain-id>Integer</domain-id>
  <domain-name>String</domain-name>
</address>
```


Get Address by ID

This API lists detailed information of the address mentioned in the address ID field. If it is an, address-group, the API returns a list of member addresses part of this address group., address-group, the API returns a list of member addresses part of this address group.

URI	/api/juniper/sd/address-management/addresses/{id}

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HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.address-management.address+xml;version=1;q=0.01 application/vnd.juniper.sd.address-management.address+json;version=1;q=0.01
Access-Control	manageAddress

Sample JSON Output:


```
{
  "address" : {
    "name" : "String",
    "edit-version" : "Integer",
    "members" : {
      "member" : [ {
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "host-name" : "String",
        "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
        "description" : "String",
        "ip-address" : "String",
        "id" : "Integer",
        "domain-id" : "Integer",
        "uri" : "String",
        "link" : "String"
      } ],
      "uri" : "String"
    },
    "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
    "ip-address" : "String",
    "description" : "String",
    "host-name" : "String",
    "dnsaddress_type" : [ "IPV4_ONLY", "IPV6_ONLY" ],
    "zone" : "String",
    "address-version" : [ "IPV4", "IPV6", "MIXED" ],
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "created-time" : "Date",
    "last-modified-time" : "Date",
    "owning-system" : "String",
    "id" : "Integer",
    "uri" : "String",
    "link" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String"
  }
```


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}

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<address>
  <name>String</name>
  <edit-version>Integer</edit-version>
  <members>
    <member>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <host-name>String</host-name>
      <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
      <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
      <description>String</description>
      <ip-address>String</ip-address>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
      <link>String</link>
    </member>
    <uri>String</uri>
  </members>
  <address-type>IPADDRESS</address-type>
  <address-type>DELETED_1</address-type>
  <address-type>GROUP</address-type>
  <address-type>RANGE</address-type>
  <address-type>NETWORK</address-type>
  <address-type>INTERNET</address-type>
  <address-type>WILDCARD</address-type>
  <address-type>DNS</address-type>
  <address-type>POLYMORPHIC</address-type>
  <address-type>ANY</address-type>
  <address-type>ANY_IPV4</address-type>
  <address-type>ANY_IPV6</address-type>
  <address-type>ALL_IPV6</address-type>
  <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
  <address-type>Z_TYPE_IMPORT</address-type>
  <address-type>IPS_TYPE_IMPORT</address-type>
  <address-type>FEED_TYPE</address-type>
```


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```
  <ip-address>String</ip-address>
  <description>String</description>
  <host-name>String</host-name>
  <dnsaddress_type>IPV4_ONLY</dnsaddress_type>
  <dnsaddress_type>IPV6_ONLY</dnsaddress_type>
  <zone>String</zone>
  <address-version>IPV4</address-version>
  <address-version>IPV6</address-version>
  <address-version>MIXED</address-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-time>Date</created-time>
  <last-modified-time>Date</last-modified-time>
  <owning-system>String</owning-system>
  <id>Integer</id>
  <uri>String</uri>
  <link>String</link>
  <domain-id>Integer</domain-id>
  <domain-name>String</domain-name>
</address>
```

Delete Address

This request is used to delete a particular address.

URI	/api/juniper/sd/address-management/addresses/delete
HTTP method	POST
Content-Type	application/vnd.juniper.sd.bulk-delete+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.bulk-delete+json;version=1;charset=UTF-8
Accept-Type	None
Access-Control	DeleteAddresses

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Sample JSON Input

```
{
  "id-list" : {
    "ids" : [ "Integer" ],
    "total" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
   <total>int</total>
</id-list>
```


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CHAPTER 8

Address Pool Management Restful WebServices

The following opertions can be performed using Secuirty Director Address Pool Management Restful WebServices

Create AddressPool

URI	/api/juniper/sd/address-pool-management/address-pools
HTTP method	POST
Content-Type	application/vnd.sd.address-pool-management.address-pool+xml;version=1; application/vnd.sd.address-pool-management.address-pool+json;version=1;
Accept-Type	application/vnd.sd.address-pool-management.address-pool+xml;version=1;q=0.01 application/vnd.sd.address-pool-management.address-pool+json;version=1;q=0.01
Access-Control	createAccessProfile

Sample JSON Input

```
{
  "address-pool" : {
    "edit-version" : "Integer",
    "version" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "network" : "String",
    "primary-dns" : "String",
    "secondary-dns" : "String",
    "primary-wins" : "String",
    "secondary-wins" : "String",
    "address-pool-ranges" : {
      "address-pool-range" : [ {
        "name" : "String",
```


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```
      "lower-limit" : "String",
      "high-limit" : "String"
    } ]
   }
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<address-pool>
  <edit-version>Integer</edit-version>
  <version>Integer</version>
  <id>Integer</id>
  <name>String</name>
  <network>String</network>
  <primary-dns>String</primary-dns>
  <secondary-dns>String</secondary-dns>
  <primary-wins>String</primary-wins>
  <secondary-wins>String</secondary-wins>
  <address-pool-ranges>
    <address-pool-range>
      <name>String</name>
      <lower-limit>String</lower-limit>
      <high-limit>String</high-limit>
    </address-pool-range>
  </address-pool-ranges>
</address-pool>
```

Sample JSON Output:

```
{
  "address-pool" : {
    "edit-version" : "Integer",
    "created-by-user-name" : "String",
    "global" : "String",
    "domain-name" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "last-modified-by-user-name" : "String",
    "domain-id" : "Integer",
    "uri" : "String",
    "link" : "String",
    "name" : "String",
    "network" : "String",
    "primary-dns" : "String",
    "secondary-dns" : "String",
    "primary-wins" : "String",
    "secondary-wins" : "String",
    "address-pool-ranges" : {
      "address-pool-range" : [ {
        "name" : "String",
        "lower-limit" : "String",
        "high-limit" : "String"
      } ],
      "uri" : "String"
    }
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<address-pool>
  <edit-version>Integer</edit-version>
  <created-by-user-name>String</created-by-user-name>
  <global>String</global>
  <domain-name>String</domain-name>
  <version>Integer</version>
  <id>Integer</id>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-id>Integer</domain-id>
  <uri>String</uri>
  <link>String</link>
  <name>String</name>
  <network>String</network>
  <primary-dns>String</primary-dns>
  <secondary-dns>String</secondary-dns>
  <primary-wins>String</primary-wins>
  <secondary-wins>String</secondary-wins>
  <address-pool-ranges>
    <address-pool-range>
      <name>String</name>
      <lower-limit>String</lower-limit>
      <high-limit>String</high-limit>
    </address-pool-range>
    <uri>String</uri>
  </address-pool-ranges>
</address-pool>
```

Modify AddressPool

URI	/api/juniper/sd/address-pool-management/address-pools/{id}
HTTP method	PUT
Content-Type	application/vnd.sd.address-pool-management.address-pool+xml;version=1;charset=UTF-8 application/vnd.sd.address-pool-management.address-pool+json;version=1;
Accept-Type	application/vnd.sd.address-pool-management.address-pool+xml;version=1;q=0.01 application/vnd.sd.address-pool-management.address-pool+json;version=1;q=0.01
Access-Control	modifyAccessProfile

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Sample JSON Input

```
{
  "address-pool" : {
    "edit-version" : "Integer",
    "version" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "network" : "String",
    "primary-dns" : "String",
    "secondary-dns" : "String",
    "primary-wins" : "String",
    "secondary-wins" : "String",
    "address-pool-ranges" : {
      "address-pool-range" : [ {
        "name" : "String",
        "lower-limit" : "String",
        "high-limit" : "String"
      } ]
    }
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<address-pool>
   <edit-version>Integer</edit-version>
   <version>Integer</version>
   <id>Integer</id>
   <name>String</name>
   <network>String</network>
   <primary-dns>String</primary-dns>
   <secondary-dns>String</secondary-dns>
   <primary-wins>String</primary-wins>
   <secondary-wins>String</secondary-wins>
   <address-pool-ranges>
      <address-pool-range>
         <name>String</name>
         <lower-limit>String</lower-limit>
         <high-limit>String</high-limit>
      </address-pool-range>
   </address-pool-ranges>
</address-pool>
```

Sample JSON Output:

```
{
  "address-pool" : {
    "edit-version" : "Integer",
    "created-by-user-name" : "String",
    "global" : "String",
    "domain-name" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "last-modified-by-user-name" : "String",
    "domain-id" : "Integer",
    "uri" : "String",
    "link" : "String",
    "name" : "String",
    "network" : "String",
    "primary-dns" : "String",
    "secondary-dns" : "String",
    "primary-wins" : "String",
    "secondary-wins" : "String",
    "address-pool-ranges" : {
      "address-pool-range" : [ {
        "name" : "String",
```


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```
      "lower-limit" : "String",
      "high-limit" : "String"
    } ],
    "uri" : "String"
  }
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<address-pool>
  <edit-version>Integer</edit-version>
  <created-by-user-name>String</created-by-user-name>
  <global>String</global>
  <domain-name>String</domain-name>
  <version>Integer</version>
  <id>Integer</id>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-id>Integer</domain-id>
  <uri>String</uri>
  <link>String</link>
  <name>String</name>
  <network>String</network>
  <primary-dns>String</primary-dns>
  <secondary-dns>String</secondary-dns>
  <primary-wins>String</primary-wins>
  <secondary-wins>String</secondary-wins>
  <address-pool-ranges>
    <address-pool-range>
      <name>String</name>
      <lower-limit>String</lower-limit>
      <high-limit>String</high-limit>
    </address-pool-range>
    <uri>String</uri>
  </address-pool-ranges>
</address-pool>
```


Get AddressPool by Id

URI	/api/juniper/sd/address-pool-management/address-pools/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.sd.address-pool-management.address-pool+xml;version=1;q=0.01

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	application/vnd.sd.address-pool-management.address-pool+json;version=1;q=0.01
Access-Control	manageAccessProfile

Sample JSON Output:


```
{
  "address-pool" : {
    "edit-version" : "Integer",
    "created-by-user-name" : "String",
    "global" : "String",
    "domain-name" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "last-modified-by-user-name" : "String",
    "domain-id" : "Integer",
    "uri" : "String",
    "link" : "String",
    "name" : "String",
    "network" : "String",
    "primary-dns" : "String",
    "secondary-dns" : "String",
    "primary-wins" : "String",
    "secondary-wins" : "String",
    "address-pool-ranges" : {
      "address-pool-range" : [ {
        "name" : "String",
        "lower-limit" : "String",
        "high-limit" : "String"
      } ],
      "uri" : "String"
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<address-pool>
  <edit-version>Integer</edit-version>
  <created-by-user-name>String</created-by-user-name>
  <global>String</global>
  <domain-name>String</domain-name>
  <version>Integer</version>
  <id>Integer</id>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-id>Integer</domain-id>
  <uri>String</uri>
  <link>String</link>
  <name>String</name>
  <network>String</network>
  <primary-dns>String</primary-dns>
  <secondary-dns>String</secondary-dns>
  <primary-wins>String</primary-wins>
  <secondary-wins>String</secondary-wins>
  <address-pool-ranges>
    <address-pool-range>
      <name>String</name>
      <lower-limit>String</lower-limit>
      <high-limit>String</high-limit>
```


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```
    </address-pool-range>
    <uri>String</uri>
  </address-pool-ranges>
</address-pool>
```

Get AddressPools

URI	/api/juniper/sd/address-pool-management/address-pools
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.sd.address-pool-management.address-pools+xml;version=1;q=0.01 application/vnd.sd.address-pool-management.address-pools+json;version=1;q=0.01
Access-Control	manageAccessProfile

Sample JSON Output:


```
{
  "address-pools" : {
    "address-pool" : [ {
      "edit-version" : "Integer",
      "created-by-user-name" : "String",
      "global" : "String",
      "domain-name" : "String",
      "version" : "Integer",
      "id" : "Integer",
      "last-modified-by-user-name" : "String",
      "domain-id" : "Integer",
      "uri" : "String",
      "link" : "String",
      "name" : "String",
      "network" : "String",
      "primary-dns" : "String",
      "secondary-dns" : "String",
      "primary-wins" : "String",
      "secondary-wins" : "String",
```


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```
    "address-pool-ranges" : {
      "address-pool-range" : [ {
        "name" : "String",
        "lower-limit" : "String",
        "high-limit" : "String"
      } ],
      "uri" : "String"
    }
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<address-pools>
  <address-pool>
    <edit-version>Integer</edit-version>
    <created-by-user-name>String</created-by-user-name>
    <global>String</global>
    <domain-name>String</domain-name>
    <version>Integer</version>
    <id>Integer</id>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
    <link>String</link>
    <name>String</name>
    <network>String</network>
    <primary-dns>String</primary-dns>
    <secondary-dns>String</secondary-dns>
    <primary-wins>String</primary-wins>
    <secondary-wins>String</secondary-wins>
    <address-pool-ranges>
      <address-pool-range>
        <name>String</name>
        <lower-limit>String</lower-limit>
        <high-limit>String</high-limit>
      </address-pool-range>
      <uri>String</uri>
    </address-pool-ranges>
  </address-pool>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</address-pools>
```


Delete AddressPool

URI	/api/juniper/sd/address-pool-management/address-pools/{id}
HTTP method	DELETE

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Content-Type	None
Accept-Type	None
Access-Control	deleteAccessProfile

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CHAPTER 9

Antispam Profile Management RESTful Web Services

The following opertions can be performed using Secuirty Director Antispam Profile Management RESTful Web Services

Modify Antispam Profile

This request is used to modify an antispam profile.

URI	/api/juniper/sd/utm-management/anti-spam-profiles/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.utm-management.anti-spam-profile+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.anti-spam-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.anti-spam-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.anti-spam-profile+json;version=1;q=0.01
Access-Control	modifyAntiSpam

Sample JSON Input

```
{
  "anti-spam-profile" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "default-action" : [ "BLOCK_EMAIL", "NONE", "TAG_HEADER", "TAG_SUBJECT" ],
    "tag-string" : "String",
    "default-sbl-server" : [ "LOCAL", "SOPHOS_BLACKLIST", "NONE" ],
    "uuid" : "String",
    "id_perms" : {
```


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```
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<anti-spam-profile>
   <name>String</name>
   <description>String</description>
   <id>Integer</id>
   <edit-version>Integer</edit-version>
   <definition-type>Hidden</definition-type>
   <definition-type>Predefined</definition-type>
   <definition-type>Custom</definition-type>
   <definition-type>All</definition-type>
   <default-action>BLOCK_EMAIL</default-action>
   <default-action>NONE</default-action>
   <default-action>TAG_HEADER</default-action>
   <default-action>TAG_SUBJECT</default-action>
   <tag-string>String</tag-string>
   <default-sbl-server>LOCAL</default-sbl-server>
   <default-sbl-server>SOPHOS_BLACKLIST</default-sbl-server>
   <default-sbl-server>NONE</default-sbl-server>
   <uuid>String</uuid>
   <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
   </id_perms>
   <display_name>String</display_name>
   <update_number>int</update_number>
</anti-spam-profile>
```

Sample JSON Output:

```
{
  "anti-spam-profile" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "default-action" : [ "BLOCK_EMAIL", "NONE", "TAG_HEADER", "TAG_SUBJECT" ],
    "tag-string" : "String",
    "default-sbl-server" : [ "LOCAL", "SOPHOS_BLACKLIST", "NONE" ],
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
```


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```
    "update_number" : "int"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<anti-spam-profile>
  <name>String</name>
  <description>String</description>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <default-action>BLOCK_EMAIL</default-action>
  <default-action>NONE</default-action>
  <default-action>TAG_HEADER</default-action>
  <default-action>TAG_SUBJECT</default-action>
  <tag-string>String</tag-string>
  <default-sbl-server>LOCAL</default-sbl-server>
  <default-sbl-server>SOPHOS_BLACKLIST</default-sbl-server>
  <default-sbl-server>NONE</default-sbl-server>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <uri>String</uri>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</anti-spam-profile>
```

Get Antispam Profile by ID

This request is used to list the antispam profile information by ID.

URI	/api/juniper/sd/utm-management/anti-spam-profiles/{id}
HTTP method	GET

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Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.anti-spam-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.anti-spam-profile+json;version=1;q=0.01
Access-Control	viewAntiSpam

Sample JSON Output:


```
{
  "anti-spam-profile" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "default-action" : [ "BLOCK_EMAIL", "NONE", "TAG_HEADER", "TAG_SUBJECT" ],
    "tag-string" : "String",
    "default-sbl-server" : [ "LOCAL", "SOPHOS_BLACKLIST", "NONE" ],
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<anti-spam-profile>
    <name>String</name>
    <description>String</description>
    <id>Integer</id>
    <edit-version>Integer</edit-version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <default-action>BLOCK_EMAIL</default-action>
    <default-action>NONE</default-action>
    <default-action>TAG_HEADER</default-action>
    <default-action>TAG_SUBJECT</default-action>
    <tag-string>String</tag-string>
    <default-sbl-server>LOCAL</default-sbl-server>
```


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```
<default-sbl-server>SOPHOS_BLACKLIST</default-sbl-server>
<default-sbl-server>NONE</default-sbl-server>
<created-by-user-name>String</created-by-user-name>
<last-modified-by-user-name>String</last-modified-by-user-name>
<domain-name>String</domain-name>
<domain-id>Integer</domain-id>
<uri>String</uri>
<uuid>String</uuid>
<id_perms>
  <created>String</created>
  <creator>String</creator>
  <last_modified>String</last_modified>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-time>Date</created-time>
  <last-modified-time>Date</last-modified-time>
</id_perms>
<display_name>String</display_name>
<update_number>int</update_number>
</anti-spam-profile>
```


Get All Antispam Profiles

This request is used to collect all the antispam profile objects configured in Security Director.

URI	/api/juniper/sd/utm-management/anti-spam-profiles
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.anti-spam-profile-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.anti-spam-profile-refs+json;version=1;q=0.01
Access-Control	viewAntiSpam

Sample JSON Output:


```
{
  "anti-spam-profiles" : {
    "anti-spam-profile" : [ {
      "tag-string" : "String",
      "name" : "String",
      "description" : "String",
      "black-list" : [ "LOCAL", "SOPHOS_BLACKLIST", "NONE" ],
      "default-action" : [ "BLOCK_EMAIL", "NONE", "TAG_HEADER", "TAG_SUBJECT" ],
      "id" : "Integer",
```


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```
      "domain-name" : "String",
      "domain-id" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "link" : "String",
      "uri" : "String",
      "global" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<anti-spam-profiles>
  <anti-spam-profile>
    <tag-string>String</tag-string>
    <name>String</name>
    <description>String</description>
    <black-list>LOCAL</black-list>
    <black-list>SOPHOS_BLACKLIST</black-list>
    <black-list>NONE</black-list>
    <default-action>BLOCK_EMAIL</default-action>
    <default-action>NONE</default-action>
    <default-action>TAG_HEADER</default-action>
    <default-action>TAG_SUBJECT</default-action>
    <id>Integer</id>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <link>String</link>
    <uri>String</uri>
    <global>String</global>
  </anti-spam-profile>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</anti-spam-profiles>
```


Delete Antispam Profile

This request is used to delete the antispam profiles by ID.

URI	/api/juniper/sd/utm-management/anti-spam-profiles/{id}
HTTP method	DELETE
Content-Type	None

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Accept-Type	None
Access-Control	deleteAntiSpam

Create Antispam Profile

This request is used to create a new antispam profile.

URI	/api/juniper/sd/utm-management/anti-spam-profiles
HTTP method	POST
Content-Type	application/vnd.juniper.sd.utm-management.anti-spam-profile+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.anti-spam-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.anti-spam-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.anti-spam-profile+json;version=1;q=0.01
Access-Control	createAntiSpam

Sample JSON Input

```
{
  "anti-spam-profile" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "default-action" : [ "BLOCK_EMAIL", "NONE", "TAG_HEADER", "TAG_SUBJECT" ],
    "tag-string" : "String",
    "default-sbl-server" : [ "LOCAL", "SOPHOS_BLACKLIST", "NONE" ],
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "display_name" : "String",
    "update_number" : "int"
```


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```
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<anti-spam-profile>
   <name>String</name>
   <description>String</description>
   <id>Integer</id>
   <edit-version>Integer</edit-version>
   <definition-type>Hidden</definition-type>
   <definition-type>Predefined</definition-type>
   <definition-type>Custom</definition-type>
   <definition-type>All</definition-type>
   <default-action>BLOCK_EMAIL</default-action>
   <default-action>NONE</default-action>
   <default-action>TAG_HEADER</default-action>
   <default-action>TAG_SUBJECT</default-action>
   <tag-string>String</tag-string>
   <default-sbl-server>LOCAL</default-sbl-server>
   <default-sbl-server>SOPHOS_BLACKLIST</default-sbl-server>
   <default-sbl-server>NONE</default-sbl-server>
   <uuid>String</uuid>
   <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
   </id_perms>
   <display_name>String</display_name>
   <update_number>int</update_number>
</anti-spam-profile>
```

Sample JSON Output:

```
{
  "anti-spam-profile" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "default-action" : [ "BLOCK_EMAIL", "NONE", "TAG_HEADER", "TAG_SUBJECT" ],
    "tag-string" : "String",
    "default-sbl-server" : [ "LOCAL", "SOPHOS_BLACKLIST", "NONE" ],
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
```


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```
    "update_number" : "int"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<anti-spam-profile>
  <name>String</name>
  <description>String</description>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <default-action>BLOCK_EMAIL</default-action>
  <default-action>NONE</default-action>
  <default-action>TAG_HEADER</default-action>
  <default-action>TAG_SUBJECT</default-action>
  <tag-string>String</tag-string>
  <default-sbl-server>LOCAL</default-sbl-server>
  <default-sbl-server>SOPHOS_BLACKLIST</default-sbl-server>
  <default-sbl-server>NONE</default-sbl-server>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <uri>String</uri>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</anti-spam-profile>
```


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CHAPTER 10

Antivirus Profile Management RESTful Web Services

The following opertions can be performed using Secuirty Director Antivirus Profile Management RESTful Web Services

Modify Antivirus Profile

This request is used to modify an antivirus profile.

URI	/api/juniper/sd/utm-management/anti-virus-profiles/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.utm-management.anti-virus-profile+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.anti-virus-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.anti-virus-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.anti-virus-profile+json;version=1;q=0.01
Access-Control	modifyAntiVirus

Sample JSON Input

```
{
  "anti-virus-profile" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "trickling-timeout" : "Integer",
    "virus-detection-notification-options" : {
      "custom-notification-message" : "String",
      "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
      "custom-notification-subject" : "String",
```


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```
    "notify-mail-sender" : "Boolean"
  },
  "fallback-block-notification-options" : {
    "fallback-block-notification-option" : {
      "custom-notification-message" : "String",
      "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
      "custom-notification-subject" : "String",
      "notify-mail-sender" : "Boolean"
    },
    "allow-email" : "Boolean",
    "display-host-name" : "Boolean",
    "administrator-email-address" : "String"
  },
  "fallback-non-block-notification-options" : {
    "custom-notification-message" : "String",
    "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
    "custom-notification-subject" : "String",
    "notify-mail-sender" : "Boolean"
  },
  "scan-options" : {
    "content-size-limit" : "Integer",
    "scan-file-extension" : [ "String" ]
  },
  "fallback-options" : {
    "fallback-option" : {
      "engine-error" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
      "default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
      "timeout" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
      "out-of-resources" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
      "too-many-requests" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
      "decompress-error" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ]
    },
    "decompress-layer" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "password-file" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "content-size" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "corrupt-file" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ]
  },
  "profile-type" : [ "KASPERSKY", "JUNIPER_EXPRESS", "SOPHOS", "AVIRA", "NONE" ],
  "uuid" : "String",
  "id_perms" : {
    "created" : "String",
    "creator" : "String",
    "last_modified" : "String"
  },
  "display_name" : "String",
  "update_number" : "int",
  "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ]
 }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<anti-virus-profile>
  <name>String</name>
  <description>String</description>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <trickling-timeout>Integer</trickling-timeout>
  <virus-detection-notification-options>
    <custom-notification-message>String</custom-notification-message>
```


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```
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
  </virus-detection-notification-options>
  <fallback-block-notification-options>
    <fallback-block-notification-option>
      <custom-notification-message>String</custom-notification-message>
      <notification-type>PROTOCOL</notification-type>
      <notification-type>MESSAGE</notification-type>
      <notification-type>NONE</notification-type>
      <custom-notification-subject>String</custom-notification-subject>
      <notify-mail-sender>Boolean</notify-mail-sender>
    </fallback-block-notification-option>
    <allow-email>Boolean</allow-email>
    <display-host-name>Boolean</display-host-name>
    <administrator-email-address>String</administrator-email-address>
  </fallback-block-notification-options>
  <fallback-non-block-notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
  </fallback-non-block-notification-options>
  <scan-options>
    <content-size-limit>Integer</content-size-limit>
    <scan-file-extension>String</scan-file-extension>
  </scan-options>
  <fallback-options>
    <fallback-option>
      <engine-error>PERMIT</engine-error>
      <engine-error>LOG_AND_PERMIT</engine-error>
      <engine-error>BLOCK</engine-error>
      <engine-error>NONE</engine-error>
      <default-action>PERMIT</default-action>
      <default-action>LOG_AND_PERMIT</default-action>
      <default-action>BLOCK</default-action>
      <default-action>NONE</default-action>
      <timeout>PERMIT</timeout>
      <timeout>LOG_AND_PERMIT</timeout>
      <timeout>BLOCK</timeout>
      <timeout>NONE</timeout>
      <out-of-resources>PERMIT</out-of-resources>
      <out-of-resources>LOG_AND_PERMIT</out-of-resources>
      <out-of-resources>BLOCK</out-of-resources>
      <out-of-resources>NONE</out-of-resources>
      <too-many-requests>PERMIT</too-many-requests>
      <too-many-requests>LOG_AND_PERMIT</too-many-requests>
      <too-many-requests>BLOCK</too-many-requests>
      <too-many-requests>NONE</too-many-requests>
      <decompress-error>PERMIT</decompress-error>
      <decompress-error>LOG_AND_PERMIT</decompress-error>
      <decompress-error>BLOCK</decompress-error>
      <decompress-error>NONE</decompress-error>
    </fallback-option>
    <decompress-layer>PERMIT</decompress-layer>
    <decompress-layer>LOG_AND_PERMIT</decompress-layer>
    <decompress-layer>BLOCK</decompress-layer>
    <decompress-layer>NONE</decompress-layer>
    <password-file>PERMIT</password-file>
    <password-file>LOG_AND_PERMIT</password-file>
```


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```
    <password-file>BLOCK</password-file>
    <password-file>NONE</password-file>
    <content-size>PERMIT</content-size>
    <content-size>LOG_AND_PERMIT</content-size>
    <content-size>BLOCK</content-size>
    <content-size>NONE</content-size>
    <corrupt-file>PERMIT</corrupt-file>
    <corrupt-file>LOG_AND_PERMIT</corrupt-file>
    <corrupt-file>BLOCK</corrupt-file>
    <corrupt-file>NONE</corrupt-file>
  </fallback-options>
  <profile-type>KASPERSKY</profile-type>
  <profile-type>JUNIPER_EXPRESS</profile-type>
  <profile-type>SOPHOS</profile-type>
  <profile-type>AVIRA</profile-type>
  <profile-type>NONE</profile-type>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
</anti-virus-profile>
```

Sample JSON Output:

```
{
  "anti-virus-profile" : {
    "name" : "String",
    "description" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "trickling-timeout" : "Integer",
    "virus-detection-notification-options" : {
      "custom-notification-message" : "String",
      "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
      "custom-notification-subject" : "String",
      "notify-mail-sender" : "Boolean",
      "uri" : "String"
    },
    "fallback-block-notification-options" : {
      "fallback-block-notification-option" : {
        "custom-notification-message" : "String",
        "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
        "custom-notification-subject" : "String",
        "notify-mail-sender" : "Boolean",
        "uri" : "String"
      },
      "allow-email" : "Boolean",
      "display-host-name" : "Boolean",
      "administrator-email-address" : "String",
      "uri" : "String"
    },
    "fallback-non-block-notification-options" : {
      "custom-notification-message" : "String",
      "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
      "custom-notification-subject" : "String",
```


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```
    "notify-mail-sender" : "Boolean",
    "uri" : "String"
   },
   "scan-options" : {
    "content-size-limit" : "Integer",
    "scan-file-extension" : [ "String" ],
    "uri" : "String"
   },
   "fallback-options" : {
    "fallback-option" : {
     "engine-error" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
     "default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
     "timeout" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
     "out-of-resources" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
     "too-many-requests" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
     "decompress-error" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
     "uri" : "String"
    },
    "decompress-layer" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "password-file" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "content-size" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "corrupt-file" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "uri" : "String"
   },
   "profile-type" : [ "KASPERSKY", "JUNIPER_EXPRESS", "SOPHOS", "AVIRA", "NONE" ],
   "created-by-user-name" : "String",
   "last-modified-by-user-name" : "String",
   "uri" : "String",
   "uuid" : "String",
   "id_perms" : {
    "created" : "String",
    "creator" : "String",
    "last_modified" : "String",
    "last-modified-by-user-name" : "String",
    "created-time" : "Date",
    "last-modified-time" : "Date"
   },
   "display_name" : "String",
   "update_number" : "int",
   "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ]
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<anti-virus-profile>
  <name>String</name>
  <description>String</description>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <trickling-timeout>Integer</trickling-timeout>
  <virus-detection-notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
```


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```
    <notify-mail-sender>Boolean</notify-mail-sender>
    <uri>String</uri>
  </virus-detection-notification-options>
  <fallback-block-notification-options>
    <fallback-block-notification-option>
      <custom-notification-message>String</custom-notification-message>
      <notification-type>PROTOCOL</notification-type>
      <notification-type>MESSAGE</notification-type>
      <notification-type>NONE</notification-type>
      <custom-notification-subject>String</custom-notification-subject>
      <notify-mail-sender>Boolean</notify-mail-sender>
      <uri>String</uri>
    </fallback-block-notification-option>
    <allow-email>Boolean</allow-email>
    <display-host-name>Boolean</display-host-name>
    <administrator-email-address>String</administrator-email-address>
    <uri>String</uri>
  </fallback-block-notification-options>
  <fallback-non-block-notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
    <uri>String</uri>
  </fallback-non-block-notification-options>
  <scan-options>
    <content-size-limit>Integer</content-size-limit>
    <scan-file-extension>String</scan-file-extension>
    <uri>String</uri>
  </scan-options>
  <fallback-options>
    <fallback-option>
      <engine-error>PERMIT</engine-error>
      <engine-error>LOG_AND_PERMIT</engine-error>
      <engine-error>BLOCK</engine-error>
      <engine-error>NONE</engine-error>
      <default-action>PERMIT</default-action>
      <default-action>LOG_AND_PERMIT</default-action>
      <default-action>BLOCK</default-action>
      <default-action>NONE</default-action>
      <timeout>PERMIT</timeout>
      <timeout>LOG_AND_PERMIT</timeout>
      <timeout>BLOCK</timeout>
      <timeout>NONE</timeout>
      <out-of-resources>PERMIT</out-of-resources>
      <out-of-resources>LOG_AND_PERMIT</out-of-resources>
      <out-of-resources>BLOCK</out-of-resources>
      <out-of-resources>NONE</out-of-resources>
      <too-many-requests>PERMIT</too-many-requests>
      <too-many-requests>LOG_AND_PERMIT</too-many-requests>
      <too-many-requests>BLOCK</too-many-requests>
      <too-many-requests>NONE</too-many-requests>
      <decompress-error>PERMIT</decompress-error>
      <decompress-error>LOG_AND_PERMIT</decompress-error>
      <decompress-error>BLOCK</decompress-error>
      <decompress-error>NONE</decompress-error>
      <uri>String</uri>
    </fallback-option>
    <decompress-layer>PERMIT</decompress-layer>
    <decompress-layer>LOG_AND_PERMIT</decompress-layer>
    <decompress-layer>BLOCK</decompress-layer>
    <decompress-layer>NONE</decompress-layer>
```


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```
    <password-file>PERMIT</password-file>
    <password-file>LOG_AND_PERMIT</password-file>
    <password-file>BLOCK</password-file>
    <password-file>NONE</password-file>
    <content-size>PERMIT</content-size>
    <content-size>LOG_AND_PERMIT</content-size>
    <content-size>BLOCK</content-size>
    <content-size>NONE</content-size>
    <corrupt-file>PERMIT</corrupt-file>
    <corrupt-file>LOG_AND_PERMIT</corrupt-file>
    <corrupt-file>BLOCK</corrupt-file>
    <corrupt-file>NONE</corrupt-file>
    <uri>String</uri>
  </fallback-options>
  <profile-type>KASPERSKY</profile-type>
  <profile-type>JUNIPER_EXPRESS</profile-type>
  <profile-type>SOPHOS</profile-type>
  <profile-type>AVIRA</profile-type>
  <profile-type>NONE</profile-type>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
</anti-virus-profile>
```


Get Antivirus Profile by ID

This request is used to list the antivirus profile information by ID.

URI	/api/juniper/sd/utm-management/anti-virus-profiles/{id}
HTTP method	GET
Content-Type	None

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Accept-Type	application/vnd.juniper.sd.utm-management.anti-virus-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.anti-virus-profile+json;version=1;q=0.01
Access-Control	viewAntiVirus

Sample JSON Output:


```
{
  "anti-virus-profile" : {
    "name" : "String",
    "description" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "trickling-timeout" : "Integer",
    "virus-detection-notification-options" : {
      "custom-notification-message" : "String",
      "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
      "custom-notification-subject" : "String",
      "notify-mail-sender" : "Boolean",
      "uri" : "String"
    },
    "fallback-block-notification-options" : {
      "fallback-block-notification-option" : {
        "custom-notification-message" : "String",
        "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
        "custom-notification-subject" : "String",
        "notify-mail-sender" : "Boolean",
        "uri" : "String"
      },
      "allow-email" : "Boolean",
      "display-host-name" : "Boolean",
      "administrator-email-address" : "String",
      "uri" : "String"
    },
    "fallback-non-block-notification-options" : {
      "custom-notification-message" : "String",
      "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
      "custom-notification-subject" : "String",
      "notify-mail-sender" : "Boolean",
      "uri" : "String"
    },
    "scan-options" : {
      "content-size-limit" : "Integer",
      "scan-file-extension" : [ "String" ],
      "uri" : "String"
    },
    "fallback-options" : {
      "fallback-option" : {
        "engine-error" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
        "default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
        "timeout" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
        "out-of-resources" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
        "too-many-requests" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
        "decompress-error" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
```


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```
      "uri" : "String"
    },
    "decompress-layer" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "password-file" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "content-size" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "corrupt-file" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "uri" : "String"
  },
  "profile-type" : [ "KASPERSKY", "JUNIPER_EXPRESS", "SOPHOS", "AVIRA", "NONE" ],
  "created-by-user-name" : "String",
  "last-modified-by-user-name" : "String",
  "uri" : "String",
  "uuid" : "String",
  "id_perms" : {
    "created" : "String",
    "creator" : "String",
    "last_modified" : "String",
    "last-modified-by-user-name" : "String",
    "created-time" : "Date",
    "last-modified-time" : "Date"
  },
  "display_name" : "String",
  "update_number" : "int",
  "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ]
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<anti-virus-profile>
  <name>String</name>
  <description>String</description>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <trickling-timeout>Integer</trickling-timeout>
  <virus-detection-notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
    <uri>String</uri>
  </virus-detection-notification-options>
  <fallback-block-notification-options>
    <fallback-block-notification-option>
      <custom-notification-message>String</custom-notification-message>
      <notification-type>PROTOCOL</notification-type>
      <notification-type>MESSAGE</notification-type>
      <notification-type>NONE</notification-type>
      <custom-notification-subject>String</custom-notification-subject>
      <notify-mail-sender>Boolean</notify-mail-sender>
      <uri>String</uri>
    </fallback-block-notification-option>
    <allow-email>Boolean</allow-email>
    <display-host-name>Boolean</display-host-name>
    <administrator-email-address>String</administrator-email-address>
```


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```
    <uri>String</uri>
  </fallback-block-notification-options>
  <fallback-non-block-notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
    <uri>String</uri>
  </fallback-non-block-notification-options>
  <scan-options>
    <content-size-limit>Integer</content-size-limit>
    <scan-file-extension>String</scan-file-extension>
    <uri>String</uri>
  </scan-options>
  <fallback-options>
    <fallback-option>
      <engine-error>PERMIT</engine-error>
      <engine-error>LOG_AND_PERMIT</engine-error>
      <engine-error>BLOCK</engine-error>
      <engine-error>NONE</engine-error>
      <default-action>PERMIT</default-action>
      <default-action>LOG_AND_PERMIT</default-action>
      <default-action>BLOCK</default-action>
      <default-action>NONE</default-action>
      <timeout>PERMIT</timeout>
      <timeout>LOG_AND_PERMIT</timeout>
      <timeout>BLOCK</timeout>
      <timeout>NONE</timeout>
      <out-of-resources>PERMIT</out-of-resources>
      <out-of-resources>LOG_AND_PERMIT</out-of-resources>
      <out-of-resources>BLOCK</out-of-resources>
      <out-of-resources>NONE</out-of-resources>
      <too-many-requests>PERMIT</too-many-requests>
      <too-many-requests>LOG_AND_PERMIT</too-many-requests>
      <too-many-requests>BLOCK</too-many-requests>
      <too-many-requests>NONE</too-many-requests>
      <decompress-error>PERMIT</decompress-error>
      <decompress-error>LOG_AND_PERMIT</decompress-error>
      <decompress-error>BLOCK</decompress-error>
      <decompress-error>NONE</decompress-error>
      <uri>String</uri>
    </fallback-option>
    <decompress-layer>PERMIT</decompress-layer>
    <decompress-layer>LOG_AND_PERMIT</decompress-layer>
    <decompress-layer>BLOCK</decompress-layer>
    <decompress-layer>NONE</decompress-layer>
    <password-file>PERMIT</password-file>
    <password-file>LOG_AND_PERMIT</password-file>
    <password-file>BLOCK</password-file>
    <password-file>NONE</password-file>
    <content-size>PERMIT</content-size>
    <content-size>LOG_AND_PERMIT</content-size>
    <content-size>BLOCK</content-size>
    <content-size>NONE</content-size>
    <corrupt-file>PERMIT</corrupt-file>
    <corrupt-file>LOG_AND_PERMIT</corrupt-file>
    <corrupt-file>BLOCK</corrupt-file>
    <corrupt-file>NONE</corrupt-file>
    <uri>String</uri>
  </fallback-options>
  <profile-type>KASPERSKY</profile-type>
  <profile-type>JUNIPER_EXPRESS</profile-type>
```


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```
    <profile-type>SOPHOS</profile-type>
    <profile-type>AVIRA</profile-type>
    <profile-type>NONE</profile-type>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <uri>String</uri>
    <uuid>String</uuid>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <display_name>String</display_name>
    <update_number>int</update_number>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
</anti-virus-profile>
```

Get All Antivirus Profiles

This API is used to collect all the antivirus profile objects configured in Security Director.

URI	/api/juniper/sd/utm-management/anti-virus-profiles
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.anti-virus-profile-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.anti-virus-profile-refs+json;version=1;q=0.01
Access-Control	viewAntiVirus

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Sample JSON Output:


```
{
  "anti-virus-profiles" : {
    "anti-virus-profile" : [ {
      "name" : "String",
      "profile-type" : [ "KASPERSKY", "JUNIPER_EXPRESS", "SOPHOS", "AVIRA", "NONE" ],
      "scan-options" : {
        "content-size-limit" : "Integer"
      },
      "trickling-timeout" : "Integer",
      "description" : "String",
      "id" : "Integer",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "link" : "String",
      "uri" : "String",
      "global" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<anti-virus-profiles>
  <anti-virus-profile>
    <name>String</name>
    <profile-type>KASPERSKY</profile-type>
    <profile-type>JUNIPER_EXPRESS</profile-type>
    <profile-type>SOPHOS</profile-type>
    <profile-type>AVIRA</profile-type>
    <profile-type>NONE</profile-type>
    <scan-options>
      <content-size-limit>Integer</content-size-limit>
    </scan-options>
    <trickling-timeout>Integer</trickling-timeout>
    <description>String</description>
    <id>Integer</id>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <link>String</link>
    <uri>String</uri>
    <global>String</global>
  </anti-virus-profile>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</anti-virus-profiles>
```


Delete Antivirus Profile

This request is used to delete the antivirus profiles by ID.

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URI	/api/juniper/sd/utm-management/anti-virus-profiles/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteAntiVirus

Create Antivirus Profile

This API request is used to create an antivirus profile.

URI	/api/juniper/sd/utm-management/anti-virus-profiles
HTTP method	POST
Content-Type	application/vnd.juniper.sd.utm-management.anti-virus-profile+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.anti-virus-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.anti-virus-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.anti-virus-profile+json;version=1;q=0.01
Access-Control	createAntiVirus

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Sample JSON Input


```
{
  "anti-virus-profile" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "trickling-timeout" : "Integer",
    "virus-detection-notification-options" : {
      "custom-notification-message" : "String",
      "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
      "custom-notification-subject" : "String",
      "notify-mail-sender" : "Boolean"
    },
    "fallback-block-notification-options" : {
      "fallback-block-notification-option" : {
        "custom-notification-message" : "String",
        "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
        "custom-notification-subject" : "String",
        "notify-mail-sender" : "Boolean"
      },
      "allow-email" : "Boolean",
      "display-host-name" : "Boolean",
      "administrator-email-address" : "String"
    },
    "fallback-non-block-notification-options" : {
      "custom-notification-message" : "String",
      "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
      "custom-notification-subject" : "String",
      "notify-mail-sender" : "Boolean"
    },
    "scan-options" : {
      "content-size-limit" : "Integer",
      "scan-file-extension" : [ "String" ]
    },
    "fallback-options" : {
      "fallback-option" : {
        "engine-error" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
        "default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
        "timeout" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
        "out-of-resources" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
        "too-many-requests" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
        "decompress-error" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ]
      },
      "decompress-layer" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
      "password-file" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
      "content-size" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
      "corrupt-file" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ]
    },
    "profile-type" : [ "KASPERSKY", "JUNIPER_EXPRESS", "SOPHOS", "AVIRA", "NONE" ],
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "display_name" : "String",
    "update_number" : "int",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ]
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<anti-virus-profile>
  <name>String</name>
  <description>String</description>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <trickling-timeout>Integer</trickling-timeout>
  <virus-detection-notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
  </virus-detection-notification-options>
  <fallback-block-notification-options>
    <fallback-block-notification-option>
      <custom-notification-message>String</custom-notification-message>
      <notification-type>PROTOCOL</notification-type>
      <notification-type>MESSAGE</notification-type>
      <notification-type>NONE</notification-type>
      <custom-notification-subject>String</custom-notification-subject>
      <notify-mail-sender>Boolean</notify-mail-sender>
    </fallback-block-notification-option>
    <allow-email>Boolean</allow-email>
    <display-host-name>Boolean</display-host-name>
    <administrator-email-address>String</administrator-email-address>
  </fallback-block-notification-options>
  <fallback-non-block-notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
  </fallback-non-block-notification-options>
  <scan-options>
    <content-size-limit>Integer</content-size-limit>
    <scan-file-extension>String</scan-file-extension>
  </scan-options>
  <fallback-options>
    <fallback-option>
      <engine-error>PERMIT</engine-error>
      <engine-error>LOG_AND_PERMIT</engine-error>
      <engine-error>BLOCK</engine-error>
      <engine-error>NONE</engine-error>
      <default-action>PERMIT</default-action>
      <default-action>LOG_AND_PERMIT</default-action>
      <default-action>BLOCK</default-action>
      <default-action>NONE</default-action>
      <timeout>PERMIT</timeout>
      <timeout>LOG_AND_PERMIT</timeout>
      <timeout>BLOCK</timeout>
      <timeout>NONE</timeout>
      <out-of-resources>PERMIT</out-of-resources>
      <out-of-resources>LOG_AND_PERMIT</out-of-resources>
      <out-of-resources>BLOCK</out-of-resources>
      <out-of-resources>NONE</out-of-resources>
```


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```
      <too-many-requests>PERMIT</too-many-requests>
      <too-many-requests>LOG_AND_PERMIT</too-many-requests>
      <too-many-requests>BLOCK</too-many-requests>
      <too-many-requests>NONE</too-many-requests>
      <decompress-error>PERMIT</decompress-error>
      <decompress-error>LOG_AND_PERMIT</decompress-error>
      <decompress-error>BLOCK</decompress-error>
      <decompress-error>NONE</decompress-error>
    </fallback-option>
    <decompress-layer>PERMIT</decompress-layer>
    <decompress-layer>LOG_AND_PERMIT</decompress-layer>
    <decompress-layer>BLOCK</decompress-layer>
    <decompress-layer>NONE</decompress-layer>
    <password-file>PERMIT</password-file>
    <password-file>LOG_AND_PERMIT</password-file>
    <password-file>BLOCK</password-file>
    <password-file>NONE</password-file>
    <content-size>PERMIT</content-size>
    <content-size>LOG_AND_PERMIT</content-size>
    <content-size>BLOCK</content-size>
    <content-size>NONE</content-size>
    <corrupt-file>PERMIT</corrupt-file>
    <corrupt-file>LOG_AND_PERMIT</corrupt-file>
    <corrupt-file>BLOCK</corrupt-file>
    <corrupt-file>NONE</corrupt-file>
  </fallback-options>
  <profile-type>KASPERSKY</profile-type>
  <profile-type>JUNIPER_EXPRESS</profile-type>
  <profile-type>SOPHOS</profile-type>
  <profile-type>AVIRA</profile-type>
  <profile-type>NONE</profile-type>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
</anti-virus-profile>
```

Sample JSON Output:

```
{
  "anti-virus-profile" : {
    "name" : "String",
    "description" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "trickling-timeout" : "Integer",
    "virus-detection-notification-options" : {
      "custom-notification-message" : "String",
      "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
      "custom-notification-subject" : "String",
      "notify-mail-sender" : "Boolean",
      "uri" : "String"
    },
    "fallback-block-notification-options" : {
      "fallback-block-notification-option" : {
```


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```
      "custom-notification-message" : "String",
      "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
      "custom-notification-subject" : "String",
      "notify-mail-sender" : "Boolean",
      "uri" : "String"
    },
    "allow-email" : "Boolean",
    "display-host-name" : "Boolean",
    "administrator-email-address" : "String",
    "uri" : "String"
  },
  "fallback-non-block-notification-options" : {
    "custom-notification-message" : "String",
    "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
    "custom-notification-subject" : "String",
    "notify-mail-sender" : "Boolean",
    "uri" : "String"
  },
  "scan-options" : {
    "content-size-limit" : "Integer",
    "scan-file-extension" : [ "String" ],
    "uri" : "String"
  },
  "fallback-options" : {
    "fallback-option" : {
      "engine-error" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
      "default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
      "timeout" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
      "out-of-resources" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
      "too-many-requests" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
      "decompress-error" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
      "uri" : "String"
    },
    "decompress-layer" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "password-file" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "content-size" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "corrupt-file" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "uri" : "String"
  },
  "profile-type" : [ "KASPERSKY", "JUNIPER_EXPRESS", "SOPHOS", "AVIRA", "NONE" ],
  "created-by-user-name" : "String",
  "last-modified-by-user-name" : "String",
  "uri" : "String",
  "uuid" : "String",
  "id_perms" : {
    "created" : "String",
    "creator" : "String",
    "last_modified" : "String",
    "last-modified-by-user-name" : "String",
    "created-time" : "Date",
    "last-modified-time" : "Date"
  },
  "display_name" : "String",
  "update_number" : "int",
  "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ]
 }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<anti-virus-profile>
  <name>String</name>
  <description>String</description>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <trickling-timeout>Integer</trickling-timeout>
  <virus-detection-notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
    <uri>String</uri>
  </virus-detection-notification-options>
  <fallback-block-notification-options>
    <fallback-block-notification-option>
      <custom-notification-message>String</custom-notification-message>
      <notification-type>PROTOCOL</notification-type>
      <notification-type>MESSAGE</notification-type>
      <notification-type>NONE</notification-type>
      <custom-notification-subject>String</custom-notification-subject>
      <notify-mail-sender>Boolean</notify-mail-sender>
      <uri>String</uri>
    </fallback-block-notification-option>
    <allow-email>Boolean</allow-email>
    <display-host-name>Boolean</display-host-name>
    <administrator-email-address>String</administrator-email-address>
    <uri>String</uri>
  </fallback-block-notification-options>
  <fallback-non-block-notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
    <uri>String</uri>
  </fallback-non-block-notification-options>
  <scan-options>
    <content-size-limit>Integer</content-size-limit>
    <scan-file-extension>String</scan-file-extension>
    <uri>String</uri>
  </scan-options>
  <fallback-options>
    <fallback-option>
      <engine-error>PERMIT</engine-error>
      <engine-error>LOG_AND_PERMIT</engine-error>
      <engine-error>BLOCK</engine-error>
      <engine-error>NONE</engine-error>
      <default-action>PERMIT</default-action>
      <default-action>LOG_AND_PERMIT</default-action>
      <default-action>BLOCK</default-action>
      <default-action>NONE</default-action>
      <timeout>PERMIT</timeout>
```


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```
      <timeout>LOG_AND_PERMIT</timeout>
      <timeout>BLOCK</timeout>
      <timeout>NONE</timeout>
      <out-of-resources>PERMIT</out-of-resources>
      <out-of-resources>LOG_AND_PERMIT</out-of-resources>
      <out-of-resources>BLOCK</out-of-resources>
      <out-of-resources>NONE</out-of-resources>
      <too-many-requests>PERMIT</too-many-requests>
      <too-many-requests>LOG_AND_PERMIT</too-many-requests>
      <too-many-requests>BLOCK</too-many-requests>
      <too-many-requests>NONE</too-many-requests>
      <decompress-error>PERMIT</decompress-error>
      <decompress-error>LOG_AND_PERMIT</decompress-error>
      <decompress-error>BLOCK</decompress-error>
      <decompress-error>NONE</decompress-error>
      <uri>String</uri>
    </fallback-option>
    <decompress-layer>PERMIT</decompress-layer>
    <decompress-layer>LOG_AND_PERMIT</decompress-layer>
    <decompress-layer>BLOCK</decompress-layer>
    <decompress-layer>NONE</decompress-layer>
    <password-file>PERMIT</password-file>
    <password-file>LOG_AND_PERMIT</password-file>
    <password-file>BLOCK</password-file>
    <password-file>NONE</password-file>
    <content-size>PERMIT</content-size>
    <content-size>LOG_AND_PERMIT</content-size>
    <content-size>BLOCK</content-size>
    <content-size>NONE</content-size>
    <corrupt-file>PERMIT</corrupt-file>
    <corrupt-file>LOG_AND_PERMIT</corrupt-file>
    <corrupt-file>BLOCK</corrupt-file>
    <corrupt-file>NONE</corrupt-file>
    <uri>String</uri>
  </fallback-options>
  <profile-type>KASPERSKY</profile-type>
  <profile-type>JUNIPER_EXPRESS</profile-type>
  <profile-type>SOPHOS</profile-type>
  <profile-type>AVIRA</profile-type>
  <profile-type>NONE</profile-type>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
</anti-virus-profile>
```


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CHAPTER 11

Application Firewall Management RESTful Web Services

The following opertions can be performed using Secuirty Director Application Firewall Management RESTful Web Services

Modify Application Firewall Policy

This request is used to modify an existing application firewall policy. This operation is a full replace and therefore, vyou must provide all the basic information.

URI	/api/juniper/sd/policy-management/firewall/app-fw-policy-management/app-fw-policies/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.app-fw-policy-management.app-fw-policy+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.app-fw-policy-management.app-fw-policy+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.app-fw-policy-management.app-fw-policy+xml;version=1;q=0.01 application/vnd.juniper.sd.app-fw-policy-management.app-fw-policy+json;version=1;q=0.01
Access-Control	modifyAppFwPolicy

Sample JSON Input

```
{
  "app-fw-policy" : {
    "block-message-type" : [ "NONE", "REDIRECT_URL", "TEXT" ],
    "description" : "String",
    "block-message" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "version" : "Integer",
    "administrative-domain" : "String",
    "edit-version" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "default-rule" : "String"
```


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```
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<app-fw-policy>
   <block-message-type>NONE</block-message-type>
   <block-message-type>REDIRECT_URL</block-message-type>
   <block-message-type>TEXT</block-message-type>
   <description>String</description>
   <block-message>String</block-message>
   <definition-type>Hidden</definition-type>
   <definition-type>Predefined</definition-type>
   <definition-type>Custom</definition-type>
   <definition-type>All</definition-type>
   <version>Integer</version>
   <administrative-domain>String</administrative-domain>
   <edit-version>Integer</edit-version>
   <id>Integer</id>
   <name>String</name>
   <default-rule>String</default-rule>
</app-fw-policy>
```

Sample JSON Output:

```
{
  "app-fw-policy" : {
    "administrative-domain" : "String",
    "domain-name" : "String",
    "block-message-type" : [ "NONE", "REDIRECT_URL", "TEXT" ],
    "id" : "Integer",
    "block-message" : "String",
    "description" : "String",
    "name" : "String",
    "default-rule" : "String",
    "domain-id" : "Integer",
    "uri" : "String",
    "link" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<app-fw-policy>
   <administrative-domain>String</administrative-domain>
   <domain-name>String</domain-name>
   <block-message-type>NONE</block-message-type>
   <block-message-type>REDIRECT_URL</block-message-type>
   <block-message-type>TEXT</block-message-type>
   <id>Integer</id>
   <block-message>String</block-message>
   <description>String</description>
   <name>String</name>
   <default-rule>String</default-rule>
   <domain-id>Integer</domain-id>
   <uri>String</uri>
   <link>String</link>
</app-fw-policy>
```


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Get Application Firewall Policy By ID

This request is used to get the policy details by its ID.

URI	/api/juniper/sd/policy-management/firewall/app-fw-policy-management/app-fw-policies/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.app-fw-policy-management.app-fw-policy+xml;version=1;q=0.01 application/vnd.juniper.sd.app-fw-policy-management.app-fw-policy+json;version=1;q=0.01
Access-Control	manageAppFWPolicy

Sample JSON Output:


```
{
  "app-fw-policy" : {
    "block-message-type" : [ "NONE", "REDIRECT_URL", "TEXT" ],
    "description" : "String",
    "block-message" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "last-modified-by-user-name" : "String",
    "version" : "Integer",
    "domain-name" : "String",
    "administrative-domain" : "String",
    "created-by-user-name" : "String",
    "edit-version" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "default-rule" : "String",
    "domain-id" : "Integer",
    "uri" : "String",
    "link" : "String"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<app-fw-policy>
  <block-message-type>NONE</block-message-type>
  <block-message-type>REDIRECT_URL</block-message-type>
  <block-message-type>TEXT</block-message-type>
  <description>String</description>
  <block-message>String</block-message>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <version>Integer</version>
  <domain-name>String</domain-name>
  <administrative-domain>String</administrative-domain>
  <created-by-user-name>String</created-by-user-name>
  <edit-version>Integer</edit-version>
  <id>Integer</id>
  <name>String</name>
  <default-rule>String</default-rule>
  <domain-id>Integer</domain-id>
  <uri>String</uri>
  <link>String</link>
</app-fw-policy>
```

Get All Application Firewall Policies

This request is used to get all the application firewall policies configured in Security Director.

URI	/api/juniper/sd/policy-management/firewall/app-fw-policy-management/app-fw-policies
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.app-fw-policy-management.app-fw-policies+xml;version=1;q=0.01 application/vnd.juniper.sd.app-fw-policy-management.app-fw-policies+json;version=1;q=0.01
Access-Control	manageAppFWPolicy

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Sample JSON Output:


```
{
  "app-fw-policies" : {
    "app-fw-policy" : [ {
      "domain-name" : "String",
      "block-message-type" : [ "NONE", "REDIRECT_URL", "TEXT" ],
      "id" : "Integer",
      "block-message" : "String",
      "description" : "String",
      "name" : "String",
      "global" : "String",
      "default-rule" : "String",
      "total-rules" : "int",
      "domain-id" : "Integer",
      "uri" : "String",
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<app-fw-policies>
  <app-fw-policy>
    <domain-name>String</domain-name>
    <block-message-type>NONE</block-message-type>
    <block-message-type>REDIRECT_URL</block-message-type>
    <block-message-type>TEXT</block-message-type>
    <id>Integer</id>
    <block-message>String</block-message>
    <description>String</description>
    <name>String</name>
    <global>String</global>
    <default-rule>String</default-rule>
    <total-rules>int</total-rules>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
    <link>String</link>
  </app-fw-policy>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</app-fw-policies>
```


Delete Application Firewall Policy

This request is used to delete an application firewall policy by ID.

URI	/api/juniper/sd/policy-management/firewall/app-fw-policy-management/app-fw-policies/{id}
HTTP method	DELETE

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Content-Type	None
Accept-Type	None
Access-Control	deleteAppFwPolicy

Create Application Firewall Policy

This request is used to create a new application firewall policy.

URI	/api/juniper/sd/policy-management/firewall/app-fw-policy-management/app-fw-policies
HTTP method	POST
Content-Type	application/vnd.juniper.sd.app-fw-policy-management.app-fw-policy+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.app-fw-policy-management.app-fw-policy+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.app-fw-policy-management.app-fw-policy+xml;version=1;q=0.01 application/vnd.juniper.sd.app-fw-policy-management.app-fw-policy+json;version=1;q=0.01
Access-Control	createAppFWPolicy

Sample JSON Input

```
{
  "app-fw-policy" : {
    "block-message-type" : [ "NONE", "REDIRECT_URL", "TEXT" ],
    "description" : "String",
    "block-message" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "version" : "Integer",
    "administrative-domain" : "String",
    "edit-version" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "default-rule" : "String"
  }
```


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```
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<app-fw-policy>
  <block-message-type>NONE</block-message-type>
  <block-message-type>REDIRECT_URL</block-message-type>
  <block-message-type>TEXT</block-message-type>
  <description>String</description>
  <block-message>String</block-message>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <version>Integer</version>
  <administrative-domain>String</administrative-domain>
  <edit-version>Integer</edit-version>
  <id>Integer</id>
  <name>String</name>
  <default-rule>String</default-rule>
</app-fw-policy>
```

Sample JSON Output:

```
{
 "app-fw-policy" : {
   "administrative-domain" : "String",
   "domain-name" : "String",
   "block-message-type" : [ "NONE", "REDIRECT_URL", "TEXT" ],
   "id" : "Integer",
   "block-message" : "String",
   "description" : "String",
   "name" : "String",
   "default-rule" : "String",
   "domain-id" : "Integer",
   "uri" : "String",
   "link" : "String"
 }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<app-fw-policy>
  <administrative-domain>String</administrative-domain>
  <domain-name>String</domain-name>
  <block-message-type>NONE</block-message-type>
  <block-message-type>REDIRECT_URL</block-message-type>
  <block-message-type>TEXT</block-message-type>
  <id>Integer</id>
  <block-message>String</block-message>
  <description>String</description>
  <name>String</name>
  <default-rule>String</default-rule>
  <domain-id>Integer</domain-id>
  <uri>String</uri>
  <link>String</link>
</app-fw-policy>
```


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CHAPTER 12

Application Signature Management RESTful Web Services

The following opertions can be performed using Secuirty Director Application Signature Management RESTful Web Services

Update Shared Reference Count

Updates the reference count for a single shared object (e.g., Application Signature).

URI	/api/juniper/sd/app-sig-management/v5/ref-count-update
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageAppSig

Sample JSON Input

```
{
  "type" : "String"
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<type>String</type>
```

Sample JSON Output:

```
{
  "output" : {
    "ref_from_uuid" : "String",
    "ref_to_uuid" : "String",
    "ref_count" : "int"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<output>
   <ref_from_uuid>String</ref_from_uuid>
   <ref_to_uuid>String</ref_to_uuid>
   <ref_count>int</ref_count>
</output>
```

Retrieve Application Signature References by UUIDs

Retrieves references to application signatures based on a list of their UUIDs.

URI	/api/juniper/sd/app-sig-management/v5/get_refs_by_uuids
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageAppSig

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Sample JSON Input

```
{
  "input" : {
    "object_uuids" : [ "String" ],
    "flatten" : "boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<input>
   <object_uuids>String</object_uuids>
   <flatten>boolean</flatten>
</input>
```

Sample JSON Output:

```
{
  "External_REFS" : {
    "refs" : [ {
      "objectuuid" : "String",
      "refs" : { }
    } ]
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<External_REFS>
   <refs>
      <objectuuid>String</objectuuid>
      <refs/>
   </refs>
</External_REFS>
```

Bulk Update Shared Reference Counts

Performs bulk updates to the reference counts of multiple shared objects.

URI	/api/juniper/sd/app-sig-management/v5/bulk-ref-count-update
HTTP method	POST
Content-Type	application/json application/xml

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Accept-Type	application/json application/xml
Access-Control	manageAddress

Sample JSON Input

```
{
  "type" : "String"
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<type>String</type>
```

Sample JSON Output:

```
{
  "refUnrefOutputs" : [ {
    "ref_from_uuid" : "String",
    "ref_to_uuid" : "String",
    "ref_count" : "int"
  } ]
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<refUnrefOutputs>
   <ref_from_uuid>String</ref_from_uuid>
   <ref_to_uuid>String</ref_to_uuid>
   <ref_count>int</ref_count>
</refUnrefOutputs>
```

Update Application Signature

Modifies an existing application signature identified by its String ID.

URI	/api/juniper/sd/app-sig-management/v5/app-sigs/{id}

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HTTP method	PUT
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	modifyAppSig

Sample JSON Input


```
{
  "app-sig" : {
    "over_list" : [ "String" ],
    "pattern-sets" : {
      "pattern-set" : [ {
        "name" : "String",
        "port" : "String",
        "max-transactions" : "Integer",
        "protocol" : "String",
        "stcpattern" : "String",
        "mindata" : "Integer",
        "mindatas2c" : "Integer",
        "modified" : "String",
        "id" : "Integer",
        "uuid" : "String",
        "logic-function" : "String",
        "pattern-order" : "Integer",
        "versions" : {
          "version" : [ "String" ],
          "totalSize" : "Integer"
        },
        "ordered" : "Boolean",
        "ctspattern" : "String",
        "default-port" : "String",
        "members" : {
          "pattern-member" : [ {
            "pattern-order" : "Integer",
            "id" : "Integer",
            "uuid" : "String",
            "check-bytes" : "Integer",
            "pattern" : "String",
            "direction" : "String",
            "context" : "String"
          } ],
          "totalSize" : "Integer"
        },
        "cacheable" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "description" : "String",
    "order" : "Integer",
    "id_perms" : {
      "created" : "String",
```


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```
  "creator" : "String",
  "last_modified" : "String"
},
"id" : "Integer",
"uuid" : "String",
"aliases" : [ "String" ],
"max_transactions" : "Integer",
"group-app-members" : {
  "group-nested-member" : [ {
    "id" : "Integer",
    "uuid" : "String",
    "name" : "String",
    "app_name" : "String",
    "app_device_specific_name" : "String",
    "app_id" : "Integer",
    "description" : "String",
    "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "order" : "Integer",
    "max_transactions" : "Integer",
    "default-port" : "String",
    "category" : "String",
    "sub_category" : "String",
    "risk" : "String",
    "characteristic" : "String",
    "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
    "to" : [ "String" ]
  } ],
  "totalSize" : "Integer"
},
"disable-state" : "Boolean",
"app_name" : "String",
"name" : "String",
"app_id_version" : "int",
"device_compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"characteristic" : "String",
"sub_category" : "String",
"update_number" : "int",
"app_id" : "Integer",
"display_name" : "String",
"app-sig-tags" : [ {
  "name" : "String",
  "value" : "String"
} ],
"default-port" : "String",
"priority" : [ "low", "high" ],
"address-mapping" : {
  "ip-address" : [ {
    "name" : "String",
    "tcp-port" : "String",
    "udp-port" : "String",
    "ip" : "String"
  } ]
},
"icmp-code" : "Integer",
"icmp-type" : "Integer",
"ip-protocol" : "Integer",
"cacheable" : "Boolean",
"definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
"category" : "String",
"risk" : "String",
"protocol-name" : "String",
"app_device_specific_name" : "String",
"edit-version" : "Integer",
```


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```
    "urls" : {
      "url" : [ "String" ],
      "totalSize" : "Integer"
    },
    "application_refs" : [ {
      "id" : "Integer",
      "uuid" : "String",
      "name" : "String",
      "app_name" : "String",
      "app_device_specific_name" : "String",
      "app_id" : "Integer",
      "description" : "String",
      "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "order" : "Integer",
      "max_transactions" : "Integer",
      "default-port" : "String",
      "category" : "String",
      "sub_category" : "String",
      "risk" : "String",
      "characteristic" : "String",
      "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
      "to" : [ "String" ]
    } ],
    "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ]
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<app-sig>
  <over_list>String</over_list>
  <pattern-sets>
    <pattern-set>
      <name>String</name>
      <port>String</port>
      <max-transactions>Integer</max-transactions>
      <protocol>String</protocol>
      <stcpattern>String</stcpattern>
      <mindata>Integer</mindata>
      <mindatas2c>Integer</mindatas2c>
      <modified>String</modified>
      <id>Integer</id>
      <uuid>String</uuid>
      <logic-function>String</logic-function>
      <pattern-order>Integer</pattern-order>
      <versions>
        <version>String</version>
        <totalSize>Integer</totalSize>
      </versions>
      <ordered>Boolean</ordered>
      <ctspattern>String</ctspattern>
      <default-port>String</default-port>
      <members>
        <pattern-member>
          <pattern-order>Integer</pattern-order>
          <id>Integer</id>
          <uuid>String</uuid>
          <check-bytes>Integer</check-bytes>
          <pattern>String</pattern>
          <direction>String</direction>
          <context>String</context>
        </pattern-member>
        <totalSize>Integer</totalSize>
```


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```
      </members>
      <cacheable>String</cacheable>
    </pattern-set>
    <totalSize>Integer</totalSize>
</pattern-sets>
<description>String</description>
<order>Integer</order>
<id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
</id_perms>
<id>Integer</id>
<uuid>String</uuid>
<aliases>String</aliases>
<max_transactions>Integer</max_transactions>
<group-app-members>
    <group-nested-member>
      <id>Integer</id>
      <uuid>String</uuid>
      <name>String</name>
      <app_name>String</app_name>
      <app_device_specific_name>String</app_device_specific_name>
      <app_id>Integer</app_id>
      <description>String</description>
      <app_sig_type>PROTOCOL</app_sig_type>
      <app_sig_type>APPLICATION</app_sig_type>
      <app_sig_type>GROUP</app_sig_type>
      <definition_type>Hidden</definition_type>
      <definition_type>Predefined</definition_type>
      <definition_type>Custom</definition_type>
      <definition_type>All</definition_type>
      <order>Integer</order>
      <max_transactions>Integer</max_transactions>
      <default-port>String</default-port>
      <category>String</category>
      <sub_category>String</sub_category>
      <risk>String</risk>
      <characteristic>String</characteristic>
      <device-compatibility>ALL</device-compatibility>
      <device-compatibility>X46_AND_OLDER</device-compatibility>
      <device-compatibility>X47_AND_NEWER</device-compatibility>
      <to>String</to>
    </group-nested-member>
    <totalSize>Integer</totalSize>
</group-app-members>
<disable-state>Boolean</disable-state>
<app_name>String</app_name>
<name>String</name>
<app_id_version>int</app_id_version>
<device_compatibility>ALL</device_compatibility>
<device_compatibility>X46_AND_OLDER</device_compatibility>
<device_compatibility>X47_AND_NEWER</device_compatibility>
<characteristic>String</characteristic>
<sub_category>String</sub_category>
<update_number>int</update_number>
<app_id>Integer</app_id>
<display_name>String</display_name>
<app-sig-tags>
    <name>String</name>
    <value>String</value>
</app-sig-tags>
<default-port>String</default-port>
<priority>low</priority>
```


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```
  <priority>high</priority>
  <address-mapping>
    <ip-address>
      <name>String</name>
      <tcp-port>String</tcp-port>
      <udp-port>String</udp-port>
      <ip>String</ip>
    </ip-address>
  </address-mapping>
  <icmp-code>Integer</icmp-code>
  <icmp-type>Integer</icmp-type>
  <ip-protocol>Integer</ip-protocol>
  <cacheable>Boolean</cacheable>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <category>String</category>
  <risk>String</risk>
  <protocol-name>String</protocol-name>
  <app_device_specific_name>String</app_device_specific_name>
  <edit-version>Integer</edit-version>
  <urls>
    <url>String</url>
    <totalSize>Integer</totalSize>
  </urls>
  <application_refs>
    <id>Integer</id>
    <uuid>String</uuid>
    <name>String</name>
    <app_name>String</app_name>
    <app_device_specific_name>String</app_device_specific_name>
    <app_id>Integer</app_id>
    <description>String</description>
    <app_sig_type>PROTOCOL</app_sig_type>
    <app_sig_type>APPLICATION</app_sig_type>
    <app_sig_type>GROUP</app_sig_type>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <order>Integer</order>
    <max_transactions>Integer</max_transactions>
    <default-port>String</default-port>
    <category>String</category>
    <sub_category>String</sub_category>
    <risk>String</risk>
    <characteristic>String</characteristic>
    <device-compatibility>ALL</device-compatibility>
    <device-compatibility>X46_AND_OLDER</device-compatibility>
    <device-compatibility>X47_AND_NEWER</device-compatibility>
    <to>String</to>
  </application_refs>
  <app_sig_type>PROTOCOL</app_sig_type>
  <app_sig_type>APPLICATION</app_sig_type>
  <app_sig_type>GROUP</app_sig_type>
</app-sig>
```


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Sample JSON Output:


```
{
  "app-sig" : {
    "over_list" : [ "String" ],
    "pattern-sets" : {
      "pattern-set" : [ {
        "name" : "String",
        "port" : "String",
        "max-transactions" : "Integer",
        "protocol" : "String",
        "stcpattern" : "String",
        "mindata" : "Integer",
        "mindatas2c" : "Integer",
        "modified" : "String",
        "id" : "Integer",
        "uuid" : "String",
        "logic-function" : "String",
        "pattern-order" : "Integer",
        "versions" : {
          "version" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "ordered" : "Boolean",
        "ctspattern" : "String",
        "default-port" : "String",
        "members" : {
          "pattern-member" : [ {
            "pattern-order" : "Integer",
            "id" : "Integer",
            "uuid" : "String",
            "check-bytes" : "Integer",
            "pattern" : "String",
            "direction" : "String",
            "context" : "String",
            "uri" : "String"
          } ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "uri" : "String",
        "cacheable" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "domain-id" : "Integer",
    "description" : "String",
    "order" : "Integer",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "id" : "Integer",
    "uuid" : "String",
    "aliases" : [ "String" ],
    "max_transactions" : "Integer",
    "group-app-members" : {
      "group-nested-member" : [ {
```


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```
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "id" : "Integer",
    "uuid" : "String",
    "name" : "String",
    "app_name" : "String",
    "app_device_specific_name" : "String",
    "app_id" : "Integer",
    "description" : "String",
    "domain-id" : "Integer",
    "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "order" : "Integer",
    "max_transactions" : "Integer",
    "default-port" : "String",
    "category" : "String",
    "sub_category" : "String",
    "risk" : "String",
    "characteristic" : "String",
    "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
    "uri" : "String",
    "to" : [ "String" ],
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"disable-state" : "Boolean",
"app_name" : "String",
"name" : "String",
"app_id_version" : "int",
"device_compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"characteristic" : "String",
"sub_category" : "String",
"update_number" : "int",
"app_id" : "Integer",
"display_name" : "String",
"app-sig-tags" : [ {
  "name" : "String",
  "value" : "String",
  "uri" : "String",
  "link" : "String"
} ],
"default-port" : "String",
"priority" : [ "low", "high" ],
"address-mapping" : {
  "ip-address" : [ {
    "name" : "String",
    "tcp-port" : "String",
    "udp-port" : "String",
    "ip" : "String"
  } ]
},
"icmp-code" : "Integer",
"icmp-type" : "Integer",
"ip-protocol" : "Integer",
"cacheable" : "Boolean",
"definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
"category" : "String",
"last-modified-by-user-name" : "String",
"domain-name" : "String",
"risk" : "String",
"global" : "String",
"protocol-name" : "String",
```


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```
    "app_device_specific_name" : "String",
    "edit-version" : "Integer",
    "urls" : {
      "url" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "application_refs" : [ {
      "created-by-user-name" : "String",
      "last-modified-by-user-name" : "String",
      "id" : "Integer",
      "uuid" : "String",
      "name" : "String",
      "app_name" : "String",
      "app_device_specific_name" : "String",
      "app_id" : "Integer",
      "description" : "String",
      "domain-id" : "Integer",
      "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "order" : "Integer",
      "max_transactions" : "Integer",
      "default-port" : "String",
      "category" : "String",
      "sub_category" : "String",
      "risk" : "String",
      "characteristic" : "String",
      "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
      "uri" : "String",
      "to" : [ "String" ],
      "link" : "String"
    } ],
    "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
    "link" : "String",
    "uri" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<app-sig>
  <over_list>String</over_list>
  <pattern-sets>
    <pattern-set>
      <name>String</name>
      <port>String</port>
      <max-transactions>Integer</max-transactions>
      <protocol>String</protocol>
      <stcpattern>String</stcpattern>
      <mindata>Integer</mindata>
      <mindatas2c>Integer</mindatas2c>
      <modified>String</modified>
      <id>Integer</id>
      <uuid>String</uuid>
      <logic-function>String</logic-function>
      <pattern-order>Integer</pattern-order>
      <versions>
        <version>String</version>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </versions>
      <ordered>Boolean</ordered>
      <ctspattern>String</ctspattern>
```


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```
      <default-port>String</default-port>
      <members>
        <pattern-member>
          <pattern-order>Integer</pattern-order>
          <id>Integer</id>
          <uuid>String</uuid>
          <check-bytes>Integer</check-bytes>
          <pattern>String</pattern>
          <direction>String</direction>
          <context>String</context>
          <uri>String</uri>
        </pattern-member>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </members>
      <uri>String</uri>
      <cacheable>String</cacheable>
    </pattern-set>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </pattern-sets>
  <domain-id>Integer</domain-id>
  <description>String</description>
  <order>Integer</order>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <id>Integer</id>
  <uuid>String</uuid>
  <aliases>String</aliases>
  <max_transactions>Integer</max_transactions>
  <group-app-members>
    <group-nested-member>
      <created-by-user-name>String</created-by-user-name>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <id>Integer</id>
      <uuid>String</uuid>
      <name>String</name>
      <app_name>String</app_name>
      <app_device_specific_name>String</app_device_specific_name>
      <app_id>Integer</app_id>
      <description>String</description>
      <domain-id>Integer</domain-id>
      <app_sig_type>PROTOCOL</app_sig_type>
      <app_sig_type>APPLICATION</app_sig_type>
      <app_sig_type>GROUP</app_sig_type>
      <definition_type>Hidden</definition_type>
      <definition_type>Predefined</definition_type>
      <definition_type>Custom</definition_type>
      <definition_type>All</definition_type>
      <order>Integer</order>
      <max_transactions>Integer</max_transactions>
      <default-port>String</default-port>
      <category>String</category>
      <sub_category>String</sub_category>
      <risk>String</risk>
      <characteristic>String</characteristic>
      <device-compatibility>ALL</device-compatibility>
      <device-compatibility>X46_AND_OLDER</device-compatibility>
```


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```
      <device-compatibility>X47_AND_NEWER</device-compatibility>
      <uri>String</uri>
      <to>String</to>
      <link>String</link>
    </group-nested-member>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
</group-app-members>
<disable-state>Boolean</disable-state>
<app_name>String</app_name>
<name>String</name>
<app_id_version>int</app_id_version>
<device_compatibility>ALL</device_compatibility>
<device_compatibility>X46_AND_OLDER</device_compatibility>
<device_compatibility>X47_AND_NEWER</device_compatibility>
<characteristic>String</characteristic>
<sub_category>String</sub_category>
<update_number>int</update_number>
<app_id>Integer</app_id>
<display_name>String</display_name>
<app-sig-tags>
    <name>String</name>
    <value>String</value>
    <uri>String</uri>
    <link>String</link>
</app-sig-tags>
<default-port>String</default-port>
<priority>low</priority>
<priority>high</priority>
<address-mapping>
    <ip-address>
      <name>String</name>
      <tcp-port>String</tcp-port>
      <udp-port>String</udp-port>
      <ip>String</ip>
    </ip-address>
</address-mapping>
<icmp-code>Integer</icmp-code>
<icmp-type>Integer</icmp-type>
<ip-protocol>Integer</ip-protocol>
<cacheable>Boolean</cacheable>
<definition_type>Hidden</definition_type>
<definition_type>Predefined</definition_type>
<definition_type>Custom</definition_type>
<definition_type>All</definition_type>
<category>String</category>
<last-modified-by-user-name>String</last-modified-by-user-name>
<domain-name>String</domain-name>
<risk>String</risk>
<global>String</global>
<protocol-name>String</protocol-name>
<app_device_specific_name>String</app_device_specific_name>
<edit-version>Integer</edit-version>
<urls>
    <url>String</url>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
</urls>
<application_refs>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <id>Integer</id>
    <uuid>String</uuid>
    <name>String</name>
```


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```
    <app_name>String</app_name>
    <app_device_specific_name>String</app_device_specific_name>
    <app_id>Integer</app_id>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <app_sig_type>PROTOCOL</app_sig_type>
    <app_sig_type>APPLICATION</app_sig_type>
    <app_sig_type>GROUP</app_sig_type>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <order>Integer</order>
    <max_transactions>Integer</max_transactions>
    <default-port>String</default-port>
    <category>String</category>
    <sub_category>String</sub_category>
    <risk>String</risk>
    <characteristic>String</characteristic>
    <device-compatibility>ALL</device-compatibility>
    <device-compatibility>X46_AND_OLDER</device-compatibility>
    <device-compatibility>X47_AND_NEWER</device-compatibility>
    <uri>String</uri>
    <to>String</to>
    <link>String</link>
  </application_refs>
  <app_sig_type>PROTOCOL</app_sig_type>
  <app_sig_type>APPLICATION</app_sig_type>
  <app_sig_type>GROUP</app_sig_type>
  <link>String</link>
  <uri>String</uri>
</app-sig>
```


Retrieve All Application Signatures

Fetches a paginated list of all configured application signatures with full details.

URI	/api/juniper/sd/app-sig-management/v5/app-sigs
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageAppSig

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Sample JSON Output:


```
{
  "app-sigs" : {
    "app-sig" : [ {
      "over_list" : [ "String" ],
      "aliases" : [ "String" ],
      "domain-id" : "Integer",
      "description" : "String",
      "order" : "Integer",
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String",
        "last-modified-by-user-name" : "String",
        "created-time" : "Date",
        "last-modified-time" : "Date"
      },
      "id" : "Integer",
      "uuid" : "String",
      "max_transactions" : "Integer",
      "disable-state" : "Boolean",
      "app_name" : "String",
      "name" : "String",
      "app_id_version" : "int",
      "characteristic" : "String",
      "sub_category" : "String",
      "update_number" : "int",
      "app_id" : "Integer",
      "display_name" : "String",
      "default-port" : "String",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "category" : "String",
      "last-modified-by-user-name" : "String",
      "domain-name" : "String",
      "risk" : "String",
      "global" : "String",
      "protocol-name" : "String",
      "app_device_specific_name" : "String",
      "edit-version" : "Integer",
      "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
      "link" : "String",
      "uri" : "String",
      "device_compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ]
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<app-sigs>
  <app-sig>
    <over_list>String</over_list>
    <aliases>String</aliases>
    <domain-id>Integer</domain-id>
    <description>String</description>
    <order>Integer</order>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
```


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```
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <id>Integer</id>
    <uuid>String</uuid>
    <max_transactions>Integer</max_transactions>
    <disable-state>Boolean</disable-state>
    <app_name>String</app_name>
    <name>String</name>
    <app_id_version>int</app_id_version>
    <characteristic>String</characteristic>
    <sub_category>String</sub_category>
    <update_number>int</update_number>
    <app_id>Integer</app_id>
    <display_name>String</display_name>
    <default-port>String</default-port>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <category>String</category>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-name>String</domain-name>
    <risk>String</risk>
    <global>String</global>
    <protocol-name>String</protocol-name>
    <app_device_specific_name>String</app_device_specific_name>
    <edit-version>Integer</edit-version>
    <app_sig_type>PROTOCOL</app_sig_type>
    <app_sig_type>APPLICATION</app_sig_type>
    <app_sig_type>GROUP</app_sig_type>
    <link>String</link>
    <uri>String</uri>
    <device_compatibility>ALL</device_compatibility>
    <device_compatibility>X46_AND_OLDER</device_compatibility>
    <device_compatibility>X47_AND_NEWER</device_compatibility>
  </app-sig>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</app-sigs>
```


etrieve Application Signature by String ID

Fetches the complete detailed configuration of a specific application signature by its String ID.

URI	/api/juniper/sd/app-sig-management/v5/app-sigs/{id}
HTTP method	GET
Content-Type	None

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Accept-Type	application/json application/xml
Access-Control	manageAppSig

Sample JSON Output:


```
{
  "app-sig" : {
    "over_list" : [ "String" ],
    "pattern-sets" : {
      "pattern-set" : [ {
        "name" : "String",
        "port" : "String",
        "max-transactions" : "Integer",
        "protocol" : "String",
        "stcpattern" : "String",
        "mindata" : "Integer",
        "mindatas2c" : "Integer",
        "modified" : "String",
        "id" : "Integer",
        "uuid" : "String",
        "logic-function" : "String",
        "pattern-order" : "Integer",
        "versions" : {
          "version" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "ordered" : "Boolean",
        "ctspattern" : "String",
        "default-port" : "String",
        "members" : {
          "pattern-member" : [ {
            "pattern-order" : "Integer",
            "id" : "Integer",
            "uuid" : "String",
            "check-bytes" : "Integer",
            "pattern" : "String",
            "direction" : "String",
            "context" : "String",
            "uri" : "String"
          } ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "uri" : "String",
        "cacheable" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "domain-id" : "Integer",
    "description" : "String",
    "order" : "Integer",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
```


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```
  "created-time" : "Date",
  "last-modified-time" : "Date"
},
"id" : "Integer",
"uuid" : "String",
"aliases" : [ "String" ],
"max_transactions" : "Integer",
"group-app-members" : {
  "group-nested-member" : [ {
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "id" : "Integer",
    "uuid" : "String",
    "name" : "String",
    "app_name" : "String",
    "app_device_specific_name" : "String",
    "app_id" : "Integer",
    "description" : "String",
    "domain-id" : "Integer",
    "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "order" : "Integer",
    "max_transactions" : "Integer",
    "default-port" : "String",
    "category" : "String",
    "sub_category" : "String",
    "risk" : "String",
    "characteristic" : "String",
    "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
    "uri" : "String",
    "to" : [ "String" ],
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"disable-state" : "Boolean",
"app_name" : "String",
"name" : "String",
"app_id_version" : "int",
"device_compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"characteristic" : "String",
"sub_category" : "String",
"update_number" : "int",
"app_id" : "Integer",
"display_name" : "String",
"app-sig-tags" : [ {
  "name" : "String",
  "value" : "String",
  "uri" : "String",
  "link" : "String"
} ],
"default-port" : "String",
"priority" : [ "low", "high" ],
"address-mapping" : {
  "ip-address" : [ {
    "name" : "String",
    "tcp-port" : "String",
    "udp-port" : "String",
    "ip" : "String"
  } ]
},
"icmp-code" : "Integer",
"icmp-type" : "Integer",
```


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```
    "ip-protocol" : "Integer",
    "cacheable" : "Boolean",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "category" : "String",
    "last-modified-by-user-name" : "String",
    "domain-name" : "String",
    "risk" : "String",
    "global" : "String",
    "protocol-name" : "String",
    "app_device_specific_name" : "String",
    "edit-version" : "Integer",
    "urls" : {
      "url" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "application_refs" : [ {
      "created-by-user-name" : "String",
      "last-modified-by-user-name" : "String",
      "id" : "Integer",
      "uuid" : "String",
      "name" : "String",
      "app_name" : "String",
      "app_device_specific_name" : "String",
      "app_id" : "Integer",
      "description" : "String",
      "domain-id" : "Integer",
      "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "order" : "Integer",
      "max_transactions" : "Integer",
      "default-port" : "String",
      "category" : "String",
      "sub_category" : "String",
      "risk" : "String",
      "characteristic" : "String",
      "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
      "uri" : "String",
      "to" : [ "String" ],
      "link" : "String"
    } ],
    "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
    "link" : "String",
    "uri" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<app-sig>
  <over_list>String</over_list>
  <pattern-sets>
    <pattern-set>
      <name>String</name>
      <port>String</port>
      <max-transactions>Integer</max-transactions>
      <protocol>String</protocol>
      <stcpattern>String</stcpattern>
      <mindata>Integer</mindata>
      <mindatas2c>Integer</mindatas2c>
      <modified>String</modified>
      <id>Integer</id>
      <uuid>String</uuid>
```


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```
      <logic-function>String</logic-function>
      <pattern-order>Integer</pattern-order>
      <versions>
        <version>String</version>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </versions>
      <ordered>Boolean</ordered>
      <ctspattern>String</ctspattern>
      <default-port>String</default-port>
      <members>
        <pattern-member>
          <pattern-order>Integer</pattern-order>
          <id>Integer</id>
          <uuid>String</uuid>
          <check-bytes>Integer</check-bytes>
          <pattern>String</pattern>
          <direction>String</direction>
          <context>String</context>
          <uri>String</uri>
        </pattern-member>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </members>
      <uri>String</uri>
      <cacheable>String</cacheable>
    </pattern-set>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </pattern-sets>
  <domain-id>Integer</domain-id>
  <description>String</description>
  <order>Integer</order>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <id>Integer</id>
  <uuid>String</uuid>
  <aliases>String</aliases>
  <max_transactions>Integer</max_transactions>
  <group-app-members>
    <group-nested-member>
      <created-by-user-name>String</created-by-user-name>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <id>Integer</id>
      <uuid>String</uuid>
      <name>String</name>
      <app_name>String</app_name>
      <app_device_specific_name>String</app_device_specific_name>
      <app_id>Integer</app_id>
      <description>String</description>
      <domain-id>Integer</domain-id>
      <app_sig_type>PROTOCOL</app_sig_type>
      <app_sig_type>APPLICATION</app_sig_type>
      <app_sig_type>GROUP</app_sig_type>
      <definition_type>Hidden</definition_type>
      <definition_type>Predefined</definition_type>
      <definition_type>Custom</definition_type>
      <definition_type>All</definition_type>
```


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```
      <order>Integer</order>
      <max_transactions>Integer</max_transactions>
      <default-port>String</default-port>
      <category>String</category>
      <sub_category>String</sub_category>
      <risk>String</risk>
      <characteristic>String</characteristic>
      <device-compatibility>ALL</device-compatibility>
      <device-compatibility>X46_AND_OLDER</device-compatibility>
      <device-compatibility>X47_AND_NEWER</device-compatibility>
      <uri>String</uri>
      <to>String</to>
      <link>String</link>
    </group-nested-member>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
</group-app-members>
<disable-state>Boolean</disable-state>
<app_name>String</app_name>
<name>String</name>
<app_id_version>int</app_id_version>
<device_compatibility>ALL</device_compatibility>
<device_compatibility>X46_AND_OLDER</device_compatibility>
<device_compatibility>X47_AND_NEWER</device_compatibility>
<characteristic>String</characteristic>
<sub_category>String</sub_category>
<update_number>int</update_number>
<app_id>Integer</app_id>
<display_name>String</display_name>
<app-sig-tags>
    <name>String</name>
    <value>String</value>
    <uri>String</uri>
    <link>String</link>
</app-sig-tags>
<default-port>String</default-port>
<priority>low</priority>
<priority>high</priority>
<address-mapping>
    <ip-address>
      <name>String</name>
      <tcp-port>String</tcp-port>
      <udp-port>String</udp-port>
      <ip>String</ip>
    </ip-address>
</address-mapping>
<icmp-code>Integer</icmp-code>
<icmp-type>Integer</icmp-type>
<ip-protocol>Integer</ip-protocol>
<cacheable>Boolean</cacheable>
<definition_type>Hidden</definition_type>
<definition_type>Predefined</definition_type>
<definition_type>Custom</definition_type>
<definition_type>All</definition_type>
<category>String</category>
<last-modified-by-user-name>String</last-modified-by-user-name>
<domain-name>String</domain-name>
<risk>String</risk>
<global>String</global>
<protocol-name>String</protocol-name>
<app_device_specific_name>String</app_device_specific_name>
<edit-version>Integer</edit-version>
<urls>
    <url>String</url>
```


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```
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </urls>
  <application_refs>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <id>Integer</id>
    <uuid>String</uuid>
    <name>String</name>
    <app_name>String</app_name>
    <app_device_specific_name>String</app_device_specific_name>
    <app_id>Integer</app_id>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <app_sig_type>PROTOCOL</app_sig_type>
    <app_sig_type>APPLICATION</app_sig_type>
    <app_sig_type>GROUP</app_sig_type>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <order>Integer</order>
    <max_transactions>Integer</max_transactions>
    <default-port>String</default-port>
    <category>String</category>
    <sub_category>String</sub_category>
    <risk>String</risk>
    <characteristic>String</characteristic>
    <device-compatibility>ALL</device-compatibility>
    <device-compatibility>X46_AND_OLDER</device-compatibility>
    <device-compatibility>X47_AND_NEWER</device-compatibility>
    <uri>String</uri>
    <to>String</to>
    <link>String</link>
  </application_refs>
  <app_sig_type>PROTOCOL</app_sig_type>
  <app_sig_type>APPLICATION</app_sig_type>
  <app_sig_type>GROUP</app_sig_type>
  <link>String</link>
  <uri>String</uri>
</app-sig>
```


Retrieve Detailed Application Signatures by UUIDs

Retrieves detailed configurations of application signatures based on a list of their UUIDs.

URI	/api/juniper/sd/app-sig-management/v5/get_application_by_uuids
HTTP method	POST
Content-Type	application/json application/xml

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Accept-Type	application/json application/xml
Access-Control	manageAppSig

Sample JSON Input

```
{
  "input" : {
    "object_uuids" : [ "String" ],
    "flatten" : "boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<input>
   <object_uuids>String</object_uuids>
   <flatten>boolean</flatten>
</input>
```

Sample JSON Output:

```
{
  "output" : {
    "value" : [ {
      "over_list" : [ "String" ],
      "pattern-sets" : {
        "pattern-set" : [ {
          "name" : "String",
          "port" : "String",
          "max-transactions" : "Integer",
          "protocol" : "String",
          "stcpattern" : "String",
          "mindata" : "Integer",
          "mindatas2c" : "Integer",
          "modified" : "String",
          "id" : "Integer",
          "uuid" : "String",
          "logic-function" : "String",
          "pattern-order" : "Integer",
          "versions" : {
            "version" : [ "String" ],
            "uri" : "String",
            "totalSize" : "Integer"
          },
          "ordered" : "Boolean",
          "ctspattern" : "String",
          "default-port" : "String",
          "members" : {
            "pattern-member" : [ {
              "pattern-order" : "Integer",
              "id" : "Integer",
              "uuid" : "String",
              "check-bytes" : "Integer",
              "pattern" : "String",
```


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```
        "direction" : "String",
        "context" : "String",
        "uri" : "String"
       } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "uri" : "String",
    "cacheable" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"domain-id" : "Integer",
"description" : "String",
"order" : "Integer",
"id_perms" : {
  "created" : "String",
  "creator" : "String",
  "last_modified" : "String",
  "last-modified-by-user-name" : "String",
  "created-time" : "Date",
  "last-modified-time" : "Date"
},
"id" : "Integer",
"uuid" : "String",
"aliases" : [ "String" ],
"max_transactions" : "Integer",
"group-app-members" : {
  "group-nested-member" : [ {
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "id" : "Integer",
    "uuid" : "String",
    "name" : "String",
    "app_name" : "String",
    "app_device_specific_name" : "String",
    "app_id" : "Integer",
    "description" : "String",
    "domain-id" : "Integer",
    "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "order" : "Integer",
    "max_transactions" : "Integer",
    "default-port" : "String",
    "category" : "String",
    "sub_category" : "String",
    "risk" : "String",
    "characteristic" : "String",
    "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
    "uri" : "String",
    "to" : [ "String" ],
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"disable-state" : "Boolean",
"app_name" : "String",
"name" : "String",
"app_id_version" : "int",
"device_compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"characteristic" : "String",
"sub_category" : "String",
```


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```
"update_number" : "int",
"app_id" : "Integer",
"display_name" : "String",
"app-sig-tags" : [ {
  "name" : "String",
  "value" : "String",
  "uri" : "String",
  "link" : "String"
} ],
"default-port" : "String",
"priority" : [ "low", "high" ],
"address-mapping" : {
  "ip-address" : [ {
    "name" : "String",
    "tcp-port" : "String",
    "udp-port" : "String",
    "ip" : "String"
  } ]
},
"icmp-code" : "Integer",
"icmp-type" : "Integer",
"ip-protocol" : "Integer",
"cacheable" : "Boolean",
"definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
"category" : "String",
"last-modified-by-user-name" : "String",
"domain-name" : "String",
"risk" : "String",
"global" : "String",
"protocol-name" : "String",
"app_device_specific_name" : "String",
"edit-version" : "Integer",
"urls" : {
  "url" : [ "String" ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"application_refs" : [ {
  "created-by-user-name" : "String",
  "last-modified-by-user-name" : "String",
  "id" : "Integer",
  "uuid" : "String",
  "name" : "String",
  "app_name" : "String",
  "app_device_specific_name" : "String",
  "app_id" : "Integer",
  "description" : "String",
  "domain-id" : "Integer",
  "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
  "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "order" : "Integer",
  "max_transactions" : "Integer",
  "default-port" : "String",
  "category" : "String",
  "sub_category" : "String",
  "risk" : "String",
  "characteristic" : "String",
  "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
  "uri" : "String",
  "to" : [ "String" ],
  "link" : "String"
} ],
"app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
"link" : "String",
```


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```
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "int"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<output>
  <value>
    <over_list>String</over_list>
    <pattern-sets>
      <pattern-set>
        <name>String</name>
        <port>String</port>
        <max-transactions>Integer</max-transactions>
        <protocol>String</protocol>
        <stcpattern>String</stcpattern>
        <mindata>Integer</mindata>
        <mindatas2c>Integer</mindatas2c>
        <modified>String</modified>
        <id>Integer</id>
        <uuid>String</uuid>
        <logic-function>String</logic-function>
        <pattern-order>Integer</pattern-order>
        <versions>
          <version>String</version>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </versions>
        <ordered>Boolean</ordered>
        <ctspattern>String</ctspattern>
        <default-port>String</default-port>
        <members>
          <pattern-member>
            <pattern-order>Integer</pattern-order>
            <id>Integer</id>
            <uuid>String</uuid>
            <check-bytes>Integer</check-bytes>
            <pattern>String</pattern>
            <direction>String</direction>
            <context>String</context>
            <uri>String</uri>
          </pattern-member>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </members>
        <uri>String</uri>
        <cacheable>String</cacheable>
      </pattern-set>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </pattern-sets>
    <domain-id>Integer</domain-id>
    <description>String</description>
    <order>Integer</order>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
```


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```
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
</id_perms>
<id>Integer</id>
<uuid>String</uuid>
<aliases>String</aliases>
<max_transactions>Integer</max_transactions>
<group-app-members>
    <group-nested-member>
        <created-by-user-name>String</created-by-user-name>
        <last-modified-by-user-name>String</last-modified-by-user-name>
        <id>Integer</id>
        <uuid>String</uuid>
        <name>String</name>
        <app_name>String</app_name>
        <app_device_specific_name>String</app_device_specific_name>
        <app_id>Integer</app_id>
        <description>String</description>
        <domain-id>Integer</domain-id>
        <app_sig_type>PROTOCOL</app_sig_type>
        <app_sig_type>APPLICATION</app_sig_type>
        <app_sig_type>GROUP</app_sig_type>
        <definition_type>Hidden</definition_type>
        <definition_type>Predefined</definition_type>
        <definition_type>Custom</definition_type>
        <definition_type>All</definition_type>
        <order>Integer</order>
        <max_transactions>Integer</max_transactions>
        <default-port>String</default-port>
        <category>String</category>
        <sub_category>String</sub_category>
        <risk>String</risk>
        <characteristic>String</characteristic>
        <device-compatibility>ALL</device-compatibility>
        <device-compatibility>X46_AND_OLDER</device-compatibility>
        <device-compatibility>X47_AND_NEWER</device-compatibility>
        <uri>String</uri>
        <to>String</to>
        <link>String</link>
    </group-nested-member>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
</group-app-members>
<disable-state>Boolean</disable-state>
<app_name>String</app_name>
<name>String</name>
<app_id_version>int</app_id_version>
<device_compatibility>ALL</device_compatibility>
<device_compatibility>X46_AND_OLDER</device_compatibility>
<device_compatibility>X47_AND_NEWER</device_compatibility>
<characteristic>String</characteristic>
<sub_category>String</sub_category>
<update_number>int</update_number>
<app_id>Integer</app_id>
<display_name>String</display_name>
<app-sig-tags>
    <name>String</name>
    <value>String</value>
    <uri>String</uri>
    <link>String</link>
</app-sig-tags>
<default-port>String</default-port>
<priority>low</priority>
```


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```
<priority>high</priority>
<address-mapping>
  <ip-address>
    <name>String</name>
    <tcp-port>String</tcp-port>
    <udp-port>String</udp-port>
    <ip>String</ip>
  </ip-address>
</address-mapping>
<icmp-code>Integer</icmp-code>
<icmp-type>Integer</icmp-type>
<ip-protocol>Integer</ip-protocol>
<cacheable>Boolean</cacheable>
<definition_type>Hidden</definition_type>
<definition_type>Predefined</definition_type>
<definition_type>Custom</definition_type>
<definition_type>All</definition_type>
<category>String</category>
<last-modified-by-user-name>String</last-modified-by-user-name>
<domain-name>String</domain-name>
<risk>String</risk>
<global>String</global>
<protocol-name>String</protocol-name>
<app_device_specific_name>String</app_device_specific_name>
<edit-version>Integer</edit-version>
<urls>
  <url>String</url>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</urls>
<application_refs>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <id>Integer</id>
  <uuid>String</uuid>
  <name>String</name>
  <app_name>String</app_name>
  <app_device_specific_name>String</app_device_specific_name>
  <app_id>Integer</app_id>
  <description>String</description>
  <domain-id>Integer</domain-id>
  <app_sig_type>PROTOCOL</app_sig_type>
  <app_sig_type>APPLICATION</app_sig_type>
  <app_sig_type>GROUP</app_sig_type>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <order>Integer</order>
  <max_transactions>Integer</max_transactions>
  <default-port>String</default-port>
  <category>String</category>
  <sub_category>String</sub_category>
  <risk>String</risk>
  <characteristic>String</characteristic>
  <device-compatibility>ALL</device-compatibility>
  <device-compatibility>X46_AND_OLDER</device-compatibility>
  <device-compatibility>X47_AND_NEWER</device-compatibility>
  <uri>String</uri>
  <to>String</to>
  <link>String</link>
</application_refs>
<app_sig_type>PROTOCOL</app_sig_type>
<app_sig_type>APPLICATION</app_sig_type>
```


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```
    <app_sig_type>GROUP</app_sig_type>
    <link>String</link>
    <uri>String</uri>
  </value>
  <uri>String</uri>
  <totalSize>int</totalSize>
</output>
```

Retrieve Application Signatures by Name

Fetches a list of application signatures based on their names.

URI	/api/juniper/sd/app-sig-management/v5/app-sigs/appSigByName
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageAppSig

Sample JSON Input

```
{}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
```


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Sample JSON Output:


```
{
  "app-sigs" : {
    "app-sig" : [ {
      "over_list" : [ "String" ],
      "aliases" : [ "String" ],
      "domain-id" : "Integer",
      "description" : "String",
      "order" : "Integer",
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String",
        "last-modified-by-user-name" : "String",
        "created-time" : "Date",
        "last-modified-time" : "Date"
      },
      "id" : "Integer",
      "uuid" : "String",
      "max_transactions" : "Integer",
      "disable-state" : "Boolean",
      "app_name" : "String",
      "name" : "String",
      "app_id_version" : "int",
      "characteristic" : "String",
      "sub_category" : "String",
      "update_number" : "int",
      "app_id" : "Integer",
      "display_name" : "String",
      "default-port" : "String",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "category" : "String",
      "last-modified-by-user-name" : "String",
      "domain-name" : "String",
      "risk" : "String",
      "global" : "String",
      "protocol-name" : "String",
      "app_device_specific_name" : "String",
      "edit-version" : "Integer",
      "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
      "link" : "String",
      "uri" : "String",
      "device_compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ]
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<app-sigs>
  <app-sig>
    <over_list>String</over_list>
    <aliases>String</aliases>
    <domain-id>Integer</domain-id>
    <description>String</description>
    <order>Integer</order>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
```


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```
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <id>Integer</id>
    <uuid>String</uuid>
    <max_transactions>Integer</max_transactions>
    <disable-state>Boolean</disable-state>
    <app_name>String</app_name>
    <name>String</name>
    <app_id_version>int</app_id_version>
    <characteristic>String</characteristic>
    <sub_category>String</sub_category>
    <update_number>int</update_number>
    <app_id>Integer</app_id>
    <display_name>String</display_name>
    <default-port>String</default-port>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <category>String</category>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-name>String</domain-name>
    <risk>String</risk>
    <global>String</global>
    <protocol-name>String</protocol-name>
    <app_device_specific_name>String</app_device_specific_name>
    <edit-version>Integer</edit-version>
    <app_sig_type>PROTOCOL</app_sig_type>
    <app_sig_type>APPLICATION</app_sig_type>
    <app_sig_type>GROUP</app_sig_type>
    <link>String</link>
    <uri>String</uri>
    <device_compatibility>ALL</device_compatibility>
    <device_compatibility>X46_AND_OLDER</device_compatibility>
    <device_compatibility>X47_AND_NEWER</device_compatibility>
  </app-sig>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</app-sigs>
```


Retrieve Application Signature Management Objects by Internal IDs

Fetches application signature management objects based on a list of their internal IDs.

URI	/api/juniper/sd/app-sig-management/v5/app-sigs/appSignatureMOsByInternalIds
HTTP method	POST
Content-Type	application/json application/xml

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Accept-Type	application/json application/xml
Access-Control	manageAppSig

Sample JSON Input

```
{ }
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
```

Sample JSON Output:

```
{
  "app-sigs" : {
    "app-sig" : [ {
      "over_list" : [ "String" ],
      "aliases" : [ "String" ],
      "domain-id" : "Integer",
      "description" : "String",
      "order" : "Integer",
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String",
        "last-modified-by-user-name" : "String",
        "created-time" : "Date",
        "last-modified-time" : "Date"
      },
      "id" : "Integer",
      "uuid" : "String",
      "max_transactions" : "Integer",
      "disable-state" : "Boolean",
      "app_name" : "String",
      "name" : "String",
      "app_id_version" : "int",
      "characteristic" : "String",
      "sub_category" : "String",
      "update_number" : "int",
      "app_id" : "Integer",
      "display_name" : "String",
      "default-port" : "String",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "category" : "String",
      "last-modified-by-user-name" : "String",
      "domain-name" : "String",
```


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```
    "risk" : "String",
    "global" : "String",
    "protocol-name" : "String",
    "app_device_specific_name" : "String",
    "edit-version" : "Integer",
    "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
    "link" : "String",
    "uri" : "String",
    "device_compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ]
   } ],
   "uri" : "String",
   "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<app-sigs>
  <app-sig>
    <over_list>String</over_list>
    <aliases>String</aliases>
    <domain-id>Integer</domain-id>
    <description>String</description>
    <order>Integer</order>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <id>Integer</id>
    <uuid>String</uuid>
    <max_transactions>Integer</max_transactions>
    <disable-state>Boolean</disable-state>
    <app_name>String</app_name>
    <name>String</name>
    <app_id_version>int</app_id_version>
    <characteristic>String</characteristic>
    <sub_category>String</sub_category>
    <update_number>int</update_number>
    <app_id>Integer</app_id>
    <display_name>String</display_name>
    <default-port>String</default-port>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <category>String</category>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-name>String</domain-name>
    <risk>String</risk>
    <global>String</global>
    <protocol-name>String</protocol-name>
    <app_device_specific_name>String</app_device_specific_name>
    <edit-version>Integer</edit-version>
    <app_sig_type>PROTOCOL</app_sig_type>
    <app_sig_type>APPLICATION</app_sig_type>
    <app_sig_type>GROUP</app_sig_type>
    <link>String</link>
    <uri>String</uri>
    <device_compatibility>ALL</device_compatibility>
```


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```
    <device_compatibility>X46_AND_OLDER</device_compatibility>
    <device_compatibility>X47_AND_NEWER</device_compatibility>
  </app-sig>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</app-sigs>
```

Retrieve Custom Application Signatures by APPID Version

Fetches a list of custom application signatures based on their APPID versions.

URI	/api/juniper/sd/app-sig-management/v5/app-sigs/customAppSigs
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageAppSig

Sample JSON Input

```
{}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
```


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Sample JSON Output:


```
{
  "app-sigs" : {
    "app-sig" : [ {
      "over_list" : [ "String" ],
      "aliases" : [ "String" ],
      "domain-id" : "Integer",
      "description" : "String",
      "order" : "Integer",
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String",
        "last-modified-by-user-name" : "String",
        "created-time" : "Date",
        "last-modified-time" : "Date"
      },
      "id" : "Integer",
      "uuid" : "String",
      "max_transactions" : "Integer",
      "disable-state" : "Boolean",
      "app_name" : "String",
      "name" : "String",
      "app_id_version" : "int",
      "characteristic" : "String",
      "sub_category" : "String",
      "update_number" : "int",
      "app_id" : "Integer",
      "display_name" : "String",
      "default-port" : "String",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "category" : "String",
      "last-modified-by-user-name" : "String",
      "domain-name" : "String",
      "risk" : "String",
      "global" : "String",
      "protocol-name" : "String",
      "app_device_specific_name" : "String",
      "edit-version" : "Integer",
      "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
      "link" : "String",
      "uri" : "String",
      "device_compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ]
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<app-sigs>
  <app-sig>
    <over_list>String</over_list>
    <aliases>String</aliases>
    <domain-id>Integer</domain-id>
    <description>String</description>
    <order>Integer</order>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
```


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```
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <id>Integer</id>
    <uuid>String</uuid>
    <max_transactions>Integer</max_transactions>
    <disable-state>Boolean</disable-state>
    <app_name>String</app_name>
    <name>String</name>
    <app_id_version>int</app_id_version>
    <characteristic>String</characteristic>
    <sub_category>String</sub_category>
    <update_number>int</update_number>
    <app_id>Integer</app_id>
    <display_name>String</display_name>
    <default-port>String</default-port>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <category>String</category>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-name>String</domain-name>
    <risk>String</risk>
    <global>String</global>
    <protocol-name>String</protocol-name>
    <app_device_specific_name>String</app_device_specific_name>
    <edit-version>Integer</edit-version>
    <app_sig_type>PROTOCOL</app_sig_type>
    <app_sig_type>APPLICATION</app_sig_type>
    <app_sig_type>GROUP</app_sig_type>
    <link>String</link>
    <uri>String</uri>
    <device_compatibility>ALL</device_compatibility>
    <device_compatibility>X46_AND_OLDER</device_compatibility>
    <device_compatibility>X47_AND_NEWER</device_compatibility>
  </app-sig>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</app-sigs>
```


Retrieve Application Signatures by IDs with Group Members

Fetches detailed application signatures, including their group memberships, based on a list of IDs.

URI	/api/juniper/sd/app-sig-management/v5/app-sigs/appSigsByIdsWithGroupMembers
HTTP method	POST
Content-Type	application/json application/xml

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Accept-Type	application/json application/xml
Access-Control	manageAppSig

Sample JSON Input

```
{ }
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
```

Sample JSON Output:

```
{
  "output" : {
    "value" : [ {
      "over_list" : [ "String" ],
      "pattern-sets" : {
        "pattern-set" : [ {
          "name" : "String",
          "port" : "String",
          "max-transactions" : "Integer",
          "protocol" : "String",
          "stcpattern" : "String",
          "mindata" : "Integer",
          "mindatas2c" : "Integer",
          "modified" : "String",
          "id" : "Integer",
          "uuid" : "String",
          "logic-function" : "String",
          "pattern-order" : "Integer",
          "versions" : {
            "version" : [ "String" ],
            "uri" : "String",
            "totalSize" : "Integer"
          },
          "ordered" : "Boolean",
          "ctspattern" : "String",
          "default-port" : "String",
          "members" : {
            "pattern-member" : [ {
              "pattern-order" : "Integer",
              "id" : "Integer",
              "uuid" : "String",
              "check-bytes" : "Integer",
              "pattern" : "String",
```


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```
        "direction" : "String",
        "context" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "uri" : "String",
    "cacheable" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"domain-id" : "Integer",
"description" : "String",
"order" : "Integer",
"id_perms" : {
  "created" : "String",
  "creator" : "String",
  "last_modified" : "String",
  "last-modified-by-user-name" : "String",
  "created-time" : "Date",
  "last-modified-time" : "Date"
},
"id" : "Integer",
"uuid" : "String",
"aliases" : [ "String" ],
"max_transactions" : "Integer",
"group-app-members" : {
  "group-nested-member" : [ {
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "id" : "Integer",
    "uuid" : "String",
    "name" : "String",
    "app_name" : "String",
    "app_device_specific_name" : "String",
    "app_id" : "Integer",
    "description" : "String",
    "domain-id" : "Integer",
    "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "order" : "Integer",
    "max_transactions" : "Integer",
    "default-port" : "String",
    "category" : "String",
    "sub_category" : "String",
    "risk" : "String",
    "characteristic" : "String",
    "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
    "uri" : "String",
    "to" : [ "String" ],
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"disable-state" : "Boolean",
"app_name" : "String",
"name" : "String",
"app_id_version" : "int",
"device_compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"characteristic" : "String",
"sub_category" : "String",
```


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```
"update_number" : "int",
"app_id" : "Integer",
"display_name" : "String",
"app-sig-tags" : [ {
  "name" : "String",
  "value" : "String",
  "uri" : "String",
  "link" : "String"
} ],
"default-port" : "String",
"priority" : [ "low", "high" ],
"address-mapping" : {
  "ip-address" : [ {
    "name" : "String",
    "tcp-port" : "String",
    "udp-port" : "String",
    "ip" : "String"
  } ]
},
"icmp-code" : "Integer",
"icmp-type" : "Integer",
"ip-protocol" : "Integer",
"cacheable" : "Boolean",
"definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
"category" : "String",
"last-modified-by-user-name" : "String",
"domain-name" : "String",
"risk" : "String",
"global" : "String",
"protocol-name" : "String",
"app_device_specific_name" : "String",
"edit-version" : "Integer",
"urls" : {
  "url" : [ "String" ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"application_refs" : [ {
  "created-by-user-name" : "String",
  "last-modified-by-user-name" : "String",
  "id" : "Integer",
  "uuid" : "String",
  "name" : "String",
  "app_name" : "String",
  "app_device_specific_name" : "String",
  "app_id" : "Integer",
  "description" : "String",
  "domain-id" : "Integer",
  "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
  "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "order" : "Integer",
  "max_transactions" : "Integer",
  "default-port" : "String",
  "category" : "String",
  "sub_category" : "String",
  "risk" : "String",
  "characteristic" : "String",
  "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
  "uri" : "String",
  "to" : [ "String" ],
  "link" : "String"
} ],
"app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
"link" : "String",
```


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```
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "int"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<output>
  <value>
    <over_list>String</over_list>
    <pattern-sets>
      <pattern-set>
        <name>String</name>
        <port>String</port>
        <max-transactions>Integer</max-transactions>
        <protocol>String</protocol>
        <stcpattern>String</stcpattern>
        <mindata>Integer</mindata>
        <mindatas2c>Integer</mindatas2c>
        <modified>String</modified>
        <id>Integer</id>
        <uuid>String</uuid>
        <logic-function>String</logic-function>
        <pattern-order>Integer</pattern-order>
        <versions>
          <version>String</version>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </versions>
        <ordered>Boolean</ordered>
        <ctspattern>String</ctspattern>
        <default-port>String</default-port>
        <members>
          <pattern-member>
            <pattern-order>Integer</pattern-order>
            <id>Integer</id>
            <uuid>String</uuid>
            <check-bytes>Integer</check-bytes>
            <pattern>String</pattern>
            <direction>String</direction>
            <context>String</context>
            <uri>String</uri>
          </pattern-member>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </members>
        <uri>String</uri>
        <cacheable>String</cacheable>
      </pattern-set>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </pattern-sets>
    <domain-id>Integer</domain-id>
    <description>String</description>
    <order>Integer</order>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
```


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```
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
</id_perms>
<id>Integer</id>
<uuid>String</uuid>
<aliases>String</aliases>
<max_transactions>Integer</max_transactions>
<group-app-members>
    <group-nested-member>
        <created-by-user-name>String</created-by-user-name>
        <last-modified-by-user-name>String</last-modified-by-user-name>
        <id>Integer</id>
        <uuid>String</uuid>
        <name>String</name>
        <app_name>String</app_name>
        <app_device_specific_name>String</app_device_specific_name>
        <app_id>Integer</app_id>
        <description>String</description>
        <domain-id>Integer</domain-id>
        <app_sig_type>PROTOCOL</app_sig_type>
        <app_sig_type>APPLICATION</app_sig_type>
        <app_sig_type>GROUP</app_sig_type>
        <definition_type>Hidden</definition_type>
        <definition_type>Predefined</definition_type>
        <definition_type>Custom</definition_type>
        <definition_type>All</definition_type>
        <order>Integer</order>
        <max_transactions>Integer</max_transactions>
        <default-port>String</default-port>
        <category>String</category>
        <sub_category>String</sub_category>
        <risk>String</risk>
        <characteristic>String</characteristic>
        <device-compatibility>ALL</device-compatibility>
        <device-compatibility>X46_AND_OLDER</device-compatibility>
        <device-compatibility>X47_AND_NEWER</device-compatibility>
        <uri>String</uri>
        <to>String</to>
        <link>String</link>
    </group-nested-member>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
</group-app-members>
<disable-state>Boolean</disable-state>
<app_name>String</app_name>
<name>String</name>
<app_id_version>int</app_id_version>
<device_compatibility>ALL</device_compatibility>
<device_compatibility>X46_AND_OLDER</device_compatibility>
<device_compatibility>X47_AND_NEWER</device_compatibility>
<characteristic>String</characteristic>
<sub_category>String</sub_category>
<update_number>int</update_number>
<app_id>Integer</app_id>
<display_name>String</display_name>
<app-sig-tags>
    <name>String</name>
    <value>String</value>
    <uri>String</uri>
    <link>String</link>
</app-sig-tags>
<default-port>String</default-port>
<priority>low</priority>
```


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<priority>high</priority>
<address-mapping>
  <ip-address>
    <name>String</name>
    <tcp-port>String</tcp-port>
    <udp-port>String</udp-port>
    <ip>String</ip>
  </ip-address>
</address-mapping>
<icmp-code>Integer</icmp-code>
<icmp-type>Integer</icmp-type>
<ip-protocol>Integer</ip-protocol>
<cacheable>Boolean</cacheable>
<definition_type>Hidden</definition_type>
<definition_type>Predefined</definition_type>
<definition_type>Custom</definition_type>
<definition_type>All</definition_type>
<category>String</category>
<last-modified-by-user-name>String</last-modified-by-user-name>
<domain-name>String</domain-name>
<risk>String</risk>
<global>String</global>
<protocol-name>String</protocol-name>
<app_device_specific_name>String</app_device_specific_name>
<edit-version>Integer</edit-version>
<urls>
  <url>String</url>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</urls>
<application_refs>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <id>Integer</id>
  <uuid>String</uuid>
  <name>String</name>
  <app_name>String</app_name>
  <app_device_specific_name>String</app_device_specific_name>
  <app_id>Integer</app_id>
  <description>String</description>
  <domain-id>Integer</domain-id>
  <app_sig_type>PROTOCOL</app_sig_type>
  <app_sig_type>APPLICATION</app_sig_type>
  <app_sig_type>GROUP</app_sig_type>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <order>Integer</order>
  <max_transactions>Integer</max_transactions>
  <default-port>String</default-port>
  <category>String</category>
  <sub_category>String</sub_category>
  <risk>String</risk>
  <characteristic>String</characteristic>
  <device-compatibility>ALL</device-compatibility>
  <device-compatibility>X46_AND_OLDER</device-compatibility>
  <device-compatibility>X47_AND_NEWER</device-compatibility>
  <uri>String</uri>
  <to>String</to>
  <link>String</link>
</application_refs>
<app_sig_type>PROTOCOL</app_sig_type>
<app_sig_type>APPLICATION</app_sig_type>

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```
    <app_sig_type>GROUP</app_sig_type>
    <link>String</link>
    <uri>String</uri>
  </value>
  <uri>String</uri>
  <totalSize>int</totalSize>
</output>
```

Retrieve All Detailed Application Signatures

Fetches a paginated list of all configured application signatures, providing highly detailed information.

URI	/api/juniper/sd/app-sig-management/v5/detailed-app-sigs
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageAppSig

Sample JSON Output:

```
{
  "output" : {
    "value" : [ {
      "over_list" : [ "String" ],
      "pattern-sets" : {
        "pattern-set" : [ {
          "name" : "String",
          "port" : "String",
          "max-transactions" : "Integer",
          "protocol" : "String",
          "stcpattern" : "String",
          "mindata" : "Integer",
          "mindatas2c" : "Integer",
          "modified" : "String",
          "id" : "Integer",
          "uuid" : "String",
          "logic-function" : "String",
          "pattern-order" : "Integer",
          "versions" : {
            "version" : [ "String" ],
            "uri" : "String",
            "totalSize" : "Integer"
```


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```
    },
    "ordered" : "Boolean",
    "ctspattern" : "String",
    "default-port" : "String",
    "members" : {
      "pattern-member" : [ {
        "pattern-order" : "Integer",
        "id" : "Integer",
        "uuid" : "String",
        "check-bytes" : "Integer",
        "pattern" : "String",
        "direction" : "String",
        "context" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "uri" : "String",
    "cacheable" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"domain-id" : "Integer",
"description" : "String",
"order" : "Integer",
"id_perms" : {
  "created" : "String",
  "creator" : "String",
  "last_modified" : "String",
  "last-modified-by-user-name" : "String",
  "created-time" : "Date",
  "last-modified-time" : "Date"
},
"id" : "Integer",
"uuid" : "String",
"aliases" : [ "String" ],
"max_transactions" : "Integer",
"group-app-members" : {
  "group-nested-member" : [ {
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "id" : "Integer",
    "uuid" : "String",
    "name" : "String",
    "app_name" : "String",
    "app_device_specific_name" : "String",
    "app_id" : "Integer",
    "description" : "String",
    "domain-id" : "Integer",
    "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "order" : "Integer",
    "max_transactions" : "Integer",
    "default-port" : "String",
    "category" : "String",
    "sub_category" : "String",
    "risk" : "String",
    "characteristic" : "String",
    "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
    "uri" : "String",
    "to" : [ "String" ],
    "link" : "String"
```


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```
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"disable-state" : "Boolean",
"app_name" : "String",
"name" : "String",
"app_id_version" : "int",
"device_compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"characteristic" : "String",
"sub_category" : "String",
"update_number" : "int",
"app_id" : "Integer",
"display_name" : "String",
"app-sig-tags" : [ {
  "name" : "String",
  "value" : "String",
  "uri" : "String",
  "link" : "String"
} ],
"default-port" : "String",
"priority" : [ "low", "high" ],
"address-mapping" : {
  "ip-address" : [ {
    "name" : "String",
    "tcp-port" : "String",
    "udp-port" : "String",
    "ip" : "String"
  } ]
},
"icmp-code" : "Integer",
"icmp-type" : "Integer",
"ip-protocol" : "Integer",
"cacheable" : "Boolean",
"definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
"category" : "String",
"last-modified-by-user-name" : "String",
"domain-name" : "String",
"risk" : "String",
"global" : "String",
"protocol-name" : "String",
"app_device_specific_name" : "String",
"edit-version" : "Integer",
"urls" : {
  "url" : [ "String" ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"application_refs" : [ {
  "created-by-user-name" : "String",
  "last-modified-by-user-name" : "String",
  "id" : "Integer",
  "uuid" : "String",
  "name" : "String",
  "app_name" : "String",
  "app_device_specific_name" : "String",
  "app_id" : "Integer",
  "description" : "String",
  "domain-id" : "Integer",
  "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
  "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "order" : "Integer",
  "max_transactions" : "Integer",
  "default-port" : "String",
```


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```
      "category" : "String",
      "sub_category" : "String",
      "risk" : "String",
      "characteristic" : "String",
      "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
      "uri" : "String",
      "to" : [ "String" ],
      "link" : "String"
    } ],
    "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
    "link" : "String",
    "uri" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "int"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<output>
  <value>
    <over_list>String</over_list>
    <pattern-sets>
      <pattern-set>
        <name>String</name>
        <port>String</port>
        <max-transactions>Integer</max-transactions>
        <protocol>String</protocol>
        <stcpattern>String</stcpattern>
        <mindata>Integer</mindata>
        <mindatas2c>Integer</mindatas2c>
        <modified>String</modified>
        <id>Integer</id>
        <uuid>String</uuid>
        <logic-function>String</logic-function>
        <pattern-order>Integer</pattern-order>
        <versions>
          <version>String</version>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </versions>
        <ordered>Boolean</ordered>
        <ctspattern>String</ctspattern>
        <default-port>String</default-port>
        <members>
          <pattern-member>
            <pattern-order>Integer</pattern-order>
            <id>Integer</id>
            <uuid>String</uuid>
            <check-bytes>Integer</check-bytes>
            <pattern>String</pattern>
            <direction>String</direction>
            <context>String</context>
            <uri>String</uri>
          </pattern-member>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </members>
        <uri>String</uri>
        <cacheable>String</cacheable>
      </pattern-set>
      <uri>String</uri>
```


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```
    <totalSize>Integer</totalSize>
</pattern-sets>
<domain-id>Integer</domain-id>
<description>String</description>
<order>Integer</order>
<id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
</id_perms>
<id>Integer</id>
<uuid>String</uuid>
<aliases>String</aliases>
<max_transactions>Integer</max_transactions>
<group-app-members>
    <group-nested-member>
        <created-by-user-name>String</created-by-user-name>
        <last-modified-by-user-name>String</last-modified-by-user-name>
        <id>Integer</id>
        <uuid>String</uuid>
        <name>String</name>
        <app_name>String</app_name>
        <app_device_specific_name>String</app_device_specific_name>
        <app_id>Integer</app_id>
        <description>String</description>
        <domain-id>Integer</domain-id>
        <app_sig_type>PROTOCOL</app_sig_type>
        <app_sig_type>APPLICATION</app_sig_type>
        <app_sig_type>GROUP</app_sig_type>
        <definition_type>Hidden</definition_type>
        <definition_type>Predefined</definition_type>
        <definition_type>Custom</definition_type>
        <definition_type>All</definition_type>
        <order>Integer</order>
        <max_transactions>Integer</max_transactions>
        <default-port>String</default-port>
        <category>String</category>
        <sub_category>String</sub_category>
        <risk>String</risk>
        <characteristic>String</characteristic>
        <device-compatibility>ALL</device-compatibility>
        <device-compatibility>X46_AND_OLDER</device-compatibility>
        <device-compatibility>X47_AND_NEWER</device-compatibility>
        <uri>String</uri>
        <to>String</to>
        <link>String</link>
    </group-nested-member>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
</group-app-members>
<disable-state>Boolean</disable-state>
<app_name>String</app_name>
<name>String</name>
<app_id_version>int</app_id_version>
<device_compatibility>ALL</device_compatibility>
<device_compatibility>X46_AND_OLDER</device_compatibility>
<device_compatibility>X47_AND_NEWER</device_compatibility>
<characteristic>String</characteristic>
<sub_category>String</sub_category>
<update_number>int</update_number>
<app_id>Integer</app_id>
```


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```
<display_name>String</display_name>
<app-sig-tags>
  <name>String</name>
  <value>String</value>
  <uri>String</uri>
  <link>String</link>
</app-sig-tags>
<default-port>String</default-port>
<priority>low</priority>
<priority>high</priority>
<address-mapping>
  <ip-address>
    <name>String</name>
    <tcp-port>String</tcp-port>
    <udp-port>String</udp-port>
    <ip>String</ip>
  </ip-address>
</address-mapping>
<icmp-code>Integer</icmp-code>
<icmp-type>Integer</icmp-type>
<ip-protocol>Integer</ip-protocol>
<cacheable>Boolean</cacheable>
<definition_type>Hidden</definition_type>
<definition_type>Predefined</definition_type>
<definition_type>Custom</definition_type>
<definition_type>All</definition_type>
<category>String</category>
<last-modified-by-user-name>String</last-modified-by-user-name>
<domain-name>String</domain-name>
<risk>String</risk>
<global>String</global>
<protocol-name>String</protocol-name>
<app_device_specific_name>String</app_device_specific_name>
<edit-version>Integer</edit-version>
<urls>
  <url>String</url>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</urls>
<application_refs>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <id>Integer</id>
  <uuid>String</uuid>
  <name>String</name>
  <app_name>String</app_name>
  <app_device_specific_name>String</app_device_specific_name>
  <app_id>Integer</app_id>
  <description>String</description>
  <domain-id>Integer</domain-id>
  <app_sig_type>PROTOCOL</app_sig_type>
  <app_sig_type>APPLICATION</app_sig_type>
  <app_sig_type>GROUP</app_sig_type>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <order>Integer</order>
  <max_transactions>Integer</max_transactions>
  <default-port>String</default-port>
  <category>String</category>
  <sub_category>String</sub_category>
  <risk>String</risk>
  <characteristic>String</characteristic>
```


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```
      <device-compatibility>ALL</device-compatibility>
      <device-compatibility>X46_AND_OLDER</device-compatibility>
      <device-compatibility>X47_AND_NEWER</device-compatibility>
      <uri>String</uri>
      <to>String</to>
      <link>String</link>
    </application_refs>
    <app_sig_type>PROTOCOL</app_sig_type>
    <app_sig_type>APPLICATION</app_sig_type>
    <app_sig_type>GROUP</app_sig_type>
    <link>String</link>
    <uri>String</uri>
  </value>
  <uri>String</uri>
  <totalSize>int</totalSize>
</output>
```


Delete Application Signature

Deletes a specific application signature from the system by its String ID.

URI	/api/juniper/sd/app-sig-management/v5/app-sigs/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteAppSig

Create Application Signature

Creates a new application signature in the system, returning its UUID for HATEOAS linkage.

URI	/api/juniper/sd/app-sig-management/v5/app-sigs
HTTP method	POST

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Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	createAppSig

Sample JSON Input


```
{
  "app-sig" : {
    "over_list" : [ "String" ],
    "pattern-sets" : {
      "pattern-set" : [ {
        "name" : "String",
        "port" : "String",
        "max-transactions" : "Integer",
        "protocol" : "String",
        "stcpattern" : "String",
        "mindata" : "Integer",
        "mindatas2c" : "Integer",
        "modified" : "String",
        "id" : "Integer",
        "uuid" : "String",
        "logic-function" : "String",
        "pattern-order" : "Integer",
        "versions" : {
          "version" : [ "String" ],
          "totalSize" : "Integer"
        },
        "ordered" : "Boolean",
        "ctspattern" : "String",
        "default-port" : "String",
        "members" : {
          "pattern-member" : [ {
            "pattern-order" : "Integer",
            "id" : "Integer",
            "uuid" : "String",
            "check-bytes" : "Integer",
            "pattern" : "String",
            "direction" : "String",
            "context" : "String"
          } ],
          "totalSize" : "Integer"
        },
        "cacheable" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "description" : "String",
    "order" : "Integer",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "id" : "Integer",
```


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```
"uuid" : "String",
"aliases" : [ "String" ],
"max_transactions" : "Integer",
"group-app-members" : {
  "group-nested-member" : [ {
    "id" : "Integer",
    "uuid" : "String",
    "name" : "String",
    "app_name" : "String",
    "app_device_specific_name" : "String",
    "app_id" : "Integer",
    "description" : "String",
    "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "order" : "Integer",
    "max_transactions" : "Integer",
    "default-port" : "String",
    "category" : "String",
    "sub_category" : "String",
    "risk" : "String",
    "characteristic" : "String",
    "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
    "to" : [ "String" ]
  } ],
  "totalSize" : "Integer"
},
"disable-state" : "Boolean",
"app_name" : "String",
"name" : "String",
"app_id_version" : "int",
"device_compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"characteristic" : "String",
"sub_category" : "String",
"update_number" : "int",
"app_id" : "Integer",
"display_name" : "String",
"app-sig-tags" : [ {
  "name" : "String",
  "value" : "String"
} ],
"default-port" : "String",
"priority" : [ "low", "high" ],
"address-mapping" : {
  "ip-address" : [ {
    "name" : "String",
    "tcp-port" : "String",
    "udp-port" : "String",
    "ip" : "String"
  } ]
},
"icmp-code" : "Integer",
"icmp-type" : "Integer",
"ip-protocol" : "Integer",
"cacheable" : "Boolean",
"definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
"category" : "String",
"risk" : "String",
"protocol-name" : "String",
"app_device_specific_name" : "String",
"edit-version" : "Integer",
"urls" : {
  "url" : [ "String" ],
  "totalSize" : "Integer"
},
```


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```
    "application_refs" : [ {
      "id" : "Integer",
      "uuid" : "String",
      "name" : "String",
      "app_name" : "String",
      "app_device_specific_name" : "String",
      "app_id" : "Integer",
      "description" : "String",
      "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "order" : "Integer",
      "max_transactions" : "Integer",
      "default-port" : "String",
      "category" : "String",
      "sub_category" : "String",
      "risk" : "String",
      "characteristic" : "String",
      "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
      "to" : [ "String" ]
    } ],
    "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ]
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<app-sig>
  <over_list>String</over_list>
  <pattern-sets>
    <pattern-set>
      <name>String</name>
      <port>String</port>
      <max-transactions>Integer</max-transactions>
      <protocol>String</protocol>
      <stcpattern>String</stcpattern>
      <mindata>Integer</mindata>
      <mindatas2c>Integer</mindatas2c>
      <modified>String</modified>
      <id>Integer</id>
      <uuid>String</uuid>
      <logic-function>String</logic-function>
      <pattern-order>Integer</pattern-order>
      <versions>
        <version>String</version>
        <totalSize>Integer</totalSize>
      </versions>
      <ordered>Boolean</ordered>
      <ctspattern>String</ctspattern>
      <default-port>String</default-port>
      <members>
        <pattern-member>
          <pattern-order>Integer</pattern-order>
          <id>Integer</id>
          <uuid>String</uuid>
          <check-bytes>Integer</check-bytes>
          <pattern>String</pattern>
          <direction>String</direction>
          <context>String</context>
        </pattern-member>
        <totalSize>Integer</totalSize>
      </members>
      <cacheable>String</cacheable>
    </pattern-set>
    <totalSize>Integer</totalSize>
```


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```
</pattern-sets>
<description>String</description>
<order>Integer</order>
<id_perms>
  <created>String</created>
  <creator>String</creator>
  <last_modified>String</last_modified>
</id_perms>
<id>Integer</id>
<uuid>String</uuid>
<aliases>String</aliases>
<max_transactions>Integer</max_transactions>
<group-app-members>
  <group-nested-member>
    <id>Integer</id>
    <uuid>String</uuid>
    <name>String</name>
    <app_name>String</app_name>
    <app_device_specific_name>String</app_device_specific_name>
    <app_id>Integer</app_id>
    <description>String</description>
    <app_sig_type>PROTOCOL</app_sig_type>
    <app_sig_type>APPLICATION</app_sig_type>
    <app_sig_type>GROUP</app_sig_type>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <order>Integer</order>
    <max_transactions>Integer</max_transactions>
    <default-port>String</default-port>
    <category>String</category>
    <sub_category>String</sub_category>
    <risk>String</risk>
    <characteristic>String</characteristic>
    <device-compatibility>ALL</device-compatibility>
    <device-compatibility>X46_AND_OLDER</device-compatibility>
    <device-compatibility>X47_AND_NEWER</device-compatibility>
    <to>String</to>
  </group-nested-member>
  <totalSize>Integer</totalSize>
</group-app-members>
<disable-state>Boolean</disable-state>
<app_name>String</app_name>
<name>String</name>
<app_id_version>int</app_id_version>
<device_compatibility>ALL</device_compatibility>
<device_compatibility>X46_AND_OLDER</device_compatibility>
<device_compatibility>X47_AND_NEWER</device_compatibility>
<characteristic>String</characteristic>
<sub_category>String</sub_category>
<update_number>int</update_number>
<app_id>Integer</app_id>
<display_name>String</display_name>
<app-sig-tags>
  <name>String</name>
  <value>String</value>
</app-sig-tags>
<default-port>String</default-port>
<priority>low</priority>
<priority>high</priority>
<address-mapping>
  <ip-address>
    <name>String</name>
```


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```
        <tcp-port>String</tcp-port>
        <udp-port>String</udp-port>
        <ip>String</ip>
      </ip-address>
    </address-mapping>
    <icmp-code>Integer</icmp-code>
    <icmp-type>Integer</icmp-type>
    <ip-protocol>Integer</ip-protocol>
    <cacheable>Boolean</cacheable>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <category>String</category>
    <risk>String</risk>
    <protocol-name>String</protocol-name>
    <app_device_specific_name>String</app_device_specific_name>
    <edit-version>Integer</edit-version>
    <urls>
      <url>String</url>
      <totalSize>Integer</totalSize>
    </urls>
    <application_refs>
      <id>Integer</id>
      <uuid>String</uuid>
      <name>String</name>
      <app_name>String</app_name>
      <app_device_specific_name>String</app_device_specific_name>
      <app_id>Integer</app_id>
      <description>String</description>
      <app_sig_type>PROTOCOL</app_sig_type>
      <app_sig_type>APPLICATION</app_sig_type>
      <app_sig_type>GROUP</app_sig_type>
      <definition_type>Hidden</definition_type>
      <definition_type>Predefined</definition_type>
      <definition_type>Custom</definition_type>
      <definition_type>All</definition_type>
      <order>Integer</order>
      <max_transactions>Integer</max_transactions>
      <default-port>String</default-port>
      <category>String</category>
      <sub_category>String</sub_category>
      <risk>String</risk>
      <characteristic>String</characteristic>
      <device-compatibility>ALL</device-compatibility>
      <device-compatibility>X46_AND_OLDER</device-compatibility>
      <device-compatibility>X47_AND_NEWER</device-compatibility>
      <to>String</to>
    </application_refs>
    <app_sig_type>PROTOCOL</app_sig_type>
    <app_sig_type>APPLICATION</app_sig_type>
    <app_sig_type>GROUP</app_sig_type>
</app-sig>
```

Sample JSON Output:

```
{
  "app-sig" : {
    "over_list" : [ "String" ],
    "pattern-sets" : {
      "pattern-set" : [ {
        "name" : "String",
        "port" : "String",
        "max-transactions" : "Integer",
        "protocol" : "String",
```


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```
    "stcpattern" : "String",
    "mindata" : "Integer",
    "mindatas2c" : "Integer",
    "modified" : "String",
    "id" : "Integer",
    "uuid" : "String",
    "logic-function" : "String",
    "pattern-order" : "Integer",
    "versions" : {
      "version" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "ordered" : "Boolean",
    "ctspattern" : "String",
    "default-port" : "String",
    "members" : {
      "pattern-member" : [ {
        "pattern-order" : "Integer",
        "id" : "Integer",
        "uuid" : "String",
        "check-bytes" : "Integer",
        "pattern" : "String",
        "direction" : "String",
        "context" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "uri" : "String",
    "cacheable" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"domain-id" : "Integer",
"description" : "String",
"order" : "Integer",
"id_perms" : {
  "created" : "String",
  "creator" : "String",
  "last_modified" : "String",
  "last-modified-by-user-name" : "String",
  "created-time" : "Date",
  "last-modified-time" : "Date"
},
"id" : "Integer",
"uuid" : "String",
"aliases" : [ "String" ],
"max_transactions" : "Integer",
"group-app-members" : {
  "group-nested-member" : [ {
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "id" : "Integer",
    "uuid" : "String",
    "name" : "String",
    "app_name" : "String",
    "app_device_specific_name" : "String",
    "app_id" : "Integer",
    "description" : "String",
    "domain-id" : "Integer",
    "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
```


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```
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "order" : "Integer",
    "max_transactions" : "Integer",
    "default-port" : "String",
    "category" : "String",
    "sub_category" : "String",
    "risk" : "String",
    "characteristic" : "String",
    "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
    "uri" : "String",
    "to" : [ "String" ],
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"disable-state" : "Boolean",
"app_name" : "String",
"name" : "String",
"app_id_version" : "int",
"device_compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"characteristic" : "String",
"sub_category" : "String",
"update_number" : "int",
"app_id" : "Integer",
"display_name" : "String",
"app-sig-tags" : [ {
  "name" : "String",
  "value" : "String",
  "uri" : "String",
  "link" : "String"
} ],
"default-port" : "String",
"priority" : [ "low", "high" ],
"address-mapping" : {
  "ip-address" : [ {
    "name" : "String",
    "tcp-port" : "String",
    "udp-port" : "String",
    "ip" : "String"
  } ]
},
"icmp-code" : "Integer",
"icmp-type" : "Integer",
"ip-protocol" : "Integer",
"cacheable" : "Boolean",
"definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
"category" : "String",
"last-modified-by-user-name" : "String",
"domain-name" : "String",
"risk" : "String",
"global" : "String",
"protocol-name" : "String",
"app_device_specific_name" : "String",
"edit-version" : "Integer",
"urls" : {
  "url" : [ "String" ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"application_refs" : [ {
  "created-by-user-name" : "String",
  "last-modified-by-user-name" : "String",
  "id" : "Integer",
```


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```
    "uuid" : "String",
    "name" : "String",
    "app_name" : "String",
    "app_device_specific_name" : "String",
    "app_id" : "Integer",
    "description" : "String",
    "domain-id" : "Integer",
    "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "order" : "Integer",
    "max_transactions" : "Integer",
    "default-port" : "String",
    "category" : "String",
    "sub_category" : "String",
    "risk" : "String",
    "characteristic" : "String",
    "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
    "uri" : "String",
    "to" : [ "String" ],
    "link" : "String"
   } ],
   "app_sig_type" : [ "PROTOCOL", "APPLICATION", "GROUP" ],
   "link" : "String",
   "uri" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<app-sig>
  <over_list>String</over_list>
  <pattern-sets>
    <pattern-set>
      <name>String</name>
      <port>String</port>
      <max-transactions>Integer</max-transactions>
      <protocol>String</protocol>
      <stcpattern>String</stcpattern>
      <mindata>Integer</mindata>
      <mindatas2c>Integer</mindatas2c>
      <modified>String</modified>
      <id>Integer</id>
      <uuid>String</uuid>
      <logic-function>String</logic-function>
      <pattern-order>Integer</pattern-order>
      <versions>
        <version>String</version>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </versions>
      <ordered>Boolean</ordered>
      <ctspattern>String</ctspattern>
      <default-port>String</default-port>
      <members>
        <pattern-member>
          <pattern-order>Integer</pattern-order>
          <id>Integer</id>
          <uuid>String</uuid>
          <check-bytes>Integer</check-bytes>
          <pattern>String</pattern>
          <direction>String</direction>
          <context>String</context>
          <uri>String</uri>
```


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```
        </pattern-member>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </members>
      <uri>String</uri>
      <cacheable>String</cacheable>
    </pattern-set>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
</pattern-sets>
<domain-id>Integer</domain-id>
<description>String</description>
<order>Integer</order>
<id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
</id_perms>
<id>Integer</id>
<uuid>String</uuid>
<aliases>String</aliases>
<max_transactions>Integer</max_transactions>
<group-app-members>
    <group-nested-member>
      <created-by-user-name>String</created-by-user-name>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <id>Integer</id>
      <uuid>String</uuid>
      <name>String</name>
      <app_name>String</app_name>
      <app_device_specific_name>String</app_device_specific_name>
      <app_id>Integer</app_id>
      <description>String</description>
      <domain-id>Integer</domain-id>
      <app_sig_type>PROTOCOL</app_sig_type>
      <app_sig_type>APPLICATION</app_sig_type>
      <app_sig_type>GROUP</app_sig_type>
      <definition_type>Hidden</definition_type>
      <definition_type>Predefined</definition_type>
      <definition_type>Custom</definition_type>
      <definition_type>All</definition_type>
      <order>Integer</order>
      <max_transactions>Integer</max_transactions>
      <default-port>String</default-port>
      <category>String</category>
      <sub_category>String</sub_category>
      <risk>String</risk>
      <characteristic>String</characteristic>
      <device-compatibility>ALL</device-compatibility>
      <device-compatibility>X46_AND_OLDER</device-compatibility>
      <device-compatibility>X47_AND_NEWER</device-compatibility>
      <uri>String</uri>
      <to>String</to>
      <link>String</link>
    </group-nested-member>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
</group-app-members>
<disable-state>Boolean</disable-state>
<app_name>String</app_name>
<name>String</name>
```


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```
<app_id_version>int</app_id_version>
<device_compatibility>ALL</device_compatibility>
<device_compatibility>X46_AND_OLDER</device_compatibility>
<device_compatibility>X47_AND_NEWER</device_compatibility>
<characteristic>String</characteristic>
<sub_category>String</sub_category>
<update_number>int</update_number>
<app_id>Integer</app_id>
<display_name>String</display_name>
<app-sig-tags>
  <name>String</name>
  <value>String</value>
  <uri>String</uri>
  <link>String</link>
</app-sig-tags>
<default-port>String</default-port>
<priority>low</priority>
<priority>high</priority>
<address-mapping>
  <ip-address>
    <name>String</name>
    <tcp-port>String</tcp-port>
    <udp-port>String</udp-port>
    <ip>String</ip>
  </ip-address>
</address-mapping>
<icmp-code>Integer</icmp-code>
<icmp-type>Integer</icmp-type>
<ip-protocol>Integer</ip-protocol>
<cacheable>Boolean</cacheable>
<definition_type>Hidden</definition_type>
<definition_type>Predefined</definition_type>
<definition_type>Custom</definition_type>
<definition_type>All</definition_type>
<category>String</category>
<last-modified-by-user-name>String</last-modified-by-user-name>
<domain-name>String</domain-name>
<risk>String</risk>
<global>String</global>
<protocol-name>String</protocol-name>
<app_device_specific_name>String</app_device_specific_name>
<edit-version>Integer</edit-version>
<urls>
  <url>String</url>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</urls>
<application_refs>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <id>Integer</id>
  <uuid>String</uuid>
  <name>String</name>
  <app_name>String</app_name>
  <app_device_specific_name>String</app_device_specific_name>
  <app_id>Integer</app_id>
  <description>String</description>
  <domain-id>Integer</domain-id>
  <app_sig_type>PROTOCOL</app_sig_type>
  <app_sig_type>APPLICATION</app_sig_type>
  <app_sig_type>GROUP</app_sig_type>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
```


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```
    <definition_type>All</definition_type>
    <order>Integer</order>
    <max_transactions>Integer</max_transactions>
    <default-port>String</default-port>
    <category>String</category>
    <sub_category>String</sub_category>
    <risk>String</risk>
    <characteristic>String</characteristic>
    <device-compatibility>ALL</device-compatibility>
    <device-compatibility>X46_AND_OLDER</device-compatibility>
    <device-compatibility>X47_AND_NEWER</device-compatibility>
    <uri>String</uri>
    <to>String</to>
    <link>String</link>
  </application_refs>
  <app_sig_type>PROTOCOL</app_sig_type>
  <app_sig_type>APPLICATION</app_sig_type>
  <app_sig_type>GROUP</app_sig_type>
  <link>String</link>
  <uri>String</uri>
</app-sig>
```

Update Application Signature

Modifies an existing application signature identified by its ID.

URI	/api/juniper/sd/app-sig-management/app-sigs/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.app-sig-management.app-sig+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.app-sig-management.app-sig+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.app-sig-management.app-sig+xml;version=1;q=0.01 application/vnd.juniper.sd.app-sig-management.app-sig+json;version=1;q=0.01
Access-Control	modifyAppSig

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Sample JSON Input


```
{
  "app-sig" : {
    "over-list" : {
      "over-list" : [ "String" ],
      "totalSize" : "Integer"
    },
    "pattern-sets" : {
      "pattern-set" : [ {
        "name" : "String",
        "port" : "String",
        "max-transactions" : "Integer",
        "protocol" : "String",
        "stcpattern" : "String",
        "mindata" : "Integer",
        "mindatas2c" : "Integer",
        "modified" : "String",
        "id" : "Integer",
        "logic-function" : "String",
        "pattern-order" : "Integer",
        "versions" : {
          "version" : [ "String" ],
          "totalSize" : "Integer"
        },
        "ordered" : "Boolean",
        "ctspattern" : "String",
        "default-port" : "String",
        "members" : {
          "pattern-member" : [ {
            "pattern-order" : "Integer",
            "id" : "Integer",
            "check-bytes" : "Integer",
            "pattern" : "String",
            "direction" : "String",
            "context" : "String"
          } ],
          "totalSize" : "Integer"
        },
        "cacheable" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "description" : "String",
    "order" : "Integer",
    "id" : "Integer",
    "aliases" : {
      "alias" : [ "String" ],
      "totalSize" : "Integer"
    },
    "max_transactions" : "Integer",
    "group-app-members" : {
      "group-nested-member" : [ {
        "id" : "Integer",
        "application-name" : "String",
        "disable-state" : "Boolean",
        "name" : "String",
        "display-name" : "String",
        "app-id" : "Integer",
        "description" : "String",
        "type" : [ "protocol", "application", "group" ],
        "order" : "Integer",
        "max_transactions" : "Integer",
        "default-port" : "String",
```


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```
    "category" : "String",
    "sub-category" : "String",
    "risk" : "String",
    "characteristic" : "String",
    "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ]
  } ],
  "totalSize" : "Integer"
},
"disable-state" : "Boolean",
"name" : "String",
"app-id-version" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"characteristic" : "String",
"sub-category" : "String",
"version" : "Integer",
"app-id" : "Integer",
"display-name" : "String",
"app-sig-tags" : {
  "idp-common-value" : [ {
    "name" : "String",
    "value" : "String"
  } ],
  "totalSize" : "Integer"
},
"default-port" : "String",
"priority" : [ "low", "high" ],
"address-mapping" : {
  "ip-address" : [ {
    "name" : "String",
    "tcp-port" : "String",
    "udp-port" : "String",
    "ip" : "String"
  } ]
},
"icmp-code" : "Integer",
"icmp-type" : "Integer",
"ip-protocol" : "Integer",
"cacheable" : "Boolean",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"category" : "String",
"risk" : "String",
"protocol-name" : "String",
"application-name" : "String",
"edit-version" : "Integer",
"urls" : {
  "url" : [ "String" ],
  "totalSize" : "Integer"
},
"group-nested-members" : {
  "group-nested-member" : [ {
    "id" : "Integer",
    "application-name" : "String",
    "disable-state" : "Boolean",
    "name" : "String",
    "display-name" : "String",
    "app-id" : "Integer",
    "description" : "String",
    "type" : [ "protocol", "application", "group" ],
    "order" : "Integer",
    "max_transactions" : "Integer",
    "default-port" : "String",
    "category" : "String",
    "sub-category" : "String",
    "risk" : "String",
```


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```
      "characteristic" : "String",
      "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ]
    } ],
    "totalSize" : "Integer"
  },
  "type" : [ "protocol", "application", "group" ]
 }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<app-sig>
  <over-list>
    <over-list>String</over-list>
    <totalSize>Integer</totalSize>
  </over-list>
  <pattern-sets>
    <pattern-set>
      <name>String</name>
      <port>String</port>
      <max-transactions>Integer</max-transactions>
      <protocol>String</protocol>
      <stcpattern>String</stcpattern>
      <mindata>Integer</mindata>
      <mindatas2c>Integer</mindatas2c>
      <modified>String</modified>
      <id>Integer</id>
      <logic-function>String</logic-function>
      <pattern-order>Integer</pattern-order>
      <versions>
        <version>String</version>
        <totalSize>Integer</totalSize>
      </versions>
      <ordered>Boolean</ordered>
      <ctspattern>String</ctspattern>
      <default-port>String</default-port>
      <members>
        <pattern-member>
          <pattern-order>Integer</pattern-order>
          <id>Integer</id>
          <check-bytes>Integer</check-bytes>
          <pattern>String</pattern>
          <direction>String</direction>
          <context>String</context>
        </pattern-member>
        <totalSize>Integer</totalSize>
      </members>
      <cacheable>String</cacheable>
    </pattern-set>
    <totalSize>Integer</totalSize>
  </pattern-sets>
  <description>String</description>
  <order>Integer</order>
  <id>Integer</id>
  <aliases>
    <alias>String</alias>
    <totalSize>Integer</totalSize>
  </aliases>
  <max_transactions>Integer</max_transactions>
  <group-app-members>
    <group-nested-member>
      <id>Integer</id>
      <application-name>String</application-name>
```


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```
      <disable-state>Boolean</disable-state>
      <name>String</name>
      <display-name>String</display-name>
      <app-id>Integer</app-id>
      <description>String</description>
      <type>protocol</type>
      <type>application</type>
      <type>group</type>
      <order>Integer</order>
      <max_transactions>Integer</max_transactions>
      <default-port>String</default-port>
      <category>String</category>
      <sub-category>String</sub-category>
      <risk>String</risk>
      <characteristic>String</characteristic>
      <device-compatibility>ALL</device-compatibility>
      <device-compatibility>X46_AND_OLDER</device-compatibility>
      <device-compatibility>X47_AND_NEWER</device-compatibility>
    </group-nested-member>
    <totalSize>Integer</totalSize>
</group-app-members>
<disable-state>Boolean</disable-state>
<name>String</name>
<app-id-version>ALL</app-id-version>
<app-id-version>X46_AND_OLDER</app-id-version>
<app-id-version>X47_AND_NEWER</app-id-version>
<device-compatibility>ALL</device-compatibility>
<device-compatibility>X46_AND_OLDER</device-compatibility>
<device-compatibility>X47_AND_NEWER</device-compatibility>
<characteristic>String</characteristic>
<sub-category>String</sub-category>
<version>Integer</version>
<app-id>Integer</app-id>
<display-name>String</display-name>
<app-sig-tags>
  <idp-common-value>
    <name>String</name>
    <value>String</value>
  </idp-common-value>
  <totalSize>Integer</totalSize>
</app-sig-tags>
<default-port>String</default-port>
<priority>low</priority>
<priority>high</priority>
<address-mapping>
  <ip-address>
    <name>String</name>
    <tcp-port>String</tcp-port>
    <udp-port>String</udp-port>
    <ip>String</ip>
  </ip-address>
</address-mapping>
<icmp-code>Integer</icmp-code>
<icmp-type>Integer</icmp-type>
<ip-protocol>Integer</ip-protocol>
<cacheable>Boolean</cacheable>
<definition-type>Hidden</definition-type>
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
<definition-type>All</definition-type>
<category>String</category>
<risk>String</risk>
<protocol-name>String</protocol-name>
<application-name>String</application-name>
```


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```
  <edit-version>Integer</edit-version>
  <urls>
    <url>String</url>
    <totalSize>Integer</totalSize>
  </urls>
  <group-nested-members>
    <group-nested-member>
      <id>Integer</id>
      <application-name>String</application-name>
      <disable-state>Boolean</disable-state>
      <name>String</name>
      <display-name>String</display-name>
      <app-id>Integer</app-id>
      <description>String</description>
      <type>protocol</type>
      <type>application</type>
      <type>group</type>
      <order>Integer</order>
      <max_transactions>Integer</max_transactions>
      <default-port>String</default-port>
      <category>String</category>
      <sub-category>String</sub-category>
      <risk>String</risk>
      <characteristic>String</characteristic>
      <device-compatibility>ALL</device-compatibility>
      <device-compatibility>X46_AND_OLDER</device-compatibility>
      <device-compatibility>X47_AND_NEWER</device-compatibility>
    </group-nested-member>
    <totalSize>Integer</totalSize>
  </group-nested-members>
  <type>protocol</type>
  <type>application</type>
  <type>group</type>
</app-sig>
```

Sample JSON Output:

```
{
  "app-sig" : {
    "over-list" : {
      "over-list" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "pattern-sets" : {
      "pattern-set" : [ {
        "name" : "String",
        "port" : "String",
        "max-transactions" : "Integer",
        "protocol" : "String",
        "stcpattern" : "String",
        "mindata" : "Integer",
        "mindatas2c" : "Integer",
        "modified" : "String",
        "id" : "Integer",
        "logic-function" : "String",
        "pattern-order" : "Integer",
        "versions" : {
          "version" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "ordered" : "Boolean",
        "ctspattern" : "String",
        "default-port" : "String",
        "members" : {
```


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```
      "pattern-member" : [ {
        "pattern-order" : "Integer",
        "id" : "Integer",
        "check-bytes" : "Integer",
        "pattern" : "String",
        "direction" : "String",
        "context" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "uri" : "String",
    "cacheable" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"domain-id" : "Integer",
"description" : "String",
"order" : "Integer",
"id" : "Integer",
"aliases" : {
  "alias" : [ "String" ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"max_transactions" : "Integer",
"group-app-members" : {
  "group-nested-member" : [ {
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "id" : "Integer",
    "application-name" : "String",
    "disable-state" : "Boolean",
    "name" : "String",
    "display-name" : "String",
    "app-id" : "Integer",
    "description" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "type" : [ "protocol", "application", "group" ],
    "order" : "Integer",
    "max_transactions" : "Integer",
    "default-port" : "String",
    "category" : "String",
    "sub-category" : "String",
    "risk" : "String",
    "characteristic" : "String",
    "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"disable-state" : "Boolean",
"created-by-user-name" : "String",
"last-modified-time" : "Date",
"name" : "String",
"app-id-version" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"characteristic" : "String",
"sub-category" : "String",
```


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```
"version" : "Integer",
"app-id" : "Integer",
"display-name" : "String",
"app-sig-tags" : {
  "idp-common-value" : [ {
    "name" : "String",
    "value" : "String",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"default-port" : "String",
"priority" : [ "low", "high" ],
"address-mapping" : {
  "ip-address" : [ {
    "name" : "String",
    "tcp-port" : "String",
    "udp-port" : "String",
    "ip" : "String"
  } ]
},
"icmp-code" : "Integer",
"icmp-type" : "Integer",
"ip-protocol" : "Integer",
"cacheable" : "Boolean",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"category" : "String",
"last-modified-by-user-name" : "String",
"domain-name" : "String",
"risk" : "String",
"global" : "String",
"protocol-name" : "String",
"application-name" : "String",
"edit-version" : "Integer",
"urls" : {
  "url" : [ "String" ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"group-nested-members" : {
  "group-nested-member" : [ {
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "id" : "Integer",
    "application-name" : "String",
    "disable-state" : "Boolean",
    "name" : "String",
    "display-name" : "String",
    "app-id" : "Integer",
    "description" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "type" : [ "protocol", "application", "group" ],
    "order" : "Integer",
    "max_transactions" : "Integer",
    "default-port" : "String",
    "category" : "String",
    "sub-category" : "String",
    "risk" : "String",
    "characteristic" : "String",
    "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
    "uri" : "String",
```


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```
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  },
  "type" : [ "protocol", "application", "group" ],
  "link" : "String",
  "uri" : "String"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<app-sig>
  <over-list>
    <over-list>String</over-list>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </over-list>
  <pattern-sets>
    <pattern-set>
      <name>String</name>
      <port>String</port>
      <max-transactions>Integer</max-transactions>
      <protocol>String</protocol>
      <stcpattern>String</stcpattern>
      <mindata>Integer</mindata>
      <mindatas2c>Integer</mindatas2c>
      <modified>String</modified>
      <id>Integer</id>
      <logic-function>String</logic-function>
      <pattern-order>Integer</pattern-order>
      <versions>
        <version>String</version>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </versions>
      <ordered>Boolean</ordered>
      <ctspattern>String</ctspattern>
      <default-port>String</default-port>
      <members>
        <pattern-member>
          <pattern-order>Integer</pattern-order>
          <id>Integer</id>
          <check-bytes>Integer</check-bytes>
          <pattern>String</pattern>
          <direction>String</direction>
          <context>String</context>
          <uri>String</uri>
        </pattern-member>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </members>
      <uri>String</uri>
      <cacheable>String</cacheable>
    </pattern-set>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </pattern-sets>
  <domain-id>Integer</domain-id>
  <description>String</description>
  <order>Integer</order>
  <id>Integer</id>
```


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```
<aliases>
  <alias>String</alias>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</aliases>
<max_transactions>Integer</max_transactions>
<group-app-members>
  <group-nested-member>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <id>Integer</id>
    <application-name>String</application-name>
    <disable-state>Boolean</disable-state>
    <name>String</name>
    <display-name>String</display-name>
    <app-id>Integer</app-id>
    <description>String</description>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <type>protocol</type>
    <type>application</type>
    <type>group</type>
    <order>Integer</order>
    <max_transactions>Integer</max_transactions>
    <default-port>String</default-port>
    <category>String</category>
    <sub-category>String</sub-category>
    <risk>String</risk>
    <characteristic>String</characteristic>
    <device-compatibility>ALL</device-compatibility>
    <device-compatibility>X46_AND_OLDER</device-compatibility>
    <device-compatibility>X47_AND_NEWER</device-compatibility>
    <uri>String</uri>
    <link>String</link>
  </group-nested-member>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</group-app-members>
<disable-state>Boolean</disable-state>
<created-by-user-name>String</created-by-user-name>
<last-modified-time>Date</last-modified-time>
<name>String</name>
<app-id-version>ALL</app-id-version>
<app-id-version>X46_AND_OLDER</app-id-version>
<app-id-version>X47_AND_NEWER</app-id-version>
<device-compatibility>ALL</device-compatibility>
<device-compatibility>X46_AND_OLDER</device-compatibility>
<device-compatibility>X47_AND_NEWER</device-compatibility>
<characteristic>String</characteristic>
<sub-category>String</sub-category>
<version>Integer</version>
<app-id>Integer</app-id>
<display-name>String</display-name>
<app-sig-tags>
  <idp-common-value>
    <name>String</name>
    <value>String</value>
    <uri>String</uri>
    <link>String</link>
  </idp-common-value>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</app-sig-tags>
<default-port>String</default-port>
```


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```
<priority>low</priority>
<priority>high</priority>
<address-mapping>
  <ip-address>
    <name>String</name>
    <tcp-port>String</tcp-port>
    <udp-port>String</udp-port>
    <ip>String</ip>
  </ip-address>
</address-mapping>
<icmp-code>Integer</icmp-code>
<icmp-type>Integer</icmp-type>
<ip-protocol>Integer</ip-protocol>
<cacheable>Boolean</cacheable>
<definition-type>Hidden</definition-type>
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
<definition-type>All</definition-type>
<category>String</category>
<last-modified-by-user-name>String</last-modified-by-user-name>
<domain-name>String</domain-name>
<risk>String</risk>
<global>String</global>
<protocol-name>String</protocol-name>
<application-name>String</application-name>
<edit-version>Integer</edit-version>
<urls>
  <url>String</url>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</urls>
<group-nested-members>
  <group-nested-member>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <id>Integer</id>
    <application-name>String</application-name>
    <disable-state>Boolean</disable-state>
    <name>String</name>
    <display-name>String</display-name>
    <app-id>Integer</app-id>
    <description>String</description>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <type>protocol</type>
    <type>application</type>
    <type>group</type>
    <order>Integer</order>
    <max_transactions>Integer</max_transactions>
    <default-port>String</default-port>
    <category>String</category>
    <sub-category>String</sub-category>
    <risk>String</risk>
    <characteristic>String</characteristic>
    <device-compatibility>ALL</device-compatibility>
    <device-compatibility>X46_AND_OLDER</device-compatibility>
    <device-compatibility>X47_AND_NEWER</device-compatibility>
    <uri>String</uri>
    <link>String</link>
  </group-nested-member>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</group-nested-members>
<type>protocol</type>
```


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```
  <type>application</type>
  <type>group</type>
  <link>String</link>
  <uri>String</uri>
</app-sig>
```

Retrieve Application Signature by ID

Fetches the complete detailed configuration of a specific application signature by its ID.

URI	/api/juniper/sd/app-sig-management/app-sigs/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.app-sig-management.app-sig+xml;version=1;q=0.01 application/vnd.juniper.sd.app-sig-management.app-sig+json;version=1;q=0.01
Access-Control	manageAppSig

Sample JSON Output:


```
{
  "app-sig" : {
    "over-list" : {
      "over-list" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "pattern-sets" : {
      "pattern-set" : [ {
        "name" : "String",
        "port" : "String",
        "max-transactions" : "Integer",
        "protocol" : "String",
        "stcpattern" : "String",
        "mindata" : "Integer",
        "mindatas2c" : "Integer",
        "modified" : "String",
        "id" : "Integer",
        "logic-function" : "String",
```


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```
    "pattern-order" : "Integer",
    "versions" : {
      "version" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "ordered" : "Boolean",
    "ctspattern" : "String",
    "default-port" : "String",
    "members" : {
      "pattern-member" : [ {
        "pattern-order" : "Integer",
        "id" : "Integer",
        "check-bytes" : "Integer",
        "pattern" : "String",
        "direction" : "String",
        "context" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "uri" : "String",
    "cacheable" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"domain-id" : "Integer",
"description" : "String",
"order" : "Integer",
"id" : "Integer",
"aliases" : {
  "alias" : [ "String" ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"max_transactions" : "Integer",
"group-app-members" : {
  "group-nested-member" : [ {
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "id" : "Integer",
    "application-name" : "String",
    "disable-state" : "Boolean",
    "name" : "String",
    "display-name" : "String",
    "app-id" : "Integer",
    "description" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "type" : [ "protocol", "application", "group" ],
    "order" : "Integer",
    "max_transactions" : "Integer",
    "default-port" : "String",
    "category" : "String",
    "sub-category" : "String",
    "risk" : "String",
    "characteristic" : "String",
    "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
```


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```
  "totalSize" : "Integer"
},
"disable-state" : "Boolean",
"created-by-user-name" : "String",
"last-modified-time" : "Date",
"name" : "String",
"app-id-version" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"characteristic" : "String",
"sub-category" : "String",
"version" : "Integer",
"app-id" : "Integer",
"display-name" : "String",
"app-sig-tags" : {
  "idp-common-value" : [ {
    "name" : "String",
    "value" : "String",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"default-port" : "String",
"priority" : [ "low", "high" ],
"address-mapping" : {
  "ip-address" : [ {
    "name" : "String",
    "tcp-port" : "String",
    "udp-port" : "String",
    "ip" : "String"
  } ]
},
"icmp-code" : "Integer",
"icmp-type" : "Integer",
"ip-protocol" : "Integer",
"cacheable" : "Boolean",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"category" : "String",
"last-modified-by-user-name" : "String",
"domain-name" : "String",
"risk" : "String",
"global" : "String",
"protocol-name" : "String",
"application-name" : "String",
"edit-version" : "Integer",
"urls" : {
  "url" : [ "String" ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"group-nested-members" : {
  "group-nested-member" : [ {
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "id" : "Integer",
    "application-name" : "String",
    "disable-state" : "Boolean",
    "name" : "String",
    "display-name" : "String",
    "app-id" : "Integer",
    "description" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
```


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```
      "type" : [ "protocol", "application", "group" ],
      "order" : "Integer",
      "max_transactions" : "Integer",
      "default-port" : "String",
      "category" : "String",
      "sub-category" : "String",
      "risk" : "String",
      "characteristic" : "String",
      "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
      "uri" : "String",
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  },
  "type" : [ "protocol", "application", "group" ],
  "link" : "String",
  "uri" : "String"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<app-sig>
  <over-list>
    <over-list>String</over-list>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </over-list>
  <pattern-sets>
    <pattern-set>
      <name>String</name>
      <port>String</port>
      <max-transactions>Integer</max-transactions>
      <protocol>String</protocol>
      <stcpattern>String</stcpattern>
      <mindata>Integer</mindata>
      <mindatas2c>Integer</mindatas2c>
      <modified>String</modified>
      <id>Integer</id>
      <logic-function>String</logic-function>
      <pattern-order>Integer</pattern-order>
      <versions>
        <version>String</version>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </versions>
      <ordered>Boolean</ordered>
      <ctspattern>String</ctspattern>
      <default-port>String</default-port>
      <members>
        <pattern-member>
          <pattern-order>Integer</pattern-order>
          <id>Integer</id>
          <check-bytes>Integer</check-bytes>
          <pattern>String</pattern>
          <direction>String</direction>
          <context>String</context>
          <uri>String</uri>
        </pattern-member>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </members>
```


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```
      <uri>String</uri>
      <cacheable>String</cacheable>
    </pattern-set>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
</pattern-sets>
<domain-id>Integer</domain-id>
<description>String</description>
<order>Integer</order>
<id>Integer</id>
<aliases>
    <alias>String</alias>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
</aliases>
<max_transactions>Integer</max_transactions>
<group-app-members>
    <group-nested-member>
      <created-by-user-name>String</created-by-user-name>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <id>Integer</id>
      <application-name>String</application-name>
      <disable-state>Boolean</disable-state>
      <name>String</name>
      <display-name>String</display-name>
      <app-id>Integer</app-id>
      <description>String</description>
      <domain-name>String</domain-name>
      <domain-id>Integer</domain-id>
      <type>protocol</type>
      <type>application</type>
      <type>group</type>
      <order>Integer</order>
      <max_transactions>Integer</max_transactions>
      <default-port>String</default-port>
      <category>String</category>
      <sub-category>String</sub-category>
      <risk>String</risk>
      <characteristic>String</characteristic>
      <device-compatibility>ALL</device-compatibility>
      <device-compatibility>X46_AND_OLDER</device-compatibility>
      <device-compatibility>X47_AND_NEWER</device-compatibility>
      <uri>String</uri>
      <link>String</link>
    </group-nested-member>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
</group-app-members>
<disable-state>Boolean</disable-state>
<created-by-user-name>String</created-by-user-name>
<last-modified-time>Date</last-modified-time>
<name>String</name>
<app-id-version>ALL</app-id-version>
<app-id-version>X46_AND_OLDER</app-id-version>
<app-id-version>X47_AND_NEWER</app-id-version>
<device-compatibility>ALL</device-compatibility>
<device-compatibility>X46_AND_OLDER</device-compatibility>
<device-compatibility>X47_AND_NEWER</device-compatibility>
<characteristic>String</characteristic>
<sub-category>String</sub-category>
<version>Integer</version>
<app-id>Integer</app-id>
<display-name>String</display-name>
<app-sig-tags>
```


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```
    <idp-common-value>
      <name>String</name>
      <value>String</value>
      <uri>String</uri>
      <link>String</link>
    </idp-common-value>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </app-sig-tags>
  <default-port>String</default-port>
  <priority>low</priority>
  <priority>high</priority>
  <address-mapping>
    <ip-address>
      <name>String</name>
      <tcp-port>String</tcp-port>
      <udp-port>String</udp-port>
      <ip>String</ip>
    </ip-address>
  </address-mapping>
  <icmp-code>Integer</icmp-code>
  <icmp-type>Integer</icmp-type>
  <ip-protocol>Integer</ip-protocol>
  <cacheable>Boolean</cacheable>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <category>String</category>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-name>String</domain-name>
  <risk>String</risk>
  <global>String</global>
  <protocol-name>String</protocol-name>
  <application-name>String</application-name>
  <edit-version>Integer</edit-version>
  <urls>
    <url>String</url>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </urls>
  <group-nested-members>
    <group-nested-member>
      <created-by-user-name>String</created-by-user-name>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <id>Integer</id>
      <application-name>String</application-name>
      <disable-state>Boolean</disable-state>
      <name>String</name>
      <display-name>String</display-name>
      <app-id>Integer</app-id>
      <description>String</description>
      <domain-name>String</domain-name>
      <domain-id>Integer</domain-id>
      <type>protocol</type>
      <type>application</type>
      <type>group</type>
      <order>Integer</order>
      <max_transactions>Integer</max_transactions>
      <default-port>String</default-port>
      <category>String</category>
      <sub-category>String</sub-category>
      <risk>String</risk>
      <characteristic>String</characteristic>
```


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```
      <device-compatibility>ALL</device-compatibility>
      <device-compatibility>X46_AND_OLDER</device-compatibility>
      <device-compatibility>X47_AND_NEWER</device-compatibility>
      <uri>String</uri>
      <link>String</link>
    </group-nested-member>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </group-nested-members>
  <type>protocol</type>
  <type>application</type>
  <type>group</type>
  <link>String</link>
  <uri>String</uri>
</app-sig>
```

Retrieve All Application Signature References

Fetches a paginated list of references to all configured application signatures.

URI	/api/juniper/sd/app-sig-management/app-sigs
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.app-sig-management.app-sig-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.app-sig-management.app-sig-refs+json;version=1;q=0.01
Access-Control	manageAppSig

Sample JSON Output:

```
{
  "app-sigs" : {
    "app-sig" : [ {
      "id" : "Integer",
      "description" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "domain-name" : "String",
      "type" : [ "protocol", "application", "group" ],
      "category" : "String",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "display-name" : "String",
      "app-id-version" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
```


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```
      "link" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<app-sigs>
  <app-sig>
    <id>Integer</id>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <domain-name>String</domain-name>
    <type>protocol</type>
    <type>application</type>
    <type>group</type>
    <category>String</category>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <display-name>String</display-name>
    <app-id-version>ALL</app-id-version>
    <app-id-version>X46_AND_OLDER</app-id-version>
    <app-id-version>X47_AND_NEWER</app-id-version>
    <link>String</link>
    <uri>String</uri>
  </app-sig>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</app-sigs>
```


Delete Application Signature

Deletes a specific application signature from the system by its ID.

URI	/api/juniper/sd/app-sig-management/app-sigs/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None

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Access-Control	deleteAppSig

Create Application Signature

Creates a new application signature in the system.

URI	/api/juniper/sd/app-sig-management/app-sigs
HTTP method	POST
Content-Type	application/vnd.juniper.sd.app-sig-management.app-sig+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.app-sig-management.app-sig+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.app-sig-management.app-sig+xml;version=1;q=0.01 application/vnd.juniper.sd.app-sig-management.app-sig+json;version=1;q=0.01
Access-Control	createAppSig

Sample JSON Input

```
{
  "app-sig" : {
    "over-list" : {
      "over-list" : [ "String" ],
      "totalSize" : "Integer"
    },
    "pattern-sets" : {
      "pattern-set" : [ {
        "name" : "String",
        "port" : "String",
        "max-transactions" : "Integer",
        "protocol" : "String",
        "stcpattern" : "String",
        "mindata" : "Integer",
        "mindatas2c" : "Integer",
        "modified" : "String",
        "id" : "Integer",
        "logic-function" : "String",
        "pattern-order" : "Integer",
        "versions" : {
          "version" : [ "String" ],
          "totalSize" : "Integer"
```


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```
    },
    "ordered" : "Boolean",
    "ctspattern" : "String",
    "default-port" : "String",
    "members" : {
      "pattern-member" : [ {
        "pattern-order" : "Integer",
        "id" : "Integer",
        "check-bytes" : "Integer",
        "pattern" : "String",
        "direction" : "String",
        "context" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "cacheable" : "String"
  } ],
  "totalSize" : "Integer"
},
"description" : "String",
"order" : "Integer",
"id" : "Integer",
"aliases" : {
  "alias" : [ "String" ],
  "totalSize" : "Integer"
},
"max_transactions" : "Integer",
"group-app-members" : {
  "group-nested-member" : [ {
    "id" : "Integer",
    "application-name" : "String",
    "disable-state" : "Boolean",
    "name" : "String",
    "display-name" : "String",
    "app-id" : "Integer",
    "description" : "String",
    "type" : [ "protocol", "application", "group" ],
    "order" : "Integer",
    "max_transactions" : "Integer",
    "default-port" : "String",
    "category" : "String",
    "sub-category" : "String",
    "risk" : "String",
    "characteristic" : "String",
    "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ]
  } ],
  "totalSize" : "Integer"
},
"disable-state" : "Boolean",
"name" : "String",
"app-id-version" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"characteristic" : "String",
"sub-category" : "String",
"version" : "Integer",
"app-id" : "Integer",
"display-name" : "String",
"app-sig-tags" : {
  "idp-common-value" : [ {
    "name" : "String",
    "value" : "String"
  } ],
  "totalSize" : "Integer"
},
```


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```
    "default-port" : "String",
    "priority" : [ "low", "high" ],
    "address-mapping" : {
      "ip-address" : [ {
        "name" : "String",
        "tcp-port" : "String",
        "udp-port" : "String",
        "ip" : "String"
      } ]
    },
    "icmp-code" : "Integer",
    "icmp-type" : "Integer",
    "ip-protocol" : "Integer",
    "cacheable" : "Boolean",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "category" : "String",
    "risk" : "String",
    "protocol-name" : "String",
    "application-name" : "String",
    "edit-version" : "Integer",
    "urls" : {
      "url" : [ "String" ],
      "totalSize" : "Integer"
    },
    "group-nested-members" : {
      "group-nested-member" : [ {
        "id" : "Integer",
        "application-name" : "String",
        "disable-state" : "Boolean",
        "name" : "String",
        "display-name" : "String",
        "app-id" : "Integer",
        "description" : "String",
        "type" : [ "protocol", "application", "group" ],
        "order" : "Integer",
        "max_transactions" : "Integer",
        "default-port" : "String",
        "category" : "String",
        "sub-category" : "String",
        "risk" : "String",
        "characteristic" : "String",
        "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ]
      } ],
      "totalSize" : "Integer"
    },
    "type" : [ "protocol", "application", "group" ]
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<app-sig>
  <over-list>
    <over-list>String</over-list>
    <totalSize>Integer</totalSize>
  </over-list>
  <pattern-sets>
    <pattern-set>
      <name>String</name>
      <port>String</port>
      <max-transactions>Integer</max-transactions>
      <protocol>String</protocol>
      <stcpattern>String</stcpattern>
      <mindata>Integer</mindata>
      <mindatas2c>Integer</mindatas2c>
```


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```
      <modified>String</modified>
      <id>Integer</id>
      <logic-function>String</logic-function>
      <pattern-order>Integer</pattern-order>
      <versions>
        <version>String</version>
        <totalSize>Integer</totalSize>
      </versions>
      <ordered>Boolean</ordered>
      <ctspattern>String</ctspattern>
      <default-port>String</default-port>
      <members>
        <pattern-member>
          <pattern-order>Integer</pattern-order>
          <id>Integer</id>
          <check-bytes>Integer</check-bytes>
          <pattern>String</pattern>
          <direction>String</direction>
          <context>String</context>
        </pattern-member>
        <totalSize>Integer</totalSize>
      </members>
      <cacheable>String</cacheable>
    </pattern-set>
    <totalSize>Integer</totalSize>
  </pattern-sets>
  <description>String</description>
  <order>Integer</order>
  <id>Integer</id>
  <aliases>
    <alias>String</alias>
    <totalSize>Integer</totalSize>
  </aliases>
  <max_transactions>Integer</max_transactions>
  <group-app-members>
    <group-nested-member>
      <id>Integer</id>
      <application-name>String</application-name>
      <disable-state>Boolean</disable-state>
      <name>String</name>
      <display-name>String</display-name>
      <app-id>Integer</app-id>
      <description>String</description>
      <type>protocol</type>
      <type>application</type>
      <type>group</type>
      <order>Integer</order>
      <max_transactions>Integer</max_transactions>
      <default-port>String</default-port>
      <category>String</category>
      <sub-category>String</sub-category>
      <risk>String</risk>
      <characteristic>String</characteristic>
      <device-compatibility>ALL</device-compatibility>
      <device-compatibility>X46_AND_OLDER</device-compatibility>
      <device-compatibility>X47_AND_NEWER</device-compatibility>
    </group-nested-member>
    <totalSize>Integer</totalSize>
  </group-app-members>
  <disable-state>Boolean</disable-state>
  <name>String</name>
  <app-id-version>ALL</app-id-version>
  <app-id-version>X46_AND_OLDER</app-id-version>
  <app-id-version>X47_AND_NEWER</app-id-version>
```


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```
<device-compatibility>ALL</device-compatibility>
<device-compatibility>X46_AND_OLDER</device-compatibility>
<device-compatibility>X47_AND_NEWER</device-compatibility>
<characteristic>String</characteristic>
<sub-category>String</sub-category>
<version>Integer</version>
<app-id>Integer</app-id>
<display-name>String</display-name>
<app-sig-tags>
  <idp-common-value>
    <name>String</name>
    <value>String</value>
  </idp-common-value>
  <totalSize>Integer</totalSize>
</app-sig-tags>
<default-port>String</default-port>
<priority>low</priority>
<priority>high</priority>
<address-mapping>
  <ip-address>
    <name>String</name>
    <tcp-port>String</tcp-port>
    <udp-port>String</udp-port>
    <ip>String</ip>
  </ip-address>
</address-mapping>
<icmp-code>Integer</icmp-code>
<icmp-type>Integer</icmp-type>
<ip-protocol>Integer</ip-protocol>
<cacheable>Boolean</cacheable>
<definition-type>Hidden</definition-type>
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
<definition-type>All</definition-type>
<category>String</category>
<risk>String</risk>
<protocol-name>String</protocol-name>
<application-name>String</application-name>
<edit-version>Integer</edit-version>
<urls>
  <url>String</url>
  <totalSize>Integer</totalSize>
</urls>
<group-nested-members>
  <group-nested-member>
    <id>Integer</id>
    <application-name>String</application-name>
    <disable-state>Boolean</disable-state>
    <name>String</name>
    <display-name>String</display-name>
    <app-id>Integer</app-id>
    <description>String</description>
    <type>protocol</type>
    <type>application</type>
    <type>group</type>
    <order>Integer</order>
    <max_transactions>Integer</max_transactions>
    <default-port>String</default-port>
    <category>String</category>
    <sub-category>String</sub-category>
    <risk>String</risk>
    <characteristic>String</characteristic>
    <device-compatibility>ALL</device-compatibility>
    <device-compatibility>X46_AND_OLDER</device-compatibility>
```


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```
      <device-compatibility>X47_AND_NEWER</device-compatibility>
    </group-nested-member>
    <totalSize>Integer</totalSize>
  </group-nested-members>
  <type>protocol</type>
  <type>application</type>
  <type>group</type>
</app-sig>
```

Sample JSON Output:

```
{
  "app-sig" : {
    "over-list" : {
      "over-list" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "pattern-sets" : {
      "pattern-set" : [ {
        "name" : "String",
        "port" : "String",
        "max-transactions" : "Integer",
        "protocol" : "String",
        "stcpattern" : "String",
        "mindata" : "Integer",
        "mindatas2c" : "Integer",
        "modified" : "String",
        "id" : "Integer",
        "logic-function" : "String",
        "pattern-order" : "Integer",
        "versions" : {
          "version" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "ordered" : "Boolean",
        "ctspattern" : "String",
        "default-port" : "String",
        "members" : {
          "pattern-member" : [ {
            "pattern-order" : "Integer",
            "id" : "Integer",
            "check-bytes" : "Integer",
            "pattern" : "String",
            "direction" : "String",
            "context" : "String",
            "uri" : "String"
          } ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "uri" : "String",
        "cacheable" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "domain-id" : "Integer",
    "description" : "String",
    "order" : "Integer",
    "id" : "Integer",
    "aliases" : {
      "alias" : [ "String" ],
```


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```
  "uri" : "String",
  "totalSize" : "Integer"
},
"max_transactions" : "Integer",
"group-app-members" : {
  "group-nested-member" : [ {
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "id" : "Integer",
    "application-name" : "String",
    "disable-state" : "Boolean",
    "name" : "String",
    "display-name" : "String",
    "app-id" : "Integer",
    "description" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "type" : [ "protocol", "application", "group" ],
    "order" : "Integer",
    "max_transactions" : "Integer",
    "default-port" : "String",
    "category" : "String",
    "sub-category" : "String",
    "risk" : "String",
    "characteristic" : "String",
    "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"disable-state" : "Boolean",
"created-by-user-name" : "String",
"last-modified-time" : "Date",
"name" : "String",
"app-id-version" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
"characteristic" : "String",
"sub-category" : "String",
"version" : "Integer",
"app-id" : "Integer",
"display-name" : "String",
"app-sig-tags" : {
  "idp-common-value" : [ {
    "name" : "String",
    "value" : "String",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"default-port" : "String",
"priority" : [ "low", "high" ],
"address-mapping" : {
  "ip-address" : [ {
    "name" : "String",
    "tcp-port" : "String",
    "udp-port" : "String",
    "ip" : "String"
  } ]
},
"icmp-code" : "Integer",
```


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```
    "icmp-type" : "Integer",
    "ip-protocol" : "Integer",
    "cacheable" : "Boolean",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "category" : "String",
    "last-modified-by-user-name" : "String",
    "domain-name" : "String",
    "risk" : "String",
    "global" : "String",
    "protocol-name" : "String",
    "application-name" : "String",
    "edit-version" : "Integer",
    "urls" : {
      "url" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "group-nested-members" : {
      "group-nested-member" : [ {
        "created-by-user-name" : "String",
        "last-modified-by-user-name" : "String",
        "id" : "Integer",
        "application-name" : "String",
        "disable-state" : "Boolean",
        "name" : "String",
        "display-name" : "String",
        "app-id" : "Integer",
        "description" : "String",
        "domain-name" : "String",
        "domain-id" : "Integer",
        "type" : [ "protocol", "application", "group" ],
        "order" : "Integer",
        "max_transactions" : "Integer",
        "default-port" : "String",
        "category" : "String",
        "sub-category" : "String",
        "risk" : "String",
        "characteristic" : "String",
        "device-compatibility" : [ "ALL", "X46_AND_OLDER", "X47_AND_NEWER" ],
        "uri" : "String",
        "link" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "type" : [ "protocol", "application", "group" ],
    "link" : "String",
    "uri" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<app-sig>
  <over-list>
    <over-list>String</over-list>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </over-list>
  <pattern-sets>
    <pattern-set>
      <name>String</name>
      <port>String</port>
```


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```
      <max-transactions>Integer</max-transactions>
      <protocol>String</protocol>
      <stcpattern>String</stcpattern>
      <mindata>Integer</mindata>
      <mindatas2c>Integer</mindatas2c>
      <modified>String</modified>
      <id>Integer</id>
      <logic-function>String</logic-function>
      <pattern-order>Integer</pattern-order>
      <versions>
        <version>String</version>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </versions>
      <ordered>Boolean</ordered>
      <ctspattern>String</ctspattern>
      <default-port>String</default-port>
      <members>
        <pattern-member>
          <pattern-order>Integer</pattern-order>
          <id>Integer</id>
          <check-bytes>Integer</check-bytes>
          <pattern>String</pattern>
          <direction>String</direction>
          <context>String</context>
          <uri>String</uri>
        </pattern-member>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </members>
      <uri>String</uri>
      <cacheable>String</cacheable>
    </pattern-set>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </pattern-sets>
  <domain-id>Integer</domain-id>
  <description>String</description>
  <order>Integer</order>
  <id>Integer</id>
  <aliases>
    <alias>String</alias>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </aliases>
  <max_transactions>Integer</max_transactions>
  <group-app-members>
    <group-nested-member>
      <created-by-user-name>String</created-by-user-name>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <id>Integer</id>
      <application-name>String</application-name>
      <disable-state>Boolean</disable-state>
      <name>String</name>
      <display-name>String</display-name>
      <app-id>Integer</app-id>
      <description>String</description>
      <domain-name>String</domain-name>
      <domain-id>Integer</domain-id>
      <type>protocol</type>
      <type>application</type>
      <type>group</type>
      <order>Integer</order>
      <max_transactions>Integer</max_transactions>
```


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```
      <default-port>String</default-port>
      <category>String</category>
      <sub-category>String</sub-category>
      <risk>String</risk>
      <characteristic>String</characteristic>
      <device-compatibility>ALL</device-compatibility>
      <device-compatibility>X46_AND_OLDER</device-compatibility>
      <device-compatibility>X47_AND_NEWER</device-compatibility>
      <uri>String</uri>
      <link>String</link>
    </group-nested-member>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
</group-app-members>
<disable-state>Boolean</disable-state>
<created-by-user-name>String</created-by-user-name>
<last-modified-time>Date</last-modified-time>
<name>String</name>
<app-id-version>ALL</app-id-version>
<app-id-version>X46_AND_OLDER</app-id-version>
<app-id-version>X47_AND_NEWER</app-id-version>
<device-compatibility>ALL</device-compatibility>
<device-compatibility>X46_AND_OLDER</device-compatibility>
<device-compatibility>X47_AND_NEWER</device-compatibility>
<characteristic>String</characteristic>
<sub-category>String</sub-category>
<version>Integer</version>
<app-id>Integer</app-id>
<display-name>String</display-name>
<app-sig-tags>
    <idp-common-value>
      <name>String</name>
      <value>String</value>
      <uri>String</uri>
      <link>String</link>
    </idp-common-value>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
</app-sig-tags>
<default-port>String</default-port>
<priority>low</priority>
<priority>high</priority>
<address-mapping>
    <ip-address>
      <name>String</name>
      <tcp-port>String</tcp-port>
      <udp-port>String</udp-port>
      <ip>String</ip>
    </ip-address>
</address-mapping>
<icmp-code>Integer</icmp-code>
<icmp-type>Integer</icmp-type>
<ip-protocol>Integer</ip-protocol>
<cacheable>Boolean</cacheable>
<definition-type>Hidden</definition-type>
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
<definition-type>All</definition-type>
<category>String</category>
<last-modified-by-user-name>String</last-modified-by-user-name>
<domain-name>String</domain-name>
<risk>String</risk>
<global>String</global>
<protocol-name>String</protocol-name>
```


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```
  <application-name>String</application-name>
  <edit-version>Integer</edit-version>
  <urls>
    <url>String</url>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </urls>
  <group-nested-members>
    <group-nested-member>
      <created-by-user-name>String</created-by-user-name>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <id>Integer</id>
      <application-name>String</application-name>
      <disable-state>Boolean</disable-state>
      <name>String</name>
      <display-name>String</display-name>
      <app-id>Integer</app-id>
      <description>String</description>
      <domain-name>String</domain-name>
      <domain-id>Integer</domain-id>
      <type>protocol</type>
      <type>application</type>
      <type>group</type>
      <order>Integer</order>
      <max_transactions>Integer</max_transactions>
      <default-port>String</default-port>
      <category>String</category>
      <sub-category>String</sub-category>
      <risk>String</risk>
      <characteristic>String</characteristic>
      <device-compatibility>ALL</device-compatibility>
      <device-compatibility>X46_AND_OLDER</device-compatibility>
      <device-compatibility>X47_AND_NEWER</device-compatibility>
      <uri>String</uri>
      <link>String</link>
    </group-nested-member>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </group-nested-members>
  <type>protocol</type>
  <type>application</type>
  <type>group</type>
  <link>String</link>
  <uri>String</uri>
</app-sig>
```


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CHAPTER 13

Change Control Workflow RESTful Web Services

The following opertions can be performed using Secuirty Director Change Control Workflow RESTful Web Services

Get summary of changes for a given Change Request

Returns all the rule changes for the given change request. It gives rule level details like which rule is added/modified/deleted and not more than that.

URI	/api/juniper/sd/change-request-management/v1/change-requests/{change-request-id}/change-summaries
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	SD.ViewCRs

Sample JSON Output:

```
{
  "change-summaries" : {
    "rule-change-summary" : [ {
      "last-modified-time" : "Long",
      "operation" : [ "add", "delete", "modify", "array_move" ],
      "rule-name" : "String",
      "change-summary" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<change-summaries>
  <rule-change-summary>
    <last-modified-time>Long</last-modified-time>
    <operation>add</operation>
    <operation>delete</operation>
    <operation>modify</operation>
    <operation>array_move</operation>
    <rule-name>String</rule-name>
    <change-summary>String</change-summary>
    <uri>String</uri>
  </rule-change-summary>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</change-summaries>
```

Create Change Request

Creates change request asynchronously. This API returns unique identification value by which user can fetch the status of change request create.

URI	/api/juniper/sd/change-request-management/v1/create-async
HTTP method	POST
Content-Type	application/xml;charset=UTF-8 application/json;charset=UTF-8
Accept-Type	application/xml application/json
Access-Control	SD.CreateCR

Sample JSON Input

```
{
  "change-request" : {
    "priority" : [ "LOW", "MEDIUM", "HIGH", "CRITICAL" ],
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "creation-date" : "Long",
    "deploy-date" : "Long",
    "deploy-job-id" : "String",
    "has-dependency" : "Boolean",
    "policy-id" : "Integer",
    "approve-or-deny-by-name" : "String",
    "deployed-by-name" : "String",
    "approval-due-date" : "Long",
    "name" : "String",
```


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```
    "ticket-no" : "String",
    "policy-name" : "String",
    "comments" : "String",
    "service-type" : [ "POLICY", "IPSPOLICY", "NAT", "VPN", "APBR", "JIMS", "GLOBAL", "GLOBALIDP",
"DNSSECURITYPOLICY", "DNSSINKHOLE", "DNSFILTER" ],
    "approval-status" : [ "PENDING", "APPROVED", "DEPLOYED", "DEPLOY_SCHEDULED",
"DEPLOY_FAILED", "DENIED", "DEPLOY_INPROGRESS" ],
    "preview-config" : {
      "description" : "String"
    }
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<change-request>
  <priority>LOW</priority>
  <priority>MEDIUM</priority>
  <priority>HIGH</priority>
  <priority>CRITICAL</priority>
  <description>String</description>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <creation-date>Long</creation-date>
  <deploy-date>Long</deploy-date>
  <deploy-job-id>String</deploy-job-id>
  <has-dependency>Boolean</has-dependency>
  <policy-id>Integer</policy-id>
  <approve-or-deny-by-name>String</approve-or-deny-by-name>
  <deployed-by-name>String</deployed-by-name>
  <approval-due-date>Long</approval-due-date>
  <name>String</name>
  <ticket-no>String</ticket-no>
  <policy-name>String</policy-name>
  <comments>String</comments>
  <service-type>POLICY</service-type>
  <service-type>IPSPOLICY</service-type>
  <service-type>NAT</service-type>
  <service-type>VPN</service-type>
  <service-type>APBR</service-type>
  <service-type>JIMS</service-type>
  <service-type>GLOBAL</service-type>
  <service-type>GLOBALIDP</service-type>
  <service-type>DNSSECURITYPOLICY</service-type>
  <service-type>DNSSINKHOLE</service-type>
  <service-type>DNSFILTER</service-type>
  <approval-status>PENDING</approval-status>
  <approval-status>APPROVED</approval-status>
  <approval-status>DEPLOYED</approval-status>
  <approval-status>DEPLOY_SCHEDULED</approval-status>
  <approval-status>DEPLOY_FAILED</approval-status>
  <approval-status>DENIED</approval-status>
  <approval-status>DEPLOY_INPROGRESS</approval-status>
  <preview-config>
    <description>String</description>
  </preview-config>
</change-request>
```


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Sample JSON Output:


```
{
  "create-async-response" : {
    "value" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<create-async-response>
   <value>String</value>
</create-async-response>
```


Get delta configuration for the change request

Returns the configuration details for the given change request. This creates a job and returns the job id for monitoring it. Once job completes, user should be able to fetch the results using job id.

URI	/api/juniper/sd/change-request-management/v1/change-requests/{id}/preview-config?sdDeviceId=Integer
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	SD.ViewCRs

Sample JSON Output:


```
{
  "monitorable-task-instances" : {
    "monitorable-task-instance-managed-object" : [ {
      "supports-recurrence" : "Boolean",
      "repeat-cron" : "String",
      "mo-state" : "String",
      "schedule-string" : "String",
      "job-status" : [ "UNDETERMINED", "INCOMPLETE", "FAILURE", "SUCCESS", "CANCELLED",
"DEPRECATED" ],
      "job-parameter-data-string" : "String",
      "gui-name" : "String",
      "job-state" : [ "SCHEDULED", "QUEUED", "STARTING", "INPROGRESS", "DONE", "CANCELLING",
```


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```
"DISABLED" ],
      "start-time-string-rest" : "String",
      "device-image-name" : "String",
      "end-time" : "Date",
      "task-name" : "String",
      "service-name" : "String",
      "id" : "String",
      "start-time" : "Date",
      "operation" : "String",
      "details" : "String",
      "details-action-type" : "String",
      "name" : "String",
      "scheduled-start-time-string-rest" : "String",
      "retry-of-id" : "Integer",
      "scheduled-start-time" : "Date",
      "script-bundle-selected" : "String",
      "details-action-url" : "String",
      "end-time-string-rest" : "String",
      "job-params-action-url" : "String",
      "percent-complete" : "Double",
      "is-enabled" : "Boolean",
      "retry-group-id" : "Integer",
      "job-params-summary" : "String",
      "complete-time" : "Integer",
      "user" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<monitorable-task-instances>
   <monitorable-task-instance-managed-object>
      <supports-recurrence>Boolean</supports-recurrence>
      <repeat-cron>String</repeat-cron>
      <mo-state>String</mo-state>
      <schedule-string>String</schedule-string>
      <job-status>UNDETERMINED</job-status>
      <job-status>INCOMPLETE</job-status>
      <job-status>FAILURE</job-status>
      <job-status>SUCCESS</job-status>
      <job-status>CANCELLED</job-status>
      <job-status>DEPRECATED</job-status>
      <job-parameter-data-string>String</job-parameter-data-string>
      <gui-name>String</gui-name>
      <job-state>SCHEDULED</job-state>
      <job-state>QUEUED</job-state>
      <job-state>STARTING</job-state>
      <job-state>INPROGRESS</job-state>
      <job-state>DONE</job-state>
      <job-state>CANCELLING</job-state>
      <job-state>DISABLED</job-state>
      <start-time-string-rest>String</start-time-string-rest>
      <device-image-name>String</device-image-name>
      <end-time>Date</end-time>
      <task-name>String</task-name>
      <service-name>String</service-name>
      <id>String</id>
      <start-time>Date</start-time>
      <operation>String</operation>
```


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```
    <details>String</details>
    <details-action-type>String</details-action-type>
    <name>String</name>
    <scheduled-start-time-string-rest>String</scheduled-start-time-string-rest>
    <retry-of-id>Integer</retry-of-id>
    <scheduled-start-time>Date</scheduled-start-time>
    <script-bundle-selected>String</script-bundle-selected>
    <details-action-url>String</details-action-url>
    <end-time-string-rest>String</end-time-string-rest>
    <job-params-action-url>String</job-params-action-url>
    <percent-complete>Double</percent-complete>
    <is-enabled>Boolean</is-enabled>
    <retry-group-id>Integer</retry-group-id>
    <job-params-summary>String</job-params-summary>
    <complete-time>Integer</complete-time>
    <user>String</user>
    <uri>String</uri>
  </monitorable-task-instance-managed-object>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</monitorable-task-instances>
```


Get delta configuration for the unsubmitted policy

This API returns delta configuration for the policy whose change is not submitted yet

URI	/api/juniper/sd/change-request-management/v1/services/{service-type}/{service-id}/preview-config?sdDeviceId=Integer
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	SD.ViewCRs

Sample JSON Output:


```
{
  "monitorable-task-instances" : {
    "monitorable-task-instance-managed-object" : [ {
      "supports-recurrence" : "Boolean",
      "repeat-cron" : "String",
      "mo-state" : "String",
      "schedule-string" : "String",
      "job-status" : [ "UNDETERMINED", "INCOMPLETE", "FAILURE", "SUCCESS", "CANCELLED",
"DEPRECATED" ],
      "job-parameter-data-string" : "String",
```


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```
      "gui-name" : "String",
      "job-state" : [ "SCHEDULED", "QUEUED", "STARTING", "INPROGRESS", "DONE", "CANCELLING",
"DISABLED" ],
      "start-time-string-rest" : "String",
      "device-image-name" : "String",
      "end-time" : "Date",
      "task-name" : "String",
      "service-name" : "String",
      "id" : "String",
      "start-time" : "Date",
      "operation" : "String",
      "details" : "String",
      "details-action-type" : "String",
      "name" : "String",
      "scheduled-start-time-string-rest" : "String",
      "retry-of-id" : "Integer",
      "scheduled-start-time" : "Date",
      "script-bundle-selected" : "String",
      "details-action-url" : "String",
      "end-time-string-rest" : "String",
      "job-params-action-url" : "String",
      "percent-complete" : "Double",
      "is-enabled" : "Boolean",
      "retry-group-id" : "Integer",
      "job-params-summary" : "String",
      "complete-time" : "Integer",
      "user" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<monitorable-task-instances>
  <monitorable-task-instance-managed-object>
    <supports-recurrence>Boolean</supports-recurrence>
    <repeat-cron>String</repeat-cron>
    <mo-state>String</mo-state>
    <schedule-string>String</schedule-string>
    <job-status>UNDETERMINED</job-status>
    <job-status>INCOMPLETE</job-status>
    <job-status>FAILURE</job-status>
    <job-status>SUCCESS</job-status>
    <job-status>CANCELLED</job-status>
    <job-status>DEPRECATED</job-status>
    <job-parameter-data-string>String</job-parameter-data-string>
    <gui-name>String</gui-name>
    <job-state>SCHEDULED</job-state>
    <job-state>QUEUED</job-state>
    <job-state>STARTING</job-state>
    <job-state>INPROGRESS</job-state>
    <job-state>DONE</job-state>
    <job-state>CANCELLING</job-state>
    <job-state>DISABLED</job-state>
    <start-time-string-rest>String</start-time-string-rest>
    <device-image-name>String</device-image-name>
    <end-time>Date</end-time>
    <task-name>String</task-name>
    <service-name>String</service-name>
    <id>String</id>
```


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```
    <start-time>Date</start-time>
    <operation>String</operation>
    <details>String</details>
    <details-action-type>String</details-action-type>
    <name>String</name>
    <scheduled-start-time-string-rest>String</scheduled-start-time-string-rest>
    <retry-of-id>Integer</retry-of-id>
    <scheduled-start-time>Date</scheduled-start-time>
    <script-bundle-selected>String</script-bundle-selected>
    <details-action-url>String</details-action-url>
    <end-time-string-rest>String</end-time-string-rest>
    <job-params-action-url>String</job-params-action-url>
    <percent-complete>Double</percent-complete>
    <is-enabled>Boolean</is-enabled>
    <retry-group-id>Integer</retry-group-id>
    <job-params-summary>String</job-params-summary>
    <complete-time>Integer</complete-time>
    <user>String</user>
    <uri>String</uri>
  </monitorable-task-instance-managed-object>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</monitorable-task-instances>
```


Approve Change Request

Approves the given change requests. It returns all the given change requests along with their dependencies for both success or failure cases.

URI	/api/juniper/sd/change-request-management/v1/approve-change-requests
HTTP method	POST
Content-Type	application/xml;charset=UTF-8 application/json;charset=UTF-8
Accept-Type	application/xml application/json
Access-Control	SD.ApproveCRs

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Sample JSON Input

```
{
  "approve-change-requests-request" : {
    "id-list" : {
      "id-list" : [ "Integer" ]
    },
    "comments" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<approve-change-requests-request>
   <id-list>
      <id-list>Integer</id-list>
   </id-list>
   <comments>String</comments>
</approve-change-requests-request>
```

Sample JSON Output:

```
{
  "approve-change-requests" : {
    "cr-status-change-result" : [ {
      "message" : "String",
      "result" : [ "Success", "Failed" ],
      "dependencies" : {
        "mo-reference" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "domain-name" : "String",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "dependents" : {
        "mo-reference" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "domain-name" : "String",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "change-request-mo-ref" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<approve-change-requests>
  <cr-status-change-result>
    <message>String</message>
    <result>Success</result>
    <result>Failed</result>
    <dependencies>
      <mo-reference>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <domain-name>String</domain-name>
        <uri>String</uri>
      </mo-reference>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </dependencies>
    <dependents>
      <mo-reference>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <domain-name>String</domain-name>
        <uri>String</uri>
      </mo-reference>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </dependents>
    <change-request-mo-ref>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
    </change-request-mo-ref>
    <uri>String</uri>
  </cr-status-change-result>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</approve-change-requests>
```

Deny Change Request

Denies the specified change requests. User must provide deny reason to the request.

URI	/api/juniper/sd/change-request-management/v1/deny-change-requests
HTTP method	POST
Content-Type	application/xml;charset=UTF-8 application/json;charset=UTF-8

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Accept-Type	application/xml application/json
Access-Control	SD.DenyCRs

Sample JSON Input

```
{
  "deny-change-requests-request" : {
    "id-list" : {
      "id-list" : [ "Integer" ]
    },
    "comments" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<deny-change-requests-request>
   <id-list>
      <id-list>Integer</id-list>
   </id-list>
   <comments>String</comments>
</deny-change-requests-request>
```

Sample JSON Output:

```
{
  "deny-change-requests" : {
    "cr-status-change-result" : [ {
      "message" : "String",
      "result" : [ "Success", "Failed" ],
      "dependencies" : {
        "mo-reference" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "domain-name" : "String",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "dependents" : {
        "mo-reference" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "domain-name" : "String",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "change-request-mo-ref" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
```


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```
      },
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<deny-change-requests>
  <cr-status-change-result>
    <message>String</message>
    <result>Success</result>
    <result>Failed</result>
    <dependencies>
      <mo-reference>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <domain-name>String</domain-name>
        <uri>String</uri>
      </mo-reference>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </dependencies>
    <dependents>
      <mo-reference>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <domain-name>String</domain-name>
        <uri>String</uri>
      </mo-reference>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </dependents>
    <change-request-mo-ref>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
    </change-request-mo-ref>
    <uri>String</uri>
  </cr-status-change-result>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</deny-change-requests>
```


Get Dependencies of Change Request

Returns all the dependencies or parent change requests for the given change request. User can specify whether to get dependencies recursively or not. When specified as recursive, it fetches dependencies of dependency till it does not find any dependencies.

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URI	/api/juniper/sd/change-request-management/v1/change-requests/{change-request-id}/dependencies?recursive=Boolean&withDeployed=Boolean
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	SD.ViewCRs

Sample JSON Output:


```
{
  "dependencies-for-change-requests" : {
    "mo-reference" : [ {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dependencies-for-change-requests>
   <mo-reference>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
   </mo-reference>
   <uri>String</uri>
   <totalSize>Integer</totalSize>
</dependencies-for-change-requests>
```


Get All the Unsubmitted Policies

Returns all the policies whose configuration changes are not yet submitted or not created a change request. It returns all the suported(currently Firewall and NAT) policies when there is an outstanding change.

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URI	/api/juniper/sd/change-request-management/v1/unsubmitted-policy-lists?skipLockedPolicies=Boolean
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	SD.ViewCRs

Sample JSON Output:


```
{
  "change-request-policies" : {
    "change-request-policy" : [ {
      "policy-name" : "String",
      "last-modified" : "Long",
      "policy-id" : "Integer",
      "user-name" : "String",
      "device-details" : {
        "down-count" : "Integer",
        "device-names" : {
          "device-name" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "total-devices" : "Integer",
        "uri" : "String"
      },
      "domain-name" : "String",
      "service-type" : [ "POLICY", "IPSPOLICY", "NAT", "VPN", "APBR", "JIMS", "GLOBAL", "GLOBALIDP",
"DNSSECURITYPOLICY", "DNSSINKHOLE", "DNSFILTER" ],
      "uri" : "String",
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<change-request-policies>
  <change-request-policy>
    <policy-name>String</policy-name>
    <last-modified>Long</last-modified>
    <policy-id>Integer</policy-id>
    <user-name>String</user-name>
    <device-details>
      <down-count>Integer</down-count>
      <device-names>
```


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```
        <device-name>String</device-name>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </device-names>
      <total-devices>Integer</total-devices>
      <uri>String</uri>
    </device-details>
    <domain-name>String</domain-name>
    <service-type>POLICY</service-type>
    <service-type>IPSPOLICY</service-type>
    <service-type>NAT</service-type>
    <service-type>VPN</service-type>
    <service-type>APBR</service-type>
    <service-type>JIMS</service-type>
    <service-type>GLOBAL</service-type>
    <service-type>GLOBALIDP</service-type>
    <service-type>DNSSECURITYPOLICY</service-type>
    <service-type>DNSSINKHOLE</service-type>
    <service-type>DNSFILTER</service-type>
    <uri>String</uri>
    <link>String</link>
  </change-request-policy>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</change-request-policies>
```

Get Dependents of Change Request

Returns all the dependents or child change requests of the specified change request. User can specify whether to get dependents recursively or not. When specified as recursive, it fetches dependents of dependents till it does not find any dependents.

URI	/api/juniper/sd/change-request-management/v1/change-requests/{change-request-id}/dependents?recursive=Boolean
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	SD.ViewCRs

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Sample JSON Output:


```
{
  "dependents-for-change-requests" : {
    "mo-reference" : [ {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dependents-for-change-requests>
   <mo-reference>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
   </mo-reference>
   <uri>String</uri>
   <totalSize>Integer</totalSize>
</dependents-for-change-requests>
```


Remove Change Request

Removes the specified change request and makes the policy unsubmitted.

URI	/api/juniper/sd/change-request-management/v1/change-requests/{cr-id}/remove-change-request
HTTP method	DELETE
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	SD.RemoveCR

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Sample JSON Output:


```
{
  "remove-change-request-response" : {
    "value" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<remove-change-request-response>
   <value>String</value>
</remove-change-request-response>
```


Check whether unsubmitted changes can be discarded

This API verifies whether the changes of the given policy can be discarded.

URI	/api/juniper/sd/change-request-management/v1/unsubmitted-policies/{policy-moid}/can-discard-changes
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	managePolicies

Sample JSON Output:


```
{
  "can-discard-changes-response" : {
    "value" : "Boolean"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<can-discard-changes-response>
   <value>Boolean</value>
</can-discard-changes-response>
```

Get Change Summary for Unsubmitted policy

Returns the summary of changes done to the policy since the previous change request.

URI	/api/juniper/sd/change-request-management/v1/policies/{policy-id}/service-types/{service-type}/change-summaries
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	SD.ViewCRs

Sample JSON Output:

```
{
  "change-summary-for-unsubmitted-grids" : {
    "rule-change-summary" : [ {
      "last-modified-time" : "Long",
      "operation" : [ "add", "delete", "modify", "array_move" ],
      "rule-name" : "String",
      "change-summary" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<change-summary-for-unsubmitted-grids>
  <rule-change-summary>
    <last-modified-time>Long</last-modified-time>
    <operation>add</operation>
    <operation>delete</operation>
    <operation>modify</operation>
    <operation>array_move</operation>
    <rule-name>String</rule-name>
    <change-summary>String</change-summary>
    <uri>String</uri>
  </rule-change-summary>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</change-summary-for-unsubmitted-grids>
```

Get CCW system settings

Returns all the Change Control Workflow system settings.

URI	/api/juniper/sd/change-request-management/v1/ccw-settings
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	SD.ViewCRs

Sample JSON Output:

```
{
  "ccw-settings-response" : {
    "max-change-requests-per-policy" : "Integer",
    "ticket-field-name" : "String",
    "default-approval-days" : "Integer",
    "email-notification-enabled" : "Boolean",
    "change-control-workflow-enabled" : "Boolean",
    "uri" : "String"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ccw-settings-response>
  <max-change-requests-per-policy>Integer</max-change-requests-per-policy>
  <ticket-field-name>String</ticket-field-name>
  <default-approval-days>Integer</default-approval-days>
  <email-notification-enabled>Boolean</email-notification-enabled>
  <change-control-workflow-enabled>Boolean</change-control-workflow-enabled>
  <uri>String</uri>
</ccw-settings-response>
```

Get policy unsubmitted state

Tells whether the policy is unsubmitted or not

URI	/api/juniper/sd/change-request-management/v1/policies/{policy-id}/does-policy-unsubmitted
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	SD.ViewCRs

Sample JSON Output:

```
{
  "does-policy-unsubmitted-response" : {
    "value" : "Boolean"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<does-policy-unsubmitted-response>
  <value>Boolean</value>
</does-policy-unsubmitted-response>
```


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Get Compare Changes for policy

Returns the changes of the unsubmitted policy in comparision to the changes done till the previous change request.

URI	/api/juniper/sd/change-request-management/v1/policies/{policy-id}/screens/{screen-id}/policy-compare-changes
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	SD.ViewCRs

Sample JSON Output:

```
{
  "policy-compare-changes-response" : {
    "value" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<policy-compare-changes-response>
   <value>String</value>
</policy-compare-changes-response>
```

Get Compare Changes for Change Request

Returns the changes done as a delta for the change request.

URI	/api/juniper/sd/change-request-management/v1/change-requests/{change-request-id}/screens/{screen-id}/change-request-compare-changes

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HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	SD.ViewCRs

Sample JSON Output:

```
{
  "change-request-compare-changes-response" : {
    "value" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<change-request-compare-changes-response>
   <value>String</value>
</change-request-compare-changes-response>
```

Modify Change Request

Allows user to modify the change request meta data like name, priority, approval due date, description, ticket number. It does not allow to modify the configuration.

URI	/api/juniper/sd/change-request-management/v1/change-requests/{id}
HTTP method	PUT
Content-Type	application/xml;charset=UTF-8 application/json;charset=UTF-8
Accept-Type	application/xml application/json

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Access-Control SD.ModifyCR

Sample JSON Input

```
{
  "change-request" : {
    "priority" : [ "LOW", "MEDIUM", "HIGH", "CRITICAL" ],
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "creation-date" : "Long",
    "deploy-date" : "Long",
    "deploy-job-id" : "String",
    "has-dependency" : "Boolean",
    "policy-id" : "Integer",
    "approve-or-deny-by-name" : "String",
    "deployed-by-name" : "String",
    "approval-due-date" : "Long",
    "name" : "String",
    "ticket-no" : "String",
    "policy-name" : "String",
    "comments" : "String",
    "service-type" : [ "POLICY", "IPSPOLICY", "NAT", "VPN", "APBR", "JIMS", "GLOBAL", "GLOBALIDP",
"DNSSECURITYPOLICY", "DNSSINKHOLE", "DNSFILTER" ],
    "approval-status" : [ "PENDING", "APPROVED", "DEPLOYED", "DEPLOY_SCHEDULED",
"DEPLOY_FAILED", "DENIED", "DEPLOY_INPROGRESS" ],
    "preview-config" : {
      "description" : "String"
    }
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<change-request>
  <priority>LOW</priority>
  <priority>MEDIUM</priority>
  <priority>HIGH</priority>
  <priority>CRITICAL</priority>
  <description>String</description>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <creation-date>Long</creation-date>
  <deploy-date>Long</deploy-date>
  <deploy-job-id>String</deploy-job-id>
  <has-dependency>Boolean</has-dependency>
  <policy-id>Integer</policy-id>
  <approve-or-deny-by-name>String</approve-or-deny-by-name>
  <deployed-by-name>String</deployed-by-name>
  <approval-due-date>Long</approval-due-date>
  <name>String</name>
  <ticket-no>String</ticket-no>
  <policy-name>String</policy-name>
  <comments>String</comments>
  <service-type>POLICY</service-type>
  <service-type>IPSPOLICY</service-type>
  <service-type>NAT</service-type>
  <service-type>VPN</service-type>
  <service-type>APBR</service-type>
  <service-type>JIMS</service-type>
  <service-type>GLOBAL</service-type>
  <service-type>GLOBALIDP</service-type>
```


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```
  <service-type>DNSSECURITYPOLICY</service-type>
  <service-type>DNSSINKHOLE</service-type>
  <service-type>DNSFILTER</service-type>
  <approval-status>PENDING</approval-status>
  <approval-status>APPROVED</approval-status>
  <approval-status>DEPLOYED</approval-status>
  <approval-status>DEPLOY_SCHEDULED</approval-status>
  <approval-status>DEPLOY_FAILED</approval-status>
  <approval-status>DENIED</approval-status>
  <approval-status>DEPLOY_INPROGRESS</approval-status>
  <preview-config>
    <description>String</description>
  </preview-config>
</change-request>
```

Sample JSON Output:

```
{
 "change-request" : {
   "priority" : [ "LOW", "MEDIUM", "HIGH", "CRITICAL" ],
   "description" : "String",
   "global" : "String",
   "id" : "Integer",
   "edit-version" : "Integer",
   "creation-date" : "Long",
   "deploy-date" : "Long",
   "deploy-job-id" : "String",
   "has-dependency" : "Boolean",
   "domain-name" : "String",
   "policy-id" : "Integer",
   "created-by-user-name" : "String",
   "approve-or-deny-by-name" : "String",
   "deployed-by-name" : "String",
   "approval-due-date" : "Long",
   "name" : "String",
   "ticket-no" : "String",
   "policy-name" : "String",
   "comments" : "String",
   "service-type" : [ "POLICY", "IPSPOLICY", "NAT", "VPN", "APBR", "JIMS", "GLOBAL", "GLOBALIDP",
"DNSSECURITYPOLICY", "DNSSINKHOLE", "DNSFILTER" ],
   "approval-status" : [ "PENDING", "APPROVED", "DEPLOYED", "DEPLOY_SCHEDULED",
"DEPLOY_FAILED", "DENIED", "DEPLOY_INPROGRESS" ],
   "uri" : "String",
   "preview-config" : {
     "description" : "String",
     "link" : "String"
   }
 }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<change-request>
  <priority>LOW</priority>
  <priority>MEDIUM</priority>
  <priority>HIGH</priority>
  <priority>CRITICAL</priority>
  <description>String</description>
  <global>String</global>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <creation-date>Long</creation-date>
  <deploy-date>Long</deploy-date>
  <deploy-job-id>String</deploy-job-id>
  <has-dependency>Boolean</has-dependency>
```


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```
<domain-name>String</domain-name>
<policy-id>Integer</policy-id>
<created-by-user-name>String</created-by-user-name>
<approve-or-deny-by-name>String</approve-or-deny-by-name>
<deployed-by-name>String</deployed-by-name>
<approval-due-date>Long</approval-due-date>
<name>String</name>
<ticket-no>String</ticket-no>
<policy-name>String</policy-name>
<comments>String</comments>
<service-type>POLICY</service-type>
<service-type>IPSPOLICY</service-type>
<service-type>NAT</service-type>
<service-type>VPN</service-type>
<service-type>APBR</service-type>
<service-type>JIMS</service-type>
<service-type>GLOBAL</service-type>
<service-type>GLOBALIDP</service-type>
<service-type>DNSSECURITYPOLICY</service-type>
<service-type>DNSSINKHOLE</service-type>
<service-type>DNSFILTER</service-type>
<approval-status>PENDING</approval-status>
<approval-status>APPROVED</approval-status>
<approval-status>DEPLOYED</approval-status>
<approval-status>DEPLOY_SCHEDULED</approval-status>
<approval-status>DEPLOY_FAILED</approval-status>
<approval-status>DENIED</approval-status>
<approval-status>DEPLOY_INPROGRESS</approval-status>
<uri>String</uri>
<preview-config>
  <description>String</description>
  <link>String</link>
</preview-config>
</change-request>
```

Deploy Change Request

Deploys the change request to the assigned devices of the policy.

URI	/api/juniper/sd/change-request-management/v1/change-requests/{id}/deploy
HTTP method	POST
Content-Type	application/xml;charset=UTF-8 application/json;charset=UTF-8
Accept-Type	application/xml application/json

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Sample JSON Input

```
{
  "deploy-request" : {
    "schedule-time" : "Long"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<deploy-request>
   <schedule-time>Long</schedule-time>
</deploy-request>
```

Sample JSON Output:

```
{
  "monitorable-task-instances" : {
    "monitorable-task-instance-managed-object" : [ {
      "supports-recurrence" : "Boolean",
      "repeat-cron" : "String",
      "mo-state" : "String",
      "schedule-string" : "String",
      "job-status" : [ "UNDETERMINED", "INCOMPLETE", "FAILURE", "SUCCESS", "CANCELLED",
"DEPRECATED" ],
      "job-parameter-data-string" : "String",
      "gui-name" : "String",
      "job-state" : [ "SCHEDULED", "QUEUED", "STARTING", "INPROGRESS", "DONE", "CANCELLING",
"DISABLED" ],
      "start-time-string-rest" : "String",
      "device-image-name" : "String",
      "end-time" : "Date",
      "task-name" : "String",
      "service-name" : "String",
      "id" : "String",
      "start-time" : "Date",
      "operation" : "String",
      "details" : "String",
      "details-action-type" : "String",
      "name" : "String",
      "scheduled-start-time-string-rest" : "String",
      "retry-of-id" : "Integer",
      "scheduled-start-time" : "Date",
      "script-bundle-selected" : "String",
      "details-action-url" : "String",
      "end-time-string-rest" : "String",
      "job-params-action-url" : "String",
      "percent-complete" : "Double",
      "is-enabled" : "Boolean",
      "retry-group-id" : "Integer",
      "job-params-summary" : "String",
      "complete-time" : "Integer",
      "user" : "String",
      "uri" : "String"
```


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```
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<monitorable-task-instances>
  <monitorable-task-instance-managed-object>
    <supports-recurrence>Boolean</supports-recurrence>
    <repeat-cron>String</repeat-cron>
    <mo-state>String</mo-state>
    <schedule-string>String</schedule-string>
    <job-status>UNDETERMINED</job-status>
    <job-status>INCOMPLETE</job-status>
    <job-status>FAILURE</job-status>
    <job-status>SUCCESS</job-status>
    <job-status>CANCELLED</job-status>
    <job-status>DEPRECATED</job-status>
    <job-parameter-data-string>String</job-parameter-data-string>
    <gui-name>String</gui-name>
    <job-state>SCHEDULED</job-state>
    <job-state>QUEUED</job-state>
    <job-state>STARTING</job-state>
    <job-state>INPROGRESS</job-state>
    <job-state>DONE</job-state>
    <job-state>CANCELLING</job-state>
    <job-state>DISABLED</job-state>
    <start-time-string-rest>String</start-time-string-rest>
    <device-image-name>String</device-image-name>
    <end-time>Date</end-time>
    <task-name>String</task-name>
    <service-name>String</service-name>
    <id>String</id>
    <start-time>Date</start-time>
    <operation>String</operation>
    <details>String</details>
    <details-action-type>String</details-action-type>
    <name>String</name>
    <scheduled-start-time-string-rest>String</scheduled-start-time-string-rest>
    <retry-of-id>Integer</retry-of-id>
    <scheduled-start-time>Date</scheduled-start-time>
    <script-bundle-selected>String</script-bundle-selected>
    <details-action-url>String</details-action-url>
    <end-time-string-rest>String</end-time-string-rest>
    <job-params-action-url>String</job-params-action-url>
    <percent-complete>Double</percent-complete>
    <is-enabled>Boolean</is-enabled>
    <retry-group-id>Integer</retry-group-id>
    <job-params-summary>String</job-params-summary>
    <complete-time>Integer</complete-time>
    <user>String</user>
    <uri>String</uri>
  </monitorable-task-instance-managed-object>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</monitorable-task-instances>
```


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CHAPTER 14

Content Filtering Profile Management RESTful Web Services

The following opertions can be performed using Secuirty Director Content Filtering Profile Management RESTful Web Services

Modify Content Filtering Profile

This request is used to modify an existing content filtering profile.

URI	/api/juniper/sd/utm-management/content-filtering-profiles/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.utm-management.content-filtering-profile+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.content-filtering-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.content-filtering-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.content-filtering-profile+json;version=1;q=0.01
Access-Control	modifyContentFiltering

Sample JSON Input

```
{
  "content-filtering-profile" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "permit-command-list" : {
      "permit-command" : [ "String" ]
    },
    "block-content-type-list" : {
      "block-content-type" : [ "ACTIVEX", "EXE", "JAVA_APPLET", "HTTP_COOKIE", "ZIP" ]
```


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```
    },
    "block-file-extension-list" : {
      "block-file-extension" : [ "String" ]
    },
    "notification-options" : {
      "custom-notification-message" : "String",
      "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
      "custom-notification-subject" : "String",
      "notify-mail-sender" : "Boolean"
    },
    "block-command-list" : {
      "block-command" : [ "String" ]
    },
    "block-mime-list" : {
      "block-mime" : [ "String" ]
    },
    "block-mime-exception-list" : {
      "block-mime-exception" : [ "String" ]
    },
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<content-filtering-profile>
  <name>String</name>
  <description>String</description>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <permit-command-list>
    <permit-command>String</permit-command>
  </permit-command-list>
  <block-content-type-list>
    <block-content-type>ACTIVEX</block-content-type>
    <block-content-type>EXE</block-content-type>
    <block-content-type>JAVA_APPLET</block-content-type>
    <block-content-type>HTTP_COOKIE</block-content-type>
    <block-content-type>ZIP</block-content-type>
  </block-content-type-list>
  <block-file-extension-list>
    <block-file-extension>String</block-file-extension>
  </block-file-extension-list>
  <notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
  </notification-options>
  <block-command-list>
    <block-command>String</block-command>
  </block-command-list>
```


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```
  <block-mime-list>
    <block-mime>String</block-mime>
  </block-mime-list>
  <block-mime-exception-list>
    <block-mime-exception>String</block-mime-exception>
  </block-mime-exception-list>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</content-filtering-profile>
```

Sample JSON Output:

```
{
  "content-filtering-profile" : {
    "name" : "String",
    "description" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "permit-command-list" : {
      "permit-command" : [ "String" ],
      "uri" : "String"
    },
    "block-content-type-list" : {
      "block-content-type" : [ "ACTIVEX", "EXE", "JAVA_APPLET", "HTTP_COOKIE", "ZIP" ],
      "uri" : "String"
    },
    "block-file-extension-list" : {
      "block-file-extension" : [ "String" ],
      "uri" : "String"
    },
    "notification-options" : {
      "custom-notification-message" : "String",
      "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
      "custom-notification-subject" : "String",
      "notify-mail-sender" : "Boolean",
      "uri" : "String"
    },
    "block-command-list" : {
      "block-command" : [ "String" ],
      "uri" : "String"
    },
    "block-mime-list" : {
      "block-mime" : [ "String" ],
      "uri" : "String"
    },
    "block-mime-exception-list" : {
      "block-mime-exception" : [ "String" ],
      "uri" : "String"
    },
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
```


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```
    "last-modified-by-user-name" : "String",
    "created-time" : "Date",
    "last-modified-time" : "Date"
   },
   "display_name" : "String",
   "update_number" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<content-filtering-profile>
  <name>String</name>
  <description>String</description>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <permit-command-list>
    <permit-command>String</permit-command>
    <uri>String</uri>
  </permit-command-list>
  <block-content-type-list>
    <block-content-type>ACTIVEX</block-content-type>
    <block-content-type>EXE</block-content-type>
    <block-content-type>JAVA_APPLET</block-content-type>
    <block-content-type>HTTP_COOKIE</block-content-type>
    <block-content-type>ZIP</block-content-type>
    <uri>String</uri>
  </block-content-type-list>
  <block-file-extension-list>
    <block-file-extension>String</block-file-extension>
    <uri>String</uri>
  </block-file-extension-list>
  <notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
    <uri>String</uri>
  </notification-options>
  <block-command-list>
    <block-command>String</block-command>
    <uri>String</uri>
  </block-command-list>
  <block-mime-list>
    <block-mime>String</block-mime>
    <uri>String</uri>
  </block-mime-list>
  <block-mime-exception-list>
    <block-mime-exception>String</block-mime-exception>
    <uri>String</uri>
  </block-mime-exception-list>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
  <uuid>String</uuid>
```


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```
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</content-filtering-profile>
```

Get Content Filtering Profile by ID

This request is used to list the content filtering profile information by ID.

URI	/api/juniper/sd/utm-management/content-filtering-profiles/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.content-filtering-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.content-filtering-profile+json;version=1;q=0.01
Access-Control	viewContentFiltering

Sample JSON Output:

```
{
 "content-filtering-profile" : {
  "name" : "String",
  "description" : "String",
  "domain-name" : "String",
  "domain-id" : "Integer",
  "id" : "Integer",
  "edit-version" : "Integer",
  "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "permit-command-list" : {
   "permit-command" : [ "String" ],
   "uri" : "String"
  },
  "block-content-type-list" : {
   "block-content-type" : [ "ACTIVEX", "EXE", "JAVA_APPLET", "HTTP_COOKIE", "ZIP" ],
   "uri" : "String"
  },
```


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```
    "block-file-extension-list" : {
      "block-file-extension" : [ "String" ],
      "uri" : "String"
    },
    "notification-options" : {
      "custom-notification-message" : "String",
      "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
      "custom-notification-subject" : "String",
      "notify-mail-sender" : "Boolean",
      "uri" : "String"
    },
    "block-command-list" : {
      "block-command" : [ "String" ],
      "uri" : "String"
    },
    "block-mime-list" : {
      "block-mime" : [ "String" ],
      "uri" : "String"
    },
    "block-mime-exception-list" : {
      "block-mime-exception" : [ "String" ],
      "uri" : "String"
    },
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<content-filtering-profile>
  <name>String</name>
  <description>String</description>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <permit-command-list>
    <permit-command>String</permit-command>
    <uri>String</uri>
  </permit-command-list>
  <block-content-type-list>
    <block-content-type>ACTIVEX</block-content-type>
    <block-content-type>EXE</block-content-type>
    <block-content-type>JAVA_APPLET</block-content-type>
    <block-content-type>HTTP_COOKIE</block-content-type>
    <block-content-type>ZIP</block-content-type>
```


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```
    <uri>String</uri>
  </block-content-type-list>
  <block-file-extension-list>
    <block-file-extension>String</block-file-extension>
    <uri>String</uri>
  </block-file-extension-list>
  <notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
    <uri>String</uri>
  </notification-options>
  <block-command-list>
    <block-command>String</block-command>
    <uri>String</uri>
  </block-command-list>
  <block-mime-list>
    <block-mime>String</block-mime>
    <uri>String</uri>
  </block-mime-list>
  <block-mime-exception-list>
    <block-mime-exception>String</block-mime-exception>
    <uri>String</uri>
  </block-mime-exception-list>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</content-filtering-profile>
```

Get All Content Filtering Profiles

This request is used to collect all the content filtering profile objects configured in Security Director.

URI	/api/juniper/sd/utm-management/content-filtering-profiles
HTTP method	GET

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Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.content-filtering-profile-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.content-filtering-profile-refs+json;version=1;q=0.01
Access-Control	viewContentFiltering

Sample JSON Output:


```
{
  "content-filtering-profiles" : {
    "content-filtering-profile" : [ {
      "permit-command-list" : {
        "permit-command" : [ "String" ]
      },
      "block-command-list" : {
        "block-command" : [ "String" ]
      },
      "notification-options" : {
        "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ]
      },
      "name" : "String",
      "description" : "String",
      "id" : "Integer",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "link" : "String",
      "uri" : "String",
      "global" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<content-filtering-profiles>
    <content-filtering-profile>
        <permit-command-list>
            <permit-command>String</permit-command>
        </permit-command-list>
        <block-command-list>
            <block-command>String</block-command>
        </block-command-list>
        <notification-options>
            <notification-type>PROTOCOL</notification-type>
            <notification-type>MESSAGE</notification-type>
            <notification-type>NONE</notification-type>
        </notification-options>
        <name>String</name>
        <description>String</description>
        <id>Integer</id>
        <domain-name>String</domain-name>
```


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```
    <domain-id>Integer</domain-id>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <link>String</link>
    <uri>String</uri>
    <global>String</global>
  </content-filtering-profile>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</content-filtering-profiles>
```

Delete Content Filtering Profile

This request is used to delete the content filtering profiles by ID.

URI	/api/juniper/sd/utm-management/content-filtering-profiles/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteContentFiltering

Create Content Filtering Profile

This request is used to create a new content filtering profile.

URI	/api/juniper/sd/utm-management/content-filtering-profiles
HTTP method	POST

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Content-Type	application/vnd.juniper.sd.utm-management.content-filtering-profile+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.content-filtering-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.content-filtering-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.content-filtering-profile+json;version=1;q=0.01
Access-Control	createContentFiltering

Sample JSON Input


```
{
  "content-filtering-profile" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "permit-command-list" : {
      "permit-command" : [ "String" ]
    },
    "block-content-type-list" : {
      "block-content-type" : [ "ACTIVEX", "EXE", "JAVA_APPLET", "HTTP_COOKIE", "ZIP" ]
    },
    "block-file-extension-list" : {
      "block-file-extension" : [ "String" ]
    },
    "notification-options" : {
      "custom-notification-message" : "String",
      "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
      "custom-notification-subject" : "String",
      "notify-mail-sender" : "Boolean"
    },
    "block-command-list" : {
      "block-command" : [ "String" ]
    },
    "block-mime-list" : {
      "block-mime" : [ "String" ]
    },
    "block-mime-exception-list" : {
      "block-mime-exception" : [ "String" ]
    },
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<content-filtering-profile>
  <name>String</name>
  <description>String</description>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <permit-command-list>
    <permit-command>String</permit-command>
  </permit-command-list>
  <block-content-type-list>
    <block-content-type>ACTIVEX</block-content-type>
    <block-content-type>EXE</block-content-type>
    <block-content-type>JAVA_APPLET</block-content-type>
    <block-content-type>HTTP_COOKIE</block-content-type>
    <block-content-type>ZIP</block-content-type>
  </block-content-type-list>
  <block-file-extension-list>
    <block-file-extension>String</block-file-extension>
  </block-file-extension-list>
  <notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
  </notification-options>
  <block-command-list>
    <block-command>String</block-command>
  </block-command-list>
  <block-mime-list>
    <block-mime>String</block-mime>
  </block-mime-list>
  <block-mime-exception-list>
    <block-mime-exception>String</block-mime-exception>
  </block-mime-exception-list>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</content-filtering-profile>
```

Sample JSON Output:

```
{
 "content-filtering-profile" : {
   "name" : "String",
   "description" : "String",
   "domain-name" : "String",
   "domain-id" : "Integer",
   "id" : "Integer",
   "edit-version" : "Integer",
   "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
   "permit-command-list" : {
     "permit-command" : [ "String" ],
     "uri" : "String"
```


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```
    },
    "block-content-type-list" : {
      "block-content-type" : [ "ACTIVEX", "EXE", "JAVA_APPLET", "HTTP_COOKIE", "ZIP" ],
      "uri" : "String"
    },
    "block-file-extension-list" : {
      "block-file-extension" : [ "String" ],
      "uri" : "String"
    },
    "notification-options" : {
      "custom-notification-message" : "String",
      "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
      "custom-notification-subject" : "String",
      "notify-mail-sender" : "Boolean",
      "uri" : "String"
    },
    "block-command-list" : {
      "block-command" : [ "String" ],
      "uri" : "String"
    },
    "block-mime-list" : {
      "block-mime" : [ "String" ],
      "uri" : "String"
    },
    "block-mime-exception-list" : {
      "block-mime-exception" : [ "String" ],
      "uri" : "String"
    },
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<content-filtering-profile>
   <name>String</name>
   <description>String</description>
   <domain-name>String</domain-name>
   <domain-id>Integer</domain-id>
   <id>Integer</id>
   <edit-version>Integer</edit-version>
   <definition-type>Hidden</definition-type>
   <definition-type>Predefined</definition-type>
   <definition-type>Custom</definition-type>
   <definition-type>All</definition-type>
   <permit-command-list>
      <permit-command>String</permit-command>
      <uri>String</uri>
   </permit-command-list>
   <block-content-type-list>
```


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```
    <block-content-type>ACTIVEX</block-content-type>
    <block-content-type>EXE</block-content-type>
    <block-content-type>JAVA_APPLET</block-content-type>
    <block-content-type>HTTP_COOKIE</block-content-type>
    <block-content-type>ZIP</block-content-type>
    <uri>String</uri>
  </block-content-type-list>
  <block-file-extension-list>
    <block-file-extension>String</block-file-extension>
    <uri>String</uri>
  </block-file-extension-list>
  <notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
    <uri>String</uri>
  </notification-options>
  <block-command-list>
    <block-command>String</block-command>
    <uri>String</uri>
  </block-command-list>
  <block-mime-list>
    <block-mime>String</block-mime>
    <uri>String</uri>
  </block-mime-list>
  <block-mime-exception-list>
    <block-mime-exception>String</block-mime-exception>
    <uri>String</uri>
  </block-mime-exception-list>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</content-filtering-profile>
```


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CHAPTER 15

Convert from Traditional to Unified Policies

The following opertions can be performed using Secuirty Director Convert from Traditional to Unified Policies

User has option for selecting Application Signature and IPS Policy

URI	/api/juniper/sd/policy-management/firewall/convert/{any}
HTTP method	POST
Content-Type	application/xml application/json
Accept-Type	application/xml application/json
Access-Control	ModifyPolicy

Sample JSON Input


```
{
  "schedule" : {
    "id" : "int",
    "startTime" : "Date",
    "endTime" : "Date",
    "repetitionsLeft" : "int",
    "repeatAsCron" : "String",
    "repeatInterval" : "String",
    "exceptionInterval" : "String",
    "tzOffsetJan1" : "String",
    "tzOffsetJuly1" : "String",
    "unit" : [ "Milliseconds", "Seconds", "Minutes", "Hours", "Days", "Weeks", "Months", "Years" ],
    "moid" : "String",
    "uuid" : {
      "serialVersionUID" : "long",
      "category" : "String",
      "service" : "String",
```


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```
      "rowId" : "int"
    }
  },
  "name" : "String",
  "appendIdToCustomName" : "boolean",
  "retryCtx" : {
    "serialVersionUID" : "long",
    "oldJobInstanceId" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<schedule>
  <id>int</id>
  <startTime>Date</startTime>
  <endTime>Date</endTime>
  <repetitionsLeft>int</repetitionsLeft>
  <repeatAsCron>String</repeatAsCron>
  <repeatInterval>String</repeatInterval>
  <exceptionInterval>String</exceptionInterval>
  <tzOffsetJan1>String</tzOffsetJan1>
  <tzOffsetJuly1>String</tzOffsetJuly1>
  <unit>Milliseconds</unit>
  <unit>Seconds</unit>
  <unit>Minutes</unit>
  <unit>Hours</unit>
  <unit>Days</unit>
  <unit>Weeks</unit>
  <unit>Months</unit>
  <unit>Years</unit>
  <moid>String</moid>
  <uuid>
    <serialVersionUID>long</serialVersionUID>
    <category>String</category>
    <service>String</service>
    <rowId>int</rowId>
  </uuid>
</schedule>
<name>String</name>
<appendIdToCustomName>boolean</appendIdToCustomName>
<retryCtx>
  <serialVersionUID>long</serialVersionUID>
  <oldJobInstanceId>int</oldJobInstanceId>
</retryCtx>
```

Sample JSON Output:

```
{
  "jobInstanceId" : "String",
  "taskName" : "String",
  "jobState" : [ "SCHEDULED", "QUEUED", "STARTING", "INPROGRESS", "DONE", "CANCELLING",
"DISABLED" ],
  "jobStatus" : [ "UNDETERMINED", "INCOMPLETE", "FAILURE", "SUCCESS", "CANCELLED",
"DEPRECATED" ],
  "endTime" : "Date",
  "scheduledStartTime" : "Date",
  "startTime" : "Date",
  "retryGroupId" : "String",
  "dMsg" : {
    "context" : {
      "schedule" : {
        "id" : "int",
        "startTime" : "Date",
        "endTime" : "Date",
        "repetitionsLeft" : "int",
```


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```
      "repeatAsCron" : "String",
      "repeatInterval" : "String",
      "exceptionInterval" : "String",
      "tzOffsetJan1" : "String",
      "tzOffsetJuly1" : "String",
      "unit" : [ "Milliseconds", "Seconds", "Minutes", "Hours", "Days", "Weeks", "Months", "Years" ],
      "moid" : "String",
      "uuid" : {
        "serialVersionUID" : "long",
        "category" : "String",
        "service" : "String",
        "rowId" : "int"
      }
    },
    "name" : "String",
    "appendIdToCustomName" : "boolean",
    "retryCtx" : {
      "serialVersionUID" : "long",
      "oldJobInstanceId" : "int"
    }
  },
  "data" : "[]",
  "beanJndiName" : "String",
  "operation" : "String",
  "isCallbackMessage" : "boolean"
 },
 "jobCategory" : [ "SIMPLE", "COMPLEX" ],
 "callbackUrl" : "String",
 "name" : "String",
 "subJobName" : "String"
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<jobInstanceId>String</jobInstanceId>
<taskName>String</taskName>
<jobState>SCHEDULED</jobState>
<jobState>QUEUED</jobState>
<jobState>STARTING</jobState>
<jobState>INPROGRESS</jobState>
<jobState>DONE</jobState>
<jobState>CANCELLING</jobState>
<jobState>DISABLED</jobState>
<jobStatus>UNDETERMINED</jobStatus>
<jobStatus>INCOMPLETE</jobStatus>
<jobStatus>FAILURE</jobStatus>
<jobStatus>SUCCESS</jobStatus>
<jobStatus>CANCELLED</jobStatus>
<jobStatus>DEPRECATED</jobStatus>
<endTime>Date</endTime>
<scheduledStartTime>Date</scheduledStartTime>
<startTime>Date</startTime>
<retryGroupId>String</retryGroupId>
<dMsg>
  <context>
    <schedule>
      <id>int</id>
      <startTime>Date</startTime>
      <endTime>Date</endTime>
      <repetitionsLeft>int</repetitionsLeft>
      <repeatAsCron>String</repeatAsCron>
      <repeatInterval>String</repeatInterval>
      <exceptionInterval>String</exceptionInterval>
```


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```
        <tzOffsetJan1>String</tzOffsetJan1>
        <tzOffsetJuly1>String</tzOffsetJuly1>
        <unit>Milliseconds</unit>
        <unit>Seconds</unit>
        <unit>Minutes</unit>
        <unit>Hours</unit>
        <unit>Days</unit>
        <unit>Weeks</unit>
        <unit>Months</unit>
        <unit>Years</unit>
        <moid>String</moid>
        <uuid>
          <serialVersionUID>long</serialVersionUID>
          <category>String</category>
          <service>String</service>
          <rowId>int</rowId>
        </uuid>
      </schedule>
      <name>String</name>
      <appendIdToCustomName>boolean</appendIdToCustomName>
      <retryCtx>
        <serialVersionUID>long</serialVersionUID>
        <oldJobInstanceId>int</oldJobInstanceId>
      </retryCtx>
    </context>
    <data>[]</data>
    <beanJndiName>String</beanJndiName>
    <operation>String</operation>
    <isCallbackMessage>boolean</isCallbackMessage>
  </dMsg>
  <jobCategory>SIMPLE</jobCategory>
  <jobCategory>COMPLEX</jobCategory>
  <callbackUrl>String</callbackUrl>
  <name>String</name>
  <subJobName>String</subJobName>
```


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CHAPTER 16

DNS Sinkhole Management RESTful Web Services

The following opertions can be performed using Secuirty Director DNS Sinkhole Management RESTful Web Services

Publish DNS Sinkhole Configurations

Initiates the publication of specified DNS Sinkhole configurations to relevant devices.

URI	/api/juniper/sd/dns-sinkhole-management/provisioning/publish-sinkhole?update=boolean
HTTP method	POST
Content-Type	application/vnd.juniper.sd.dns-sinkhole-management.publish+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.dns-sinkhole-management.publish+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.dnssinkhole-provisioning.monitorable-task-instances+xml;version=1;q=0.01 application/vnd.juniper.sd.dnssinkhole-provisioning.monitorable-task-instances+json;version=1;q=0.01
Access-Control	publishDNSSinkhole

Sample JSON Input

```
{
  "publish" : {
    "policy-ids" : {
      "policy-id" : [ "Integer" ]
    },
    "delete-oldest-snapshot" : "Boolean"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<publish>
  <policy-ids>
    <policy-id>Integer</policy-id>
  </policy-ids>
  <delete-oldest-snapshot>Boolean</delete-oldest-snapshot>
</publish>
```

Sample JSON Output:


```
{
  "monitorable-task-instances" : {
    "monitorable-task-instance-managed-object" : [ {
      "supports-recurrence" : "Boolean",
      "repeat-cron" : "String",
      "mo-state" : "String",
      "schedule-string" : "String",
      "job-status" : [ "UNDETERMINED", "INCOMPLETE", "FAILURE", "SUCCESS", "CANCELLED",
"DEPRECATED" ],
      "job-parameter-data-string" : "String",
      "gui-name" : "String",
      "job-state" : [ "SCHEDULED", "QUEUED", "STARTING", "INPROGRESS", "DONE", "CANCELLING",
"DISABLED" ],
      "start-time-string-rest" : "String",
      "device-image-name" : "String",
      "end-time" : "Date",
      "task-name" : "String",
      "service-name" : "String",
      "id" : "String",
      "start-time" : "Date",
      "operation" : "String",
      "details" : "String",
      "details-action-type" : "String",
      "name" : "String",
      "scheduled-start-time-string-rest" : "String",
      "retry-of-id" : "Integer",
      "scheduled-start-time" : "Date",
      "script-bundle-selected" : "String",
      "details-action-url" : "String",
      "end-time-string-rest" : "String",
      "job-params-action-url" : "String",
      "percent-complete" : "Double",
      "is-enabled" : "Boolean",
      "retry-group-id" : "Integer",
      "job-params-summary" : "String",
      "complete-time" : "Integer",
      "user" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<monitorable-task-instances>
  <monitorable-task-instance-managed-object>
    <supports-recurrence>Boolean</supports-recurrence>
    <repeat-cron>String</repeat-cron>
    <mo-state>String</mo-state>
    <schedule-string>String</schedule-string>
    <job-status>UNDETERMINED</job-status>
    <job-status>INCOMPLETE</job-status>
    <job-status>FAILURE</job-status>
    <job-status>SUCCESS</job-status>
    <job-status>CANCELLED</job-status>
    <job-status>DEPRECATED</job-status>
    <job-parameter-data-string>String</job-parameter-data-string>
    <gui-name>String</gui-name>
    <job-state>SCHEDULED</job-state>
    <job-state>QUEUED</job-state>
    <job-state>STARTING</job-state>
    <job-state>INPROGRESS</job-state>
    <job-state>DONE</job-state>
    <job-state>CANCELLING</job-state>
    <job-state>DISABLED</job-state>
    <start-time-string-rest>String</start-time-string-rest>
    <device-image-name>String</device-image-name>
    <end-time>Date</end-time>
    <task-name>String</task-name>
    <service-name>String</service-name>
    <id>String</id>
    <start-time>Date</start-time>
    <operation>String</operation>
    <details>String</details>
    <details-action-type>String</details-action-type>
    <name>String</name>
    <scheduled-start-time-string-rest>String</scheduled-start-time-string-rest>
    <retry-of-id>Integer</retry-of-id>
    <scheduled-start-time>Date</scheduled-start-time>
    <script-bundle-selected>String</script-bundle-selected>
    <details-action-url>String</details-action-url>
    <end-time-string-rest>String</end-time-string-rest>
    <job-params-action-url>String</job-params-action-url>
    <percent-complete>Double</percent-complete>
    <is-enabled>Boolean</is-enabled>
    <retry-group-id>Integer</retry-group-id>
    <job-params-summary>String</job-params-summary>
    <complete-time>Integer</complete-time>
    <user>String</user>
    <uri>String</uri>
  </monitorable-task-instance-managed-object>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</monitorable-task-instances>
```

Update DNS Sinkhole Device Assignment

Assigns or updates the list of devices to which a DNS Sinkhole applies.

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URI	/api/juniper/sd/dns-sinkhole-management/dns-sinkholes/{sinkhole-id}/assign-devices
HTTP method	PUT
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	modifyDNSSinkholeDeviceAssignment

Sample JSON Input

```
{
  "id-list" : {
    "ids" : [ "Integer" ],
    "total" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
   <total>int</total>
</id-list>
```

Sample JSON Output:

```
{
  "dns-sinkhole" : {
    "id" : "Integer",
    "domain-id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "uuid" : "String",
    "moid" : "String",
    "name" : "String",
    "fullyQualifiedDomainName" : "String",
    "dnsResponseTTL" : "Integer",
    "ipv4Address" : "String",
```


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```
    "ipv6Address" : "String",
    "serverReponseErrorCode" : "String",
    "textReponseErrorCode" : "String",
    "wildcardingLevel" : "Integer",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "ip" : "String",
        "uri" : "String",
        "link" : "String",
        "device-type" : "String"
      } ],
      "uri" : "String"
    }
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<dns-sinkhole>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <uuid>String</uuid>
  <moid>String</moid>
  <name>String</name>
  <fullyQualifiedDomainName>String</fullyQualifiedDomainName>
  <dnsResponseTTL>Integer</dnsResponseTTL>
  <ipv4Address>String</ipv4Address>
  <ipv6Address>String</ipv6Address>
  <serverReponseErrorCode>String</serverReponseErrorCode>
  <textReponseErrorCode>String</textReponseErrorCode>
  <wildcardingLevel>Integer</wildcardingLevel>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <ip>String</ip>
      <uri>String</uri>
      <link>String</link>
      <device-type>String</device-type>
    </device-lite>
    <uri>String</uri>
```


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```
    </device-list>
</dns-sinkhole>
```

Update DNS Sinkhole

Modifies an existing DNS Sinkhole configuration.

URI	/api/juniper/sd/dns-sinkhole-management/dns-sinkholes/{id}
HTTP method	PUT
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	modifyDNSSinkhole

Sample JSON Input

```
{
  "dns-sinkhole" : {
    "id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "uuid" : "String",
    "moid" : "String",
    "name" : "String",
    "fullyQualifiedDomainName" : "String",
    "dnsResponseTTL" : "Integer",
    "ipv4Address" : "String",
    "ipv6Address" : "String",
    "serverReponseErrorCode" : "String",
    "textReponseErrorCode" : "String",
```


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```
    "wildcardingLevel" : "Integer",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "name" : "String",
        "ip" : "String",
        "device-type" : "String"
      } ]
    }
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<dns-sinkhole>
  <id>Integer</id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <uuid>String</uuid>
  <moid>String</moid>
  <name>String</name>
  <fullyQualifiedDomainName>String</fullyQualifiedDomainName>
  <dnsResponseTTL>Integer</dnsResponseTTL>
  <ipv4Address>String</ipv4Address>
  <ipv6Address>String</ipv6Address>
  <serverReponseErrorCode>String</serverReponseErrorCode>
  <textReponseErrorCode>String</textReponseErrorCode>
  <wildcardingLevel>Integer</wildcardingLevel>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
      <device-type>String</device-type>
    </device-lite>
  </device-list>
</dns-sinkhole>
```

Sample JSON Output:

```
{
 "dns-sinkhole" : {
   "id" : "Integer",
   "domain-id" : "Integer",
   "editVersion" : "Integer",
   "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
   "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
   "createdByUserName" : "String",
   "lastModifiedByUserName" : "String",
   "createdTime" : "Date",
   "lastModifiedTime" : "Date",
```


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```
    "version" : "Integer",
    "owningSystem" : "String",
    "uuid" : "String",
    "moid" : "String",
    "name" : "String",
    "fullyQualifiedDomainName" : "String",
    "dnsResponseTTL" : "Integer",
    "ipv4Address" : "String",
    "ipv6Address" : "String",
    "serverReponseErrorCode" : "String",
    "textReponseErrorCode" : "String",
    "wildcardingLevel" : "Integer",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "ip" : "String",
        "uri" : "String",
        "link" : "String",
        "device-type" : "String"
      } ],
      "uri" : "String"
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dns-sinkhole>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <uuid>String</uuid>
  <moid>String</moid>
  <name>String</name>
  <fullyQualifiedDomainName>String</fullyQualifiedDomainName>
  <dnsResponseTTL>Integer</dnsResponseTTL>
  <ipv4Address>String</ipv4Address>
  <ipv6Address>String</ipv6Address>
  <serverReponseErrorCode>String</serverReponseErrorCode>
  <textReponseErrorCode>String</textReponseErrorCode>
  <wildcardingLevel>Integer</wildcardingLevel>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
```


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```
      <name>String</name>
      <domain-name>String</domain-name>
      <ip>String</ip>
      <uri>String</uri>
      <link>String</link>
      <device-type>String</device-type>
    </device-lite>
    <uri>String</uri>
  </device-list>
</dns-sinkhole>
```

Get DNS Sinkhole by ID

Fetches the complete detailed configuration of a specific DNS Sinkhole by its ID.

URI	/api/juniper/sd/dns-sinkhole-management/dns-sinkholes/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageDNSSinkhole

Sample JSON Output:

```
{
  "dns-sinkhole" : {
    "id" : "Integer",
    "domain-id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "uuid" : "String",
    "moid" : "String",
    "name" : "String",
    "fullyQualifiedDomainName" : "String",
    "dnsResponseTTL" : "Integer",
    "ipv4Address" : "String",
    "ipv6Address" : "String",
```


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```
    "serverReponseErrorCode" : "String",
    "textReponseErrorCode" : "String",
    "wildcardingLevel" : "Integer",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "ip" : "String",
        "uri" : "String",
        "link" : "String",
        "device-type" : "String"
      } ],
      "uri" : "String"
    }
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<dns-sinkhole>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <uuid>String</uuid>
  <moid>String</moid>
  <name>String</name>
  <fullyQualifiedDomainName>String</fullyQualifiedDomainName>
  <dnsResponseTTL>Integer</dnsResponseTTL>
  <ipv4Address>String</ipv4Address>
  <ipv6Address>String</ipv6Address>
  <serverReponseErrorCode>String</serverReponseErrorCode>
  <textReponseErrorCode>String</textReponseErrorCode>
  <wildcardingLevel>Integer</wildcardingLevel>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <ip>String</ip>
      <uri>String</uri>
      <link>String</link>
      <device-type>String</device-type>
    </device-lite>
    <uri>String</uri>
  </device-list>
```


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</dns-sinkhole>

Get All DNS Sinkholes (Paginated)

Retrieves a paginated list of all configured DNS Sinkholes.

URI	/api/juniper/sd/dns-sinkhole-management/dns-sinkholes
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageDNSSinkhole

Sample JSON Output:


```
{
  "dns-sinkholes" : {
    "dns-sinkhole" : [ {
      "id" : "Integer",
      "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
      "domain-id" : "Integer",
      "editVersion" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "createdByUserName" : "String",
      "lastModifiedByUserName" : "String",
      "createdTime" : "Date",
      "lastModifiedTime" : "Date",
      "version" : "Integer",
      "owningSystem" : "String",
      "name" : "String",
      "fullyQualifiedDomainName" : "String",
      "dnsResponseTTL" : "Integer",
      "ipv4Address" : "String",
      "ipv6Address" : "String",
      "serverReponseErrorCode" : "String",
      "textReponseErrorCode" : "String",
```


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```
    "wildcardingLevel" : "Integer",
    "uuid" : "String",
    "moid" : "String",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "ip" : "String",
        "uri" : "String",
        "link" : "String"
      } ],
      "uri" : "String"
    }
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dns-sinkholes>
  <dns-sinkhole>
    <id>Integer</id>
    <publish-state>Not Published</publish-state>
    <publish-state>Partially Published</publish-state>
    <publish-state>Published</publish-state>
    <publish-state>Re-Publish Required</publish-state>
    <publish-state>Deleted</publish-state>
    <domain-id>Integer</domain-id>
    <editVersion>Integer</editVersion>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <createdByUserName>String</createdByUserName>
    <lastModifiedByUserName>String</lastModifiedByUserName>
    <createdTime>Date</createdTime>
    <lastModifiedTime>Date</lastModifiedTime>
    <version>Integer</version>
    <owningSystem>String</owningSystem>
    <name>String</name>
    <fullyQualifiedDomainName>String</fullyQualifiedDomainName>
    <dnsResponseTTL>Integer</dnsResponseTTL>
    <ipv4Address>String</ipv4Address>
    <ipv6Address>String</ipv6Address>
    <serverReponseErrorCode>String</serverReponseErrorCode>
    <textReponseErrorCode>String</textReponseErrorCode>
    <wildcardingLevel>Integer</wildcardingLevel>
    <uuid>String</uuid>
    <moid>String</moid>
    <device-list>
      <device-lite>
        <id>Integer</id>
        <domain-id>Integer</domain-id>
        <name>String</name>
        <domain-name>String</domain-name>
        <ip>String</ip>
        <uri>String</uri>
        <link>String</link>
      </device-lite>
```


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```
      <uri>String</uri>
    </device-list>
  </dns-sinkhole>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</dns-sinkholes>
```

Delete DNS Sinkhole

Deletes a specific DNS Sinkhole configuration by its ID.

URI	/api/juniper/sd/dns-sinkhole-management/dns-sinkholes/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteDNSSinkhole

Create DNS Sinkhole

Creates a new DNS Sinkhole configuration.

URI	/api/juniper/sd/dns-sinkhole-management/dns-sinkholes
HTTP method	POST
Content-Type	application/json application/xml

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Accept-Type	application/json application/xml
Access-Control	createDNSSinkhole

Sample JSON Input

```
{
  "dns-sinkhole" : {
    "id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "uuid" : "String",
    "moid" : "String",
    "name" : "String",
    "fullyQualifiedDomainName" : "String",
    "dnsResponseTTL" : "Integer",
    "ipv4Address" : "String",
    "ipv6Address" : "String",
    "serverReponseErrorCode" : "String",
    "textReponseErrorCode" : "String",
    "wildcardingLevel" : "Integer",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "name" : "String",
        "ip" : "String",
        "device-type" : "String"
      } ]
    }
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<dns-sinkhole>
  <id>Integer</id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
```


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```
  <uuid>String</uuid>
  <moid>String</moid>
  <name>String</name>
  <fullyQualifiedDomainName>String</fullyQualifiedDomainName>
  <dnsResponseTTL>Integer</dnsResponseTTL>
  <ipv4Address>String</ipv4Address>
  <ipv6Address>String</ipv6Address>
  <serverReponseErrorCode>String</serverReponseErrorCode>
  <textReponseErrorCode>String</textReponseErrorCode>
  <wildcardingLevel>Integer</wildcardingLevel>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
      <device-type>String</device-type>
    </device-lite>
  </device-list>
</dns-sinkhole>
```

Sample JSON Output:

```
{
  "dns-sinkhole" : {
    "id" : "Integer",
    "domain-id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "uuid" : "String",
    "moid" : "String",
    "name" : "String",
    "fullyQualifiedDomainName" : "String",
    "dnsResponseTTL" : "Integer",
    "ipv4Address" : "String",
    "ipv6Address" : "String",
    "serverReponseErrorCode" : "String",
    "textReponseErrorCode" : "String",
    "wildcardingLevel" : "Integer",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "ip" : "String",
        "uri" : "String",
        "link" : "String",
        "device-type" : "String"
      } ],
      "uri" : "String"
    }
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<dns-sinkhole>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <uuid>String</uuid>
  <moid>String</moid>
  <name>String</name>
  <fullyQualifiedDomainName>String</fullyQualifiedDomainName>
  <dnsResponseTTL>Integer</dnsResponseTTL>
  <ipv4Address>String</ipv4Address>
  <ipv6Address>String</ipv6Address>
  <serverReponseErrorCode>String</serverReponseErrorCode>
  <textReponseErrorCode>String</textReponseErrorCode>
  <wildcardingLevel>Integer</wildcardingLevel>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <ip>String</ip>
      <uri>String</uri>
      <link>String</link>
      <device-type>String</device-type>
    </device-lite>
    <uri>String</uri>
  </device-list>
</dns-sinkhole>
```


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CHAPTER 17

Data Plane Packet Capture Operations

The following opertions can be performed using Secuirty Director Data Plane Packet Capture Operations

Get Packet Capture Status

Retrieves the status of active or recently completed data plane packet capture operations.

URI	/api/juniper/sd/dns-security-management/pcap-status
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	managePacketCapture

Sample JSON Output:


```
{
  "data-plane-pcap" : {
    "serialVersionUID" : "long",
    "pcap-id" : "Integer",
    "device-name" : "String",
    "device-id" : "Integer",
    "protocol" : "String",
    "multitenancy-type" : "String",
    "lsys-device-id" : "Integer",
    "tenant-device-id" : "Integer",
    "ip-interface-id" : "String",
    "tenant-device-name" : "String",
    "lsys-device-name" : "String",
    "ip-interface" : "String",
    "filter" : {
      "bidirectional" : "Boolean",
      "source-port" : "Integer",
```


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```
      "source-prefix" : "String",
      "destination-port" : "Integer",
      "destination-prefix" : "String"
    },
    "additional-options" : {
      "file-name" : "String",
      "max-file-size" : "Integer",
      "max-capture-limit" : "Integer",
      "packet-limit" : "Integer"
    },
    "status" : "String",
    "autoStop" : "Integer",
    "donwloadJobId" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<data-plane-pcap>
  <serialVersionUID>long</serialVersionUID>
  <pcap-id>Integer</pcap-id>
  <device-name>String</device-name>
  <device-id>Integer</device-id>
  <protocol>String</protocol>
  <multitenancy-type>String</multitenancy-type>
  <lsys-device-id>Integer</lsys-device-id>
  <tenant-device-id>Integer</tenant-device-id>
  <ip-interface-id>String</ip-interface-id>
  <tenant-device-name>String</tenant-device-name>
  <lsys-device-name>String</lsys-device-name>
  <ip-interface>String</ip-interface>
  <filter>
    <bidirectional>Boolean</bidirectional>
    <source-port>Integer</source-port>
    <source-prefix>String</source-prefix>
    <destination-port>Integer</destination-port>
    <destination-prefix>String</destination-prefix>
  </filter>
  <additional-options>
    <file-name>String</file-name>
    <max-file-size>Integer</max-file-size>
    <max-capture-limit>Integer</max-capture-limit>
    <packet-limit>Integer</packet-limit>
  </additional-options>
  <status>String</status>
  <autoStop>Integer</autoStop>
  <donwloadJobId>Integer</donwloadJobId>
</data-plane-pcap>
```


Stop Packet Capture

Stops an ongoing data plane packet capture operation.

URI	/api/juniper/sd/dns-security-management/stop-pcap?pcapId=Integer

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HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	managePacketCapture

Sample JSON Output:


```
{
  "data-plane-pcap" : {
    "serialVersionUID" : "long",
    "pcap-id" : "Integer",
    "device-name" : "String",
    "device-id" : "Integer",
    "protocol" : "String",
    "multitenancy-type" : "String",
    "lsys-device-id" : "Integer",
    "tenant-device-id" : "Integer",
    "ip-interface-id" : "String",
    "tenant-device-name" : "String",
    "lsys-device-name" : "String",
    "ip-interface" : "String",
    "filter" : {
      "bidirectional" : "Boolean",
      "source-port" : "Integer",
      "source-prefix" : "String",
      "destination-port" : "Integer",
      "destination-prefix" : "String"
    },
    "additional-options" : {
      "file-name" : "String",
      "max-file-size" : "Integer",
      "max-capture-limit" : "Integer",
      "packet-limit" : "Integer"
    },
    "status" : "String",
    "autoStop" : "Integer",
    "donwloadJobId" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<data-plane-pcap>
    <serialVersionUID>long</serialVersionUID>
    <pcap-id>Integer</pcap-id>
    <device-name>String</device-name>
    <device-id>Integer</device-id>
    <protocol>String</protocol>
    <multitenancy-type>String</multitenancy-type>
    <lsys-device-id>Integer</lsys-device-id>
    <tenant-device-id>Integer</tenant-device-id>
```


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```
    <ip-interface-id>String</ip-interface-id>
    <tenant-device-name>String</tenant-device-name>
    <lsys-device-name>String</lsys-device-name>
    <ip-interface>String</ip-interface>
    <filter>
      <bidirectional>Boolean</bidirectional>
      <source-port>Integer</source-port>
      <source-prefix>String</source-prefix>
      <destination-port>Integer</destination-port>
      <destination-prefix>String</destination-prefix>
    </filter>
    <additional-options>
      <file-name>String</file-name>
      <max-file-size>Integer</max-file-size>
      <max-capture-limit>Integer</max-capture-limit>
      <packet-limit>Integer</packet-limit>
    </additional-options>
    <status>String</status>
    <autoStop>Integer</autoStop>
    <donwloadJobId>Integer</donwloadJobId>
  </data-plane-pcap>
```

Start Packet Capture

Initiates a new data plane packet capture operation.

URI	/api/juniper/sd/dns-security-management/start-pcap
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	managePacketCapture

Sample JSON Input

```
{
  "data-plane-pcap" : {
    "serialVersionUID" : "long",
    "pcap-id" : "Integer",
    "device-name" : "String",
    "device-id" : "Integer",
    "protocol" : "String",
    "multitenancy-type" : "String",
    "lsys-device-id" : "Integer",
    "tenant-device-id" : "Integer",
```


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```
    "ip-interface-id" : "String",
    "tenant-device-name" : "String",
    "lsys-device-name" : "String",
    "ip-interface" : "String",
    "filter" : {
      "bidirectional" : "Boolean",
      "source-port" : "Integer",
      "source-prefix" : "String",
      "destination-port" : "Integer",
      "destination-prefix" : "String"
    },
    "additional-options" : {
      "file-name" : "String",
      "max-file-size" : "Integer",
      "max-capture-limit" : "Integer",
      "packet-limit" : "Integer"
    },
    "status" : "String",
    "autoStop" : "Integer",
    "donwloadJobId" : "Integer"
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<data-plane-pcap>
   <serialVersionUID>long</serialVersionUID>
   <pcap-id>Integer</pcap-id>
   <device-name>String</device-name>
   <device-id>Integer</device-id>
   <protocol>String</protocol>
   <multitenancy-type>String</multitenancy-type>
   <lsys-device-id>Integer</lsys-device-id>
   <tenant-device-id>Integer</tenant-device-id>
   <ip-interface-id>String</ip-interface-id>
   <tenant-device-name>String</tenant-device-name>
   <lsys-device-name>String</lsys-device-name>
   <ip-interface>String</ip-interface>
   <filter>
      <bidirectional>Boolean</bidirectional>
      <source-port>Integer</source-port>
      <source-prefix>String</source-prefix>
      <destination-port>Integer</destination-port>
      <destination-prefix>String</destination-prefix>
   </filter>
   <additional-options>
      <file-name>String</file-name>
      <max-file-size>Integer</max-file-size>
      <max-capture-limit>Integer</max-capture-limit>
      <packet-limit>Integer</packet-limit>
   </additional-options>
   <status>String</status>
   <autoStop>Integer</autoStop>
   <donwloadJobId>Integer</donwloadJobId>
</data-plane-pcap>
```


Sample JSON Output:


```
{
  "data-plane-pcap" : {
    "serialVersionUID" : "long",
    "pcap-id" : "Integer",
    "device-name" : "String",
    "device-id" : "Integer",
    "protocol" : "String",
    "multitenancy-type" : "String",
    "lsys-device-id" : "Integer",
```


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```
    "tenant-device-id" : "Integer",
    "ip-interface-id" : "String",
    "tenant-device-name" : "String",
    "lsys-device-name" : "String",
    "ip-interface" : "String",
    "filter" : {
      "bidirectional" : "Boolean",
      "source-port" : "Integer",
      "source-prefix" : "String",
      "destination-port" : "Integer",
      "destination-prefix" : "String"
    },
    "additional-options" : {
      "file-name" : "String",
      "max-file-size" : "Integer",
      "max-capture-limit" : "Integer",
      "packet-limit" : "Integer"
    },
    "status" : "String",
    "autoStop" : "Integer",
    "donwloadJobId" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<data-plane-pcap>
   <serialVersionUID>long</serialVersionUID>
   <pcap-id>Integer</pcap-id>
   <device-name>String</device-name>
   <device-id>Integer</device-id>
   <protocol>String</protocol>
   <multitenancy-type>String</multitenancy-type>
   <lsys-device-id>Integer</lsys-device-id>
   <tenant-device-id>Integer</tenant-device-id>
   <ip-interface-id>String</ip-interface-id>
   <tenant-device-name>String</tenant-device-name>
   <lsys-device-name>String</lsys-device-name>
   <ip-interface>String</ip-interface>
   <filter>
      <bidirectional>Boolean</bidirectional>
      <source-port>Integer</source-port>
      <source-prefix>String</source-prefix>
      <destination-port>Integer</destination-port>
      <destination-prefix>String</destination-prefix>
   </filter>
   <additional-options>
      <file-name>String</file-name>
      <max-file-size>Integer</max-file-size>
      <max-capture-limit>Integer</max-capture-limit>
      <packet-limit>Integer</packet-limit>
   </additional-options>
   <status>String</status>
   <autoStop>Integer</autoStop>
   <donwloadJobId>Integer</donwloadJobId>
</data-plane-pcap>
```


Initiate Packet Capture Download

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Initiates the download of a captured data plane packet capture file.

URI	/api/juniper/sd/dns-security-management/initiate-pcap-download?pcapId=Integer&forceDownload=Boolean
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	managePacketCapture

Sample JSON Output:


```
{
  "monitorable-task-instances" : {
    "monitorable-task-instance-managed-object" : [ {
      "supports-recurrence" : "Boolean",
      "repeat-cron" : "String",
      "mo-state" : "String",
      "schedule-string" : "String",
      "job-status" : [ "UNDETERMINED", "INCOMPLETE", "FAILURE", "SUCCESS", "CANCELLED",
"DEPRECATED" ],
      "job-parameter-data-string" : "String",
      "gui-name" : "String",
      "job-state" : [ "SCHEDULED", "QUEUED", "STARTING", "INPROGRESS", "DONE", "CANCELLING",
"DISABLED" ],
      "start-time-string-rest" : "String",
      "device-image-name" : "String",
      "end-time" : "Date",
      "task-name" : "String",
      "service-name" : "String",
      "id" : "String",
      "start-time" : "Date",
      "operation" : "String",
      "details" : "String",
      "details-action-type" : "String",
      "name" : "String",
      "scheduled-start-time-string-rest" : "String",
      "retry-of-id" : "Integer",
      "scheduled-start-time" : "Date",
      "script-bundle-selected" : "String",
      "details-action-url" : "String",
      "end-time-string-rest" : "String",
      "job-params-action-url" : "String",
      "percent-complete" : "Double",
      "is-enabled" : "Boolean",
      "retry-group-id" : "Integer",
      "job-params-summary" : "String",
      "complete-time" : "Integer",
```


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```
      "user" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<monitorable-task-instances>
  <monitorable-task-instance-managed-object>
    <supports-recurrence>Boolean</supports-recurrence>
    <repeat-cron>String</repeat-cron>
    <mo-state>String</mo-state>
    <schedule-string>String</schedule-string>
    <job-status>UNDETERMINED</job-status>
    <job-status>INCOMPLETE</job-status>
    <job-status>FAILURE</job-status>
    <job-status>SUCCESS</job-status>
    <job-status>CANCELLED</job-status>
    <job-status>DEPRECATED</job-status>
    <job-parameter-data-string>String</job-parameter-data-string>
    <gui-name>String</gui-name>
    <job-state>SCHEDULED</job-state>
    <job-state>QUEUED</job-state>
    <job-state>STARTING</job-state>
    <job-state>INPROGRESS</job-state>
    <job-state>DONE</job-state>
    <job-state>CANCELLING</job-state>
    <job-state>DISABLED</job-state>
    <start-time-string-rest>String</start-time-string-rest>
    <device-image-name>String</device-image-name>
    <end-time>Date</end-time>
    <task-name>String</task-name>
    <service-name>String</service-name>
    <id>String</id>
    <start-time>Date</start-time>
    <operation>String</operation>
    <details>String</details>
    <details-action-type>String</details-action-type>
    <name>String</name>
    <scheduled-start-time-string-rest>String</scheduled-start-time-string-rest>
    <retry-of-id>Integer</retry-of-id>
    <scheduled-start-time>Date</scheduled-start-time>
    <script-bundle-selected>String</script-bundle-selected>
    <details-action-url>String</details-action-url>
    <end-time-string-rest>String</end-time-string-rest>
    <job-params-action-url>String</job-params-action-url>
    <percent-complete>Double</percent-complete>
    <is-enabled>Boolean</is-enabled>
    <retry-group-id>Integer</retry-group-id>
    <job-params-summary>String</job-params-summary>
    <complete-time>Integer</complete-time>
    <user>String</user>
    <uri>String</uri>
  </monitorable-task-instance-managed-object>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</monitorable-task-instances>
```


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Get Available Devices

Retrieves a list of devices that are available for management or configuration.

URI	/api/juniper/sd/dns-security-management/available-devices?includeMx=Boolean
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageDevices

Sample JSON Output:


```
{
  "devices" : {
    "device" : [ {
      "domain-id" : "Integer",
      "device-type" : [ "LSYS", "ROOT", "TSYS" ],
      "software-release" : "String",
      "device-name" : "String",
      "device-ip" : "String",
      "serial-number" : "String",
      "id" : "Integer",
      "name" : "String",
      "display-name" : "String",
      "connection-status" : "String",
      "domain-name" : "String",
      "management-status" : [ "Managed", "In Sync", "SD Changed", "Device Changed", "SD Changed
Device Changed" ],
      "device-family" : "String",
      "platform" : "String",
      "configuration-status" : "String",
      "cluster" : "Boolean",
      "root-device-name" : "String",
      "lsys-count" : "Integer",
      "tsys-count" : "Integer",
      "uri" : "String",
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<devices>
  <device>
    <domain-id>Integer</domain-id>
    <device-type>LSYS</device-type>
    <device-type>ROOT</device-type>
    <device-type>TSYS</device-type>
    <software-release>String</software-release>
    <device-name>String</device-name>
    <device-ip>String</device-ip>
    <serial-number>String</serial-number>
    <id>Integer</id>
    <name>String</name>
    <display-name>String</display-name>
    <connection-status>String</connection-status>
    <domain-name>String</domain-name>
    <management-status>Managed</management-status>
    <management-status>In Sync</management-status>
    <management-status>SD Changed</management-status>
    <management-status>Device Changed</management-status>
    <management-status>SD Changed Device Changed</management-status>
    <device-family>String</device-family>
    <platform>String</platform>
    <configuration-status>String</configuration-status>
    <cluster>Boolean</cluster>
    <root-device-name>String</root-device-name>
    <lsys-count>Integer</lsys-count>
    <tsys-count>Integer</tsys-count>
    <uri>String</uri>
    <link>String</link>
  </device>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</devices>
```


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CHAPTER 18

Deployment Provisioning Management RESTful Web Services

The following opertions can be performed using Secuirty Director Deployment Provisioning Management RESTful Web Services

Create New Deployment Information

Creates a new deployment information record in the system.

URI	/api/juniper/sd/provisioning//deploy-info
HTTP method	POST
Content-Type	application/vnd.net.juniper.sd.provisioning.deploy-info.deployment-info-request+xml;version=1;charset=UTF-8 application/vnd.net.juniper.sd.provisioning.deploy-info.deployment-info-request+json;version=1;charset=UTF-8
Accept-Type	application/vnd.net.juniper.sd.provisioning.deploy-info.deployment-info-response+xml;version=1;q=0.01 application/vnd.net.juniper.sd.provisioning.deploy-info.deployment-info-response+json;version=1;q=0.01
Access-Control	null

Sample JSON Input

```
{
  "deployment-info" : {
    "job-uuid" : "String",
    "snapshot-uuid" : "String",
    "schedule-uuid" : "String",
    "id" : "Integer",
    "policy-uuid" : "String"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<deployment-info>
   <job-uuid>String</job-uuid>
   <snapshot-uuid>String</snapshot-uuid>
   <schedule-uuid>String</schedule-uuid>
   <id>Integer</id>
   <policy-uuid>String</policy-uuid>
</deployment-info>
```

Sample JSON Output:

```
{
  "deployment-info-response" : {
    "value" : "Integer"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<deployment-info-response>
   <value>Integer</value>
</deployment-info-response>
```

Retrieve Deployment Information by Policy UUID

Fetches deployment information associated with a specific policy UUID.

URI	/api/juniper/sd/provisioning//deploy-info/policy-uuid/{policy-uuid}
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	null

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Sample JSON Output:


```
{
  "deployment-info" : {
    "job-uuid" : "String",
    "snapshot-uuid" : "String",
    "schedule-uuid" : "String",
    "id" : "Integer",
    "policy-uuid" : "String",
    "uri" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<deployment-info>
   <job-uuid>String</job-uuid>
   <snapshot-uuid>String</snapshot-uuid>
   <schedule-uuid>String</schedule-uuid>
   <id>Integer</id>
   <policy-uuid>String</policy-uuid>
   <uri>String</uri>
</deployment-info>
```


Retrieve Deployment Information by ID

Fetches detailed deployment information for a specific deployment record by its unique ID.

URI	/api/juniper/sd/provisioning//deploy-info/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	null

Sample JSON Output:


```
{
  "deployment-info" : {
    "job-uuid" : "String",
    "snapshot-uuid" : "String",
    "schedule-uuid" : "String",
    "id" : "Integer",
    "policy-uuid" : "String",
    "uri" : "String"
```


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```
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<deployment-info>
   <job-uuid>String</job-uuid>
   <snapshot-uuid>String</snapshot-uuid>
   <schedule-uuid>String</schedule-uuid>
   <id>Integer</id>
   <policy-uuid>String</policy-uuid>
   <uri>String</uri>
</deployment-info>
```

Update Device-Specific Deployment Information

Updates the deployment status and details for a specific device within a policy and job-based deployment.

URI	/api/juniper/sd/provisioning//deploy-info/policy-uuid/{policy-uuid}/job-uuid/{job-uuid}/device-info
HTTP method	POST
Content-Type	application/vnd.net.juniper.sd.provisioning.deploy-info.update-device-info-request+xml;version=1;charset=UTF-8 application/vnd.net.juniper.sd.provisioning.deploy-info.update-device-info-request+json;version=1;charset=UTF-8
Accept-Type	None
Access-Control	null

Sample JSON Input

```
{
  "device-info" : {
    "device-uuid" : "String",
    "task-path" : "String",
    "site-uuid" : "String"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<device-info>
  <device-uuid>String</device-uuid>
  <task-path>String</task-path>
  <site-uuid>String</site-uuid>
</device-info>
```

Update Device-Specific Deployment Information by Deployment ID

Updates the deployment status and details for a specific device within a deployment identified by its ID.

URI	/api/juniper/sd/provisioning//deploy-info/{id}/device-info
HTTP method	POST
Content-Type	application/vnd.net.juniper.sd.provisioning.deploy-info.update-device-info-request+xml;version=1;charset=UTF-8 application/vnd.net.juniper.sd.provisioning.deploy-info.update-device-info-request+json;version=1;charset=UTF-8
Accept-Type	None
Access-Control	null

Sample JSON Input

```
{
  "device-info" : {
    "device-uuid" : "String",
    "task-path" : "String",
    "site-uuid" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<device-info>
  <device-uuid>String</device-uuid>
  <task-path>String</task-path>
  <site-uuid>String</site-uuid>
</device-info>
```


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CHAPTER 19

Device Interface Item Selector Management RESTful Web Services

The following opertions can be performed using Secuirty Director Device Interface Item Selector Management RESTful Web Services

Get Available Interfaces

Retrieves the list of network interfaces available for selection for a given store ID within the item selector.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/available-interfaces?resetStore=boolean
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.interface-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.interface-refs+json;version=1;q=0.01
Access-Control	VPN.read

Sample JSON Output:

```
{
  "device-interfaces" : {
    "interfaces" : [ {
      "name" : "String",
      "id" : "String",
      "description" : "String",
      "ip" : "String",
      "netmask" : "String"
    } ],
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<device-interfaces>
  <interfaces>
    <name>String</name>
    <id>String</id>
    <description>String</description>
    <ip>String</ip>
    <netmask>String</netmask>
  </interfaces>
  <totalSize>Integer</totalSize>
</device-interfaces>
```

Get VPN Available Interfaces

Retrieves the list of network interfaces specifically available for VPN configuration for a given store ID.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/vpn-available-interfaces?resetStore=boolean
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.interface-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.interface-refs+json;version=1;q=0.01
Access-Control	VPN.read

Sample JSON Output:

```
{
  "device-interfaces" : {
    "interfaces" : [ {
      "name" : "String",
      "id" : "String",
      "description" : "String",
      "ip" : "String",
      "netmask" : "String"
    } ],
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<device-interfaces>
  <interfaces>
    <name>String</name>
    <id>String</id>
    <description>String</description>
    <ip>String</ip>
    <netmask>String</netmask>
  </interfaces>
  <totalSize>Integer</totalSize>
</device-interfaces>
```

Get Selected Interfaces

Retrieves the list of network interfaces currently selected for a given store ID within the item selector.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/selected-interfaces
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.interface-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.interface-refs+json;version=1;q=0.01
Access-Control	VPN.read

Sample JSON Output:

```
{
  "device-interfaces" : {
    "interfaces" : [ {
      "name" : "String",
      "id" : "String",
      "description" : "String",
      "ip" : "String",
      "netmask" : "String"
    } ],
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<device-interfaces>
  <interfaces>
    <name>String</name>
    <id>String</id>
    <description>String</description>
    <ip>String</ip>
    <netmask>String</netmask>
  </interfaces>
  <totalSize>Integer</totalSize>
</device-interfaces>
```

Select Interfaces for Item Selector

Adds specified network interfaces to the selected list for a given store ID within the item selector.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/select
HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.item-selector.interface-names+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.vpn-management.item-selector.interface-names+json;version=1;charset=UTF-8
Accept-Type	None
Access-Control	VPN.create

Sample JSON Input

```
{
  "name-list" : {
    "names" : [ "String" ]
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<name-list>
  <names>String</names>
</name-list>
```

Deselect Interfaces for Item Selector

Removes specified network interfaces from the selected list for a given store ID within the item selector.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/deselect
HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.item-selector.interface-names+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.vpn-management.item-selector.interface-names+json;version=1;charset=UTF-8
Accept-Type	None
Access-Control	VPN.create

Sample JSON Input

```
{
  "name-list" : {
    "names" : [ "String" ]
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<name-list>
  <names>String</names>
</name-list>
```


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Get Available Interface Names for Item Selector

Retrieves a list of names for all network interfaces available for selection for a given store ID.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/available-interface-names
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.interface-names+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.interface-names+json;version=1;q=0.01
Access-Control	VPN.read

Sample JSON Output:

```
{
  "name-list" : {
    "names" : [ "String" ]
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<name-list>
   <names>String</names>
</name-list>
```

Get Selected Interface Names for Item Selector

Retrieves a list of names for network interfaces currently selected for a given store ID.

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URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/selected-interface-names
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.interface-names+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.interface-names+json;version=1;q=0.01
Access-Control	VPN.read

Sample JSON Output:

```
{
  "name-list" : {
    "names" : [ "String" ]
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<name-list>
   <names>String</names>
</name-list>
```


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CHAPTER 20

Device Zone Item Selector Management RESTful Web Services

The following opertions can be performed using Secuirty Director Device Zone Item Selector Management RESTful Web Services

Get Available Zones for Item Selector

Retrieves the list of zones available for selection for a given store ID within the item selector.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/available-zones?resetStore=boolean
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.zone-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.zone-refs+json;version=1;q=0.01
Access-Control	VPN.read

Sample JSON Output:

```
{
  "device-zones" : {
    "zones" : [ {
      "name" : "String",
      "id" : "String"
    } ],
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<device-zones>
  <zones>
    <name>String</name>
    <id>String</id>
  </zones>
  <totalSize>Integer</totalSize>
</device-zones>
```

Get Selected Zones

Retrieves the list of zones currently selected for a given store ID within the item selector.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/selected-zones
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.zone-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.zone-refs+json;version=1;q=0.01
Access-Control	VPN.read

Sample JSON Output:

```
{
  "device-zones" : {
    "zones" : [ {
      "name" : "String",
      "id" : "String"
    } ],
    "totalSize" : "Integer"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<device-zones>
  <zones>
    <name>String</name>
    <id>String</id>
  </zones>
  <totalSize>Integer</totalSize>
</device-zones>
```


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Select Zones for Item Selector

Adds specified zones to the selected list for a given store ID within the item selector.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/select
HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.item-selector.zone-names+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.vpn-management.item-selector.zone-names+json;version=1;charset=UTF-8
Accept-Type	None
Access-Control	VPN.create

Sample JSON Input

```
{
  "name-list" : {
    "names" : [ "String" ]
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<name-list>
   <names>String</names>
</name-list>
```

Deselect Zones for Item Selector

Removes specified zones from the selected list for a given store ID within the item selector.

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URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/deselect
HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.item-selector.zone-names+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.vpn-management.item-selector.zone-names+json;version=1;charset=UTF-8
Accept-Type	None
Access-Control	VPN.create

Sample JSON Input

```
{
  "name-list" : {
    "names" : [ "String" ]
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<name-list>
   <names>String</names>
</name-list>
```

Get Available Zone Names for Item Selector

Retrieves a list of names for all zones available for selection for a given store ID.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/available-zone-names
HTTP method	GET

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Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.zone-names+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.zone-names+json;version=1;q=0.01
Access-Control	VPN.read

Sample JSON Output:

```
{
  "name-list" : {
    "names" : [ "String" ]
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<name-list>
   <names>String</names>
</name-list>
```

Get Selected Zone Names for Item Selector

Retrieves a list of names for zones currently selected for a given store ID.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/selected-zone-names
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.zone-names+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.zone-names+json;version=1;q=0.01

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Access-Control	VPN.read

Sample JSON Output:

```
{
  "name-list" : {
    "names" : [ "String" ]
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<name-list>
   <names>String</names>
</name-list>
```

Get VPN Available Zones

Retrieves the list of zones available for VPN configuration for a given store ID.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/vpn-available-zones?resetStore=boolean
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.zone-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.zone-refs+json;version=1;q=0.01
Access-Control	VPN.read

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Sample JSON Output:


```
{
  "device-zones" : {
    "zones" : [ {
      "name" : "String",
      "id" : "String"
    } ],
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<device-zones>
   <zones>
      <name>String</name>
      <id>String</id>
   </zones>
   <totalSize>Integer</totalSize>
</device-zones>
```


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CHAPTER 21

Dynamic Address Management RESTful Web Services

The following opertions can be performed using Secuirty Director Dynamic Address Management RESTful Web Services

Import Dynamic Address Objects

Imports a collection of Dynamic Address objects into the system.

URI	/api/juniper/sd/policy-management/dynamic-address-management/import
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageAddress

Sample JSON Input

```
{
  "dagoutput" : {
    "value" : [ {
      "countries" : {
        "country" : [ {
          "code" : "String",
          "display-name" : "String"
        } ]
      },
      "negate-selected-countries" : "Boolean",
      "id" : "Integer",
      "description" : "String",
      "update_number" : "int",
      "name" : "String",
      "edit-version" : "Integer",
      "category" : [ "GEO_IP", "CUSTOM_ADDRESS_LIST", "NSX" ],
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
```


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```
    "feed-name" : "String",
    "path" : "String",
    "uuid" : "String",
    "feed-server-name" : "String",
    "updateInterval" : "String",
    "holdInterval" : "String",
    "address-id" : "Integer"
   } ],
   "total" : "int"
 }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<dagoutput>
  <value>
    <countries>
      <country>
        <code>String</code>
        <display-name>String</display-name>
      </country>
    </countries>
    <negate-selected-countries>Boolean</negate-selected-countries>
    <id>Integer</id>
    <description>String</description>
    <update_number>int</update_number>
    <name>String</name>
    <edit-version>Integer</edit-version>
    <category>GEO_IP</category>
    <category>CUSTOM_ADDRESS_LIST</category>
    <category>NSX</category>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <feed-name>String</feed-name>
    <path>String</path>
    <uuid>String</uuid>
    <feed-server-name>String</feed-server-name>
    <updateInterval>String</updateInterval>
    <holdInterval>String</holdInterval>
    <address-id>Integer</address-id>
  </value>
  <total>int</total>
</dagoutput>
```


Sample JSON Output:


```
{
 "dagoutput" : {
   "value" : [ {
    "created-by-user-name" : "String",
    "countries" : {
      "country" : [ {
       "code" : "String",
       "display-name" : "String",
       "uri" : "String"
      } ],
      "uri" : "String"
    },
    "negate-selected-countries" : "Boolean",
    "id" : "Integer",
    "description" : "String",
    "update_number" : "int",
    "domain-id" : "Integer",
    "name" : "String",
    "edit-version" : "Integer",
```


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```
    "domain-name" : "String",
    "last-modified-by-user-name" : "String",
    "category" : [ "GEO_IP", "CUSTOM_ADDRESS_LIST", "NSX" ],
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "feed-name" : "String",
    "path" : "String",
    "uuid" : "String",
    "feed-server-name" : "String",
    "updateInterval" : "String",
    "holdInterval" : "String",
    "uri" : "String",
    "link" : "String",
    "owning-system" : "String",
    "address-id" : "Integer"
   } ],
   "uri" : "String",
   "total" : "int"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dagoutput>
  <value>
    <created-by-user-name>String</created-by-user-name>
    <countries>
      <country>
        <code>String</code>
        <display-name>String</display-name>
        <uri>String</uri>
      </country>
      <uri>String</uri>
    </countries>
    <negate-selected-countries>Boolean</negate-selected-countries>
    <id>Integer</id>
    <description>String</description>
    <update_number>int</update_number>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <edit-version>Integer</edit-version>
    <domain-name>String</domain-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <category>GEO_IP</category>
    <category>CUSTOM_ADDRESS_LIST</category>
    <category>NSX</category>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <feed-name>String</feed-name>
    <path>String</path>
    <uuid>String</uuid>
    <feed-server-name>String</feed-server-name>
    <updateInterval>String</updateInterval>
    <holdInterval>String</holdInterval>
    <uri>String</uri>
    <link>String</link>
    <owning-system>String</owning-system>
    <address-id>Integer</address-id>
  </value>
  <uri>String</uri>
  <total>int</total>
</dagoutput>
```


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Update Dynamic Address

Modifies an existing Dynamic Address identified by its ID.

URI	/api/juniper/sd/policy-management/dynamic-address-management/dynamic-addresses/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.dynamic-address-management.dynamic-address+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.dynamic-address-management.dynamic-address+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.dynamic-address-management.dynamic-address+xml;version=1;q=0.01 application/vnd.juniper.sd.dynamic-address-management.dynamic-address+json;version=1;q=0.01
Access-Control	modifyDynamicAddress

Sample JSON Input

```
{
  "dynamic-address" : {
    "countries" : {
      "country" : [ {
        "code" : "String",
        "display-name" : "String"
      } ]
    },
    "negate-selected-countries" : "Boolean",
    "id" : "Integer",
    "description" : "String",
    "update_number" : "int",
    "name" : "String",
    "edit-version" : "Integer",
    "category" : [ "GEO_IP", "CUSTOM_ADDRESS_LIST", "NSX" ],
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "feed-name" : "String",
    "path" : "String",
    "uuid" : "String",
    "feed-server-name" : "String",
    "updateInterval" : "String",
    "holdInterval" : "String",
    "address-id" : "Integer"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<dynamic-address>
  <countries>
    <country>
      <code>String</code>
      <display-name>String</display-name>
    </country>
  </countries>
  <negate-selected-countries>Boolean</negate-selected-countries>
  <id>Integer</id>
  <description>String</description>
  <update_number>int</update_number>
  <name>String</name>
  <edit-version>Integer</edit-version>
  <category>GEO_IP</category>
  <category>CUSTOM_ADDRESS_LIST</category>
  <category>NSX</category>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <feed-name>String</feed-name>
  <path>String</path>
  <uuid>String</uuid>
  <feed-server-name>String</feed-server-name>
  <updateInterval>String</updateInterval>
  <holdInterval>String</holdInterval>
  <address-id>Integer</address-id>
</dynamic-address>
```

Sample JSON Output:

```
{
  "dynamic-address" : {
    "created-by-user-name" : "String",
    "countries" : {
      "country" : [ {
        "code" : "String",
        "display-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "negate-selected-countries" : "Boolean",
    "id" : "Integer",
    "description" : "String",
    "update_number" : "int",
    "domain-id" : "Integer",
    "name" : "String",
    "edit-version" : "Integer",
    "domain-name" : "String",
    "last-modified-by-user-name" : "String",
    "category" : [ "GEO_IP", "CUSTOM_ADDRESS_LIST", "NSX" ],
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "feed-name" : "String",
    "path" : "String",
    "uuid" : "String",
    "feed-server-name" : "String",
    "updateInterval" : "String",
    "holdInterval" : "String",
    "uri" : "String",
    "link" : "String",
    "owning-system" : "String",
    "address-id" : "Integer"
```


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```
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<dynamic-address>
  <created-by-user-name>String</created-by-user-name>
  <countries>
    <country>
      <code>String</code>
      <display-name>String</display-name>
      <uri>String</uri>
    </country>
    <uri>String</uri>
  </countries>
  <negate-selected-countries>Boolean</negate-selected-countries>
  <id>Integer</id>
  <description>String</description>
  <update_number>int</update_number>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <category>GEO_IP</category>
  <category>CUSTOM_ADDRESS_LIST</category>
  <category>NSX</category>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <feed-name>String</feed-name>
  <path>String</path>
  <uuid>String</uuid>
  <feed-server-name>String</feed-server-name>
  <updateInterval>String</updateInterval>
  <holdInterval>String</holdInterval>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
  <address-id>Integer</address-id>
</dynamic-address>
```

Retrieve Dynamic Address by ID

Fetches the complete detailed configuration of a specific Dynamic Address by its ID.

URI	/api/juniper/sd/policy-management/dynamic-address-management/dynamic-addresses/{id}

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HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.dynamic-address-management.dynamic-address+xml;version=1;q=0.01 application/vnd.juniper.sd.dynamic-address-management.dynamic-address+json;version=1;q=0.01
Access-Control	manageDynamicAddress

Sample JSON Output:


```
{
  "dynamic-address" : {
    "created-by-user-name" : "String",
    "countries" : {
      "country" : [ {
        "code" : "String",
        "display-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "negate-selected-countries" : "Boolean",
    "id" : "Integer",
    "description" : "String",
    "update_number" : "int",
    "domain-id" : "Integer",
    "name" : "String",
    "edit-version" : "Integer",
    "domain-name" : "String",
    "last-modified-by-user-name" : "String",
    "category" : [ "GEO_IP", "CUSTOM_ADDRESS_LIST", "NSX" ],
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "feed-name" : "String",
    "path" : "String",
    "uuid" : "String",
    "feed-server-name" : "String",
    "updateInterval" : "String",
    "holdInterval" : "String",
    "uri" : "String",
    "link" : "String",
    "owning-system" : "String",
    "address-id" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<dynamic-address>
  <created-by-user-name>String</created-by-user-name>
  <countries>
    <country>
      <code>String</code>
      <display-name>String</display-name>
      <uri>String</uri>
    </country>
    <uri>String</uri>
  </countries>
  <negate-selected-countries>Boolean</negate-selected-countries>
  <id>Integer</id>
  <description>String</description>
  <update_number>int</update_number>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <category>GEO_IP</category>
  <category>CUSTOM_ADDRESS_LIST</category>
  <category>NSX</category>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <feed-name>String</feed-name>
  <path>String</path>
  <uuid>String</uuid>
  <feed-server-name>String</feed-server-name>
  <updateInterval>String</updateInterval>
  <holdInterval>String</holdInterval>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
  <address-id>Integer</address-id>
</dynamic-address>
```

Patch Dynamic Address

Applies a partial update to an existing Dynamic Address identified by its ID.

URI	/api/juniper/sd/policy-management/dynamic-address-management/dynamic-addresses/{id}
HTTP method	PATCH
Content-Type	application/vnd.juniper.sd.dynamic-address-management.dynamic-address_patch+xml;version=1;charset=UTF-8

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Accept-Type	application/vnd.juniper.sd.dynamic-address-management.dynamic-address+xml;version=1;q=0.01 application/vnd.juniper.sd.dynamic-address-management.dynamic-address+json;version=1;q=0.01
Access-Control	modifyDynamicAddress

Sample JSON Input

```
{
  "dynamic-address" : {
    "countries" : {
      "country" : [ {
        "code" : "String",
        "display-name" : "String"
      } ]
    },
    "negate-selected-countries" : "Boolean",
    "id" : "Integer",
    "description" : "String",
    "update_number" : "int",
    "name" : "String",
    "edit-version" : "Integer",
    "category" : [ "GEO_IP", "CUSTOM_ADDRESS_LIST", "NSX" ],
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "feed-name" : "String",
    "path" : "String",
    "uuid" : "String",
    "feed-server-name" : "String",
    "updateInterval" : "String",
    "holdInterval" : "String",
    "address-id" : "Integer"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<dynamic-address>
  <countries>
    <country>
      <code>String</code>
      <display-name>String</display-name>
    </country>
  </countries>
  <negate-selected-countries>Boolean</negate-selected-countries>
  <id>Integer</id>
  <description>String</description>
  <update_number>int</update_number>
  <name>String</name>
  <edit-version>Integer</edit-version>
  <category>GEO_IP</category>
  <category>CUSTOM_ADDRESS_LIST</category>
  <category>NSX</category>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <feed-name>String</feed-name>
  <path>String</path>
  <uuid>String</uuid>
```


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```
  <feed-server-name>String</feed-server-name>
  <updateInterval>String</updateInterval>
  <holdInterval>String</holdInterval>
  <address-id>Integer</address-id>
</dynamic-address>
```

Sample JSON Output:

```
{
 "dynamic-address" : {
   "created-by-user-name" : "String",
   "countries" : {
     "country" : [ {
       "code" : "String",
       "display-name" : "String",
       "uri" : "String"
     } ],
     "uri" : "String"
   },
   "negate-selected-countries" : "Boolean",
   "id" : "Integer",
   "description" : "String",
   "update_number" : "int",
   "domain-id" : "Integer",
   "name" : "String",
   "edit-version" : "Integer",
   "domain-name" : "String",
   "last-modified-by-user-name" : "String",
   "category" : [ "GEO_IP", "CUSTOM_ADDRESS_LIST", "NSX" ],
   "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
   "feed-name" : "String",
   "path" : "String",
   "uuid" : "String",
   "feed-server-name" : "String",
   "updateInterval" : "String",
   "holdInterval" : "String",
   "uri" : "String",
   "link" : "String",
   "owning-system" : "String",
   "address-id" : "Integer"
 }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<dynamic-address>
  <created-by-user-name>String</created-by-user-name>
  <countries>
    <country>
      <code>String</code>
      <display-name>String</display-name>
      <uri>String</uri>
    </country>
    <uri>String</uri>
  </countries>
  <negate-selected-countries>Boolean</negate-selected-countries>
  <id>Integer</id>
  <description>String</description>
  <update_number>int</update_number>
  <domain-id>Integer</domain-id>
  <name>String</name>
```


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```
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <category>GEO_IP</category>
  <category>CUSTOM_ADDRESS_LIST</category>
  <category>NSX</category>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <feed-name>String</feed-name>
  <path>String</path>
  <uuid>String</uuid>
  <feed-server-name>String</feed-server-name>
  <updateInterval>String</updateInterval>
  <holdInterval>String</holdInterval>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
  <address-id>Integer</address-id>
</dynamic-address>
```

Retrieve All Dynamic Addresses (Detailed)

Fetches all configured Dynamic Addresses with their full detailed configurations.

URI	/api/juniper/sd/policy-management/dynamic-address-management/get-all-dynamic-addresses
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageDynamicAddress

Sample JSON Output:

```
{
  "dagoutput" : {
    "value" : [ {
      "created-by-user-name" : "String",
      "countries" : {
        "country" : [ {
          "code" : "String",
          "display-name" : "String",
          "uri" : "String"
        } ],
```


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```
      "uri" : "String"
    },
    "negate-selected-countries" : "Boolean",
    "id" : "Integer",
    "description" : "String",
    "update_number" : "int",
    "domain-id" : "Integer",
    "name" : "String",
    "edit-version" : "Integer",
    "domain-name" : "String",
    "last-modified-by-user-name" : "String",
    "category" : [ "GEO_IP", "CUSTOM_ADDRESS_LIST", "NSX" ],
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "feed-name" : "String",
    "path" : "String",
    "uuid" : "String",
    "feed-server-name" : "String",
    "updateInterval" : "String",
    "holdInterval" : "String",
    "uri" : "String",
    "link" : "String",
    "owning-system" : "String",
    "address-id" : "Integer"
   } ],
   "uri" : "String",
   "total" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dagoutput>
  <value>
    <created-by-user-name>String</created-by-user-name>
    <countries>
      <country>
        <code>String</code>
        <display-name>String</display-name>
        <uri>String</uri>
      </country>
      <uri>String</uri>
    </countries>
    <negate-selected-countries>Boolean</negate-selected-countries>
    <id>Integer</id>
    <description>String</description>
    <update_number>int</update_number>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <edit-version>Integer</edit-version>
    <domain-name>String</domain-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <category>GEO_IP</category>
    <category>CUSTOM_ADDRESS_LIST</category>
    <category>NSX</category>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <feed-name>String</feed-name>
    <path>String</path>
    <uuid>String</uuid>
    <feed-server-name>String</feed-server-name>
    <updateInterval>String</updateInterval>
```


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```
    <holdInterval>String</holdInterval>
    <uri>String</uri>
    <link>String</link>
    <owning-system>String</owning-system>
    <address-id>Integer</address-id>
  </value>
  <uri>String</uri>
  <total>int</total>
</dagoutput>
```

Retrieve Dynamic Addresses from Address UUID List

Fetches detailed Dynamic Address objects corresponding to a provided list of UUIDs.

URI	/api/juniper/sd/policy-management/dynamic-address-management/dynamic-addresseses-from-address-list
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageDynamicAddress

Sample JSON Input

```
{
  "input" : {
    "object_uuids" : [ "String" ],
    "flatten" : "boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<input>
  <object_uuids>String</object_uuids>
  <flatten>boolean</flatten>
</input>
```


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Sample JSON Output:


```
{
  "dagoutput" : {
    "value" : [ {
      "created-by-user-name" : "String",
      "countries" : {
        "country" : [ {
          "code" : "String",
          "display-name" : "String",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "negate-selected-countries" : "Boolean",
      "id" : "Integer",
      "description" : "String",
      "update_number" : "int",
      "domain-id" : "Integer",
      "name" : "String",
      "edit-version" : "Integer",
      "domain-name" : "String",
      "last-modified-by-user-name" : "String",
      "category" : [ "GEO_IP", "CUSTOM_ADDRESS_LIST", "NSX" ],
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "feed-name" : "String",
      "path" : "String",
      "uuid" : "String",
      "feed-server-name" : "String",
      "updateInterval" : "String",
      "holdInterval" : "String",
      "uri" : "String",
      "link" : "String",
      "owning-system" : "String",
      "address-id" : "Integer"
    } ],
    "uri" : "String",
    "total" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dagoutput>
  <value>
    <created-by-user-name>String</created-by-user-name>
    <countries>
      <country>
        <code>String</code>
        <display-name>String</display-name>
        <uri>String</uri>
      </country>
      <uri>String</uri>
    </countries>
    <negate-selected-countries>Boolean</negate-selected-countries>
    <id>Integer</id>
    <description>String</description>
    <update_number>int</update_number>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <edit-version>Integer</edit-version>
    <domain-name>String</domain-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <category>GEO_IP</category>
```


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```
    <category>CUSTOM_ADDRESS_LIST</category>
    <category>NSX</category>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <feed-name>String</feed-name>
    <path>String</path>
    <uuid>String</uuid>
    <feed-server-name>String</feed-server-name>
    <updateInterval>String</updateInterval>
    <holdInterval>String</holdInterval>
    <uri>String</uri>
    <link>String</link>
    <owning-system>String</owning-system>
    <address-id>Integer</address-id>
  </value>
  <uri>String</uri>
  <total>int</total>
</dagoutput>
```


Retrieve Dynamic Addresses by UUIDs

Fetches detailed Dynamic Address objects based on a provided list of UUIDs.

URI	/api/juniper/sd/policy-management/dynamic-address-management/dynamic-addresseses-by-uuid
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageDynamicAddress

Sample JSON Input


```
{
  "input" : {
    "object_uuids" : [ "String" ],
    "flatten" : "boolean"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<input>
  <object_uuids>String</object_uuids>
  <flatten>boolean</flatten>
</input>
```

Sample JSON Output:


```
{
  "dagoutput" : {
    "value" : [ {
      "created-by-user-name" : "String",
      "countries" : {
        "country" : [ {
          "code" : "String",
          "display-name" : "String",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "negate-selected-countries" : "Boolean",
      "id" : "Integer",
      "description" : "String",
      "update_number" : "int",
      "domain-id" : "Integer",
      "name" : "String",
      "edit-version" : "Integer",
      "domain-name" : "String",
      "last-modified-by-user-name" : "String",
      "category" : [ "GEO_IP", "CUSTOM_ADDRESS_LIST", "NSX" ],
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "feed-name" : "String",
      "path" : "String",
      "uuid" : "String",
      "feed-server-name" : "String",
      "updateInterval" : "String",
      "holdInterval" : "String",
      "uri" : "String",
      "link" : "String",
      "owning-system" : "String",
      "address-id" : "Integer"
    } ],
    "uri" : "String",
    "total" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dagoutput>
  <value>
    <created-by-user-name>String</created-by-user-name>
    <countries>
      <country>
        <code>String</code>
        <display-name>String</display-name>
        <uri>String</uri>
      </country>
      <uri>String</uri>
    </countries>
    <negate-selected-countries>Boolean</negate-selected-countries>
```


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```
    <id>Integer</id>
    <description>String</description>
    <update_number>int</update_number>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <edit-version>Integer</edit-version>
    <domain-name>String</domain-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <category>GEO_IP</category>
    <category>CUSTOM_ADDRESS_LIST</category>
    <category>NSX</category>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <feed-name>String</feed-name>
    <path>String</path>
    <uuid>String</uuid>
    <feed-server-name>String</feed-server-name>
    <updateInterval>String</updateInterval>
    <holdInterval>String</holdInterval>
    <uri>String</uri>
    <link>String</link>
    <owning-system>String</owning-system>
    <address-id>Integer</address-id>
  </value>
  <uri>String</uri>
  <total>int</total>
</dagoutput>
```


Retrieve All Dynamic Address References (Paginated)

Fetches a paginated list of references to all configured Dynamic Addresses.

URI	/api/juniper/sd/policy-management/dynamic-address-management/dynamic-addresses
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.dynamic-address-management.dynamic-address-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.dynamic-address-management.dynamic-address-refs+json;version=1;q=0.01
Access-Control	manageDynamicAddress

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Sample JSON Output:


```
{
  "dynamic-addresses" : {
    "dynamic-address" : [ {
      "id" : "Integer",
      "domain-id" : "Integer",
      "name" : "String",
      "domain-name" : "String",
      "uri" : "String",
      "link" : "String",
      "owning-system" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer",
    "link" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dynamic-addresses>
   <dynamic-address>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <uri>String</uri>
      <link>String</link>
      <owning-system>String</owning-system>
   </dynamic-address>
   <uri>String</uri>
   <totalSize>Integer</totalSize>
   <link>String</link>
</dynamic-addresses>
```


Delete Dynamic Address

Deletes a specific Dynamic Address from the system by its ID.

URI	/api/juniper/sd/policy-management/dynamic-address-management/dynamic-addresses/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None

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Access-Control	deleteDynamicAddress

Create Dynamic Address

Creates a new Dynamic Address configuration.

URI	/api/juniper/sd/policy-management/dynamic-address-management/dynamic-addresses
HTTP method	POST
Content-Type	application/vnd.juniper.sd.dynamic-address-management.dynamic-address+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.dynamic-address-management.dynamic-address+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.dynamic-address-management.dynamic-address+xml;version=1;q=0.01 application/vnd.juniper.sd.dynamic-address-management.dynamic-address+json;version=1;q=0.01
Access-Control	createDynamicAddress

Sample JSON Input

```
{
  "dynamic-address" : {
    "countries" : {
      "country" : [ {
        "code" : "String",
        "display-name" : "String"
      } ]
    },
    "negate-selected-countries" : "Boolean",
    "id" : "Integer",
    "description" : "String",
    "update_number" : "int",
    "name" : "String",
    "edit-version" : "Integer",
    "category" : [ "GEO_IP", "CUSTOM_ADDRESS_LIST", "NSX" ],
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "feed-name" : "String",
    "path" : "String",
    "uuid" : "String",
    "feed-server-name" : "String",
    "updateInterval" : "String",
    "holdInterval" : "String",
```


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```
    "address-id" : "Integer"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<dynamic-address>
  <countries>
    <country>
      <code>String</code>
      <display-name>String</display-name>
    </country>
  </countries>
  <negate-selected-countries>Boolean</negate-selected-countries>
  <id>Integer</id>
  <description>String</description>
  <update_number>int</update_number>
  <name>String</name>
  <edit-version>Integer</edit-version>
  <category>GEO_IP</category>
  <category>CUSTOM_ADDRESS_LIST</category>
  <category>NSX</category>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <feed-name>String</feed-name>
  <path>String</path>
  <uuid>String</uuid>
  <feed-server-name>String</feed-server-name>
  <updateInterval>String</updateInterval>
  <holdInterval>String</holdInterval>
  <address-id>Integer</address-id>
</dynamic-address>
```

Sample JSON Output:

```
{
  "dynamic-address" : {
    "created-by-user-name" : "String",
    "countries" : {
      "country" : [ {
        "code" : "String",
        "display-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "negate-selected-countries" : "Boolean",
    "id" : "Integer",
    "description" : "String",
    "update_number" : "int",
    "domain-id" : "Integer",
    "name" : "String",
    "edit-version" : "Integer",
    "domain-name" : "String",
    "last-modified-by-user-name" : "String",
    "category" : [ "GEO_IP", "CUSTOM_ADDRESS_LIST", "NSX" ],
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "feed-name" : "String",
```


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```
    "path" : "String",
    "uuid" : "String",
    "feed-server-name" : "String",
    "updateInterval" : "String",
    "holdInterval" : "String",
    "uri" : "String",
    "link" : "String",
    "owning-system" : "String",
    "address-id" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dynamic-address>
  <created-by-user-name>String</created-by-user-name>
  <countries>
    <country>
      <code>String</code>
      <display-name>String</display-name>
      <uri>String</uri>
    </country>
    <uri>String</uri>
  </countries>
  <negate-selected-countries>Boolean</negate-selected-countries>
  <id>Integer</id>
  <description>String</description>
  <update_number>int</update_number>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <category>GEO_IP</category>
  <category>CUSTOM_ADDRESS_LIST</category>
  <category>NSX</category>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <feed-name>String</feed-name>
  <path>String</path>
  <uuid>String</uuid>
  <feed-server-name>String</feed-server-name>
  <updateInterval>String</updateInterval>
  <holdInterval>String</holdInterval>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
  <address-id>Integer</address-id>
</dynamic-address>
```


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CHAPTER 22

Environment Variable Management RESTful Web Services

The following opertions can be performed using Secuirty Director Environment Variable Management RESTful Web Services

Update Environment Variable

Modifies an existing Environment Variable identified by its ID.

URI	/api/juniper/sd/environment-variable/environment-variables/{id}
HTTP method	PUT
Content-Type	application/xml application/json
Accept-Type	application/xml application/json
Access-Control	modifyEnvironmentVariable

Sample JSON Input

```
{
  "environment-variable" : {
    "name" : "String",
    "possible-values" : "String",
    "description" : "String",
    "value-type" : [ "NUMBERS", "NUMBER_RANGE", "TEXT" ],
    "condition-ids" : [ "Integer" ],
    "current-value" : "String",
    "default-value" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ]
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<environment-variable>
  <name>String</name>
  <possible-values>String</possible-values>
  <description>String</description>
  <value-type>NUMBERS</value-type>
  <value-type>NUMBER_RANGE</value-type>
  <value-type>TEXT</value-type>
  <condition-ids>Integer</condition-ids>
  <current-value>String</current-value>
  <default-value>String</default-value>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <version>Integer</version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
</environment-variable>
```

Sample JSON Output:

```
{
 "environment-variable" : {
   "name" : "String",
   "possible-values" : "String",
   "description" : "String",
   "value-type" : [ "NUMBERS", "NUMBER_RANGE", "TEXT" ],
   "condition-ids" : [ "Integer" ],
   "current-value" : "String",
   "default-value" : "String",
   "id" : "Integer",
   "edit-version" : "Integer",
   "created-by-user-name" : "String",
   "last-modified-time" : "Date",
   "created-time" : "Date",
   "version" : "Integer",
   "last-modified-by-user-name" : "String",
   "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
   "domain-id" : "Integer",
   "uri" : "String",
   "link" : "String"
 }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<environment-variable>
  <name>String</name>
  <possible-values>String</possible-values>
  <description>String</description>
  <value-type>NUMBERS</value-type>
  <value-type>NUMBER_RANGE</value-type>
  <value-type>TEXT</value-type>
  <condition-ids>Integer</condition-ids>
  <current-value>String</current-value>
  <default-value>String</default-value>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-time>Date</last-modified-time>
  <created-time>Date</created-time>
  <version>Integer</version>
  <last-modified-by-user-name>String</last-modified-by-user-name>
```


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```
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <domain-id>Integer</domain-id>
  <uri>String</uri>
  <link>String</link>
</environment-variable>
```

Delete Multiple Environment Variables

Deletes multiple Environment Variables from the system in a single bulk operation.

URI	/api/juniper/sd/environment-variable/environment-variables/delete
HTTP method	POST
Content-Type	application/xml application/json
Accept-Type	application/xml application/json
Access-Control	deleteEnvironmentVariable

Sample JSON Input

```
{
  "id-list" : {
    "ids" : [ "Integer" ],
    "total" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
  <ids>Integer</ids>
  <total>int</total>
</id-list>
```


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Retrieve Environment Variable by ID

Fetches the complete detailed configuration of a specific Environment Variable by its ID.

URI	/api/juniper/sd/environment-variable/environment-variables/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	manageEnvironmentVariable

Sample JSON Output:


```
{
  "environment-variable" : {
    "name" : "String",
    "possible-values" : "String",
    "description" : "String",
    "value-type" : [ "NUMBERS", "NUMBER_RANGE", "TEXT" ],
    "condition-ids" : [ "Integer" ],
    "current-value" : "String",
    "default-value" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "created-time" : "Date",
    "version" : "Integer",
    "last-modified-by-user-name" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "domain-id" : "Integer",
    "uri" : "String",
    "link" : "String"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<environment-variable>
  <name>String</name>
  <possible-values>String</possible-values>
  <description>String</description>
  <value-type>NUMBERS</value-type>
  <value-type>NUMBER_RANGE</value-type>
  <value-type>TEXT</value-type>
  <condition-ids>Integer</condition-ids>
  <current-value>String</current-value>
  <default-value>String</default-value>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-time>Date</last-modified-time>
  <created-time>Date</created-time>
  <version>Integer</version>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <domain-id>Integer</domain-id>
  <uri>String</uri>
  <link>String</link>
</environment-variable>
```

Retrieve All Environment Variables (Paginated)

Fetches a paginated list of all configured Environment Variables.

URI	/api/juniper/sd/environment-variable/environment-variables
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	manageEnvironmentVariable

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Sample JSON Output:


```
{
  "environment-variables" : {
    "environment-variable" : [ {
      "edit-version" : "Integer",
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "value" : "String",
      "value-type" : [ "NUMBERS", "NUMBER_RANGE", "TEXT" ],
      "possible-values" : "String",
      "used-in" : "String",
      "name" : "String",
      "created-time" : "Date",
      "global" : "String",
      "domain-name" : "String",
      "version" : "Integer",
      "id" : "Integer",
      "last-modified-by-user-name" : "String",
      "owning-system" : "String",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "domain-id" : "Integer",
      "uri" : "String",
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<environment-variables>
  <environment-variable>
    <edit-version>Integer</edit-version>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <value>String</value>
    <value-type>NUMBERS</value-type>
    <value-type>NUMBER_RANGE</value-type>
    <value-type>TEXT</value-type>
    <possible-values>String</possible-values>
    <used-in>String</used-in>
    <name>String</name>
    <created-time>Date</created-time>
    <global>String</global>
    <domain-name>String</domain-name>
    <version>Integer</version>
    <id>Integer</id>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <owning-system>String</owning-system>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
    <link>String</link>
  </environment-variable>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</environment-variables>
```


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Delete Environment Variable

Deletes a specific Environment Variable from the system by its ID.

URI	/api/juniper/sd/environment-variable/environment-variables/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteEnvironmentVariable

Create Environment Variable

Creates a new Environment Variable configuration.

URI	/api/juniper/sd/environment-variable/environment-variables
HTTP method	POST
Content-Type	application/xml application/json
Accept-Type	application/xml application/json
Access-Control	createEnvironmentVariable

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Sample JSON Input

```
{
  "environment-variable" : {
    "name" : "String",
    "possible-values" : "String",
    "description" : "String",
    "value-type" : [ "NUMBERS", "NUMBER_RANGE", "TEXT" ],
    "condition-ids" : [ "Integer" ],
    "current-value" : "String",
    "default-value" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ]
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<environment-variable>
   <name>String</name>
   <possible-values>String</possible-values>
   <description>String</description>
   <value-type>NUMBERS</value-type>
   <value-type>NUMBER_RANGE</value-type>
   <value-type>TEXT</value-type>
   <condition-ids>Integer</condition-ids>
   <current-value>String</current-value>
   <default-value>String</default-value>
   <id>Integer</id>
   <edit-version>Integer</edit-version>
   <version>Integer</version>
   <definition-type>Hidden</definition-type>
   <definition-type>Predefined</definition-type>
   <definition-type>Custom</definition-type>
   <definition-type>All</definition-type>
</environment-variable>
```

Sample JSON Output:

```
{
  "environment-variable" : {
    "name" : "String",
    "possible-values" : "String",
    "description" : "String",
    "value-type" : [ "NUMBERS", "NUMBER_RANGE", "TEXT" ],
    "condition-ids" : [ "Integer" ],
    "current-value" : "String",
    "default-value" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "created-time" : "Date",
    "version" : "Integer",
    "last-modified-by-user-name" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "domain-id" : "Integer",
    "uri" : "String",
    "link" : "String"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<environment-variable>
  <name>String</name>
  <possible-values>String</possible-values>
  <description>String</description>
  <value-type>NUMBERS</value-type>
  <value-type>NUMBER_RANGE</value-type>
  <value-type>TEXT</value-type>
  <condition-ids>Integer</condition-ids>
  <current-value>String</current-value>
  <default-value>String</default-value>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-time>Date</last-modified-time>
  <created-time>Date</created-time>
  <version>Integer</version>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <domain-id>Integer</domain-id>
  <uri>String</uri>
  <link>String</link>
</environment-variable>
```


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CHAPTER 23

Extranet Device Management RESTful Web Services

The following opertions can be performed using Secuirty Director Extranet Device Management RESTful Web Services

Get Extranet Device by ID

This request is used to get an extranet device by its ID.

URI	/api/juniper/sd/vpn-management/extranet-devices/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.extranet-device+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.extranet-device+json;version=1;q=0.01
Access-Control	manageExtranetDeviceCap

Sample JSON Output:


```
{
  "extranet-device" : {
    "address-version" : [ "IPV4", "IPV6", "MIXED" ],
    "name" : "String",
    "last-modified-by-user-name" : "String",
    "created-by-user-name" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "edit-version" : "Integer",
    "host-name" : "String",
    "ip-address" : "String",
    "description" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "moid" : "String",
```


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```
    "domain-name" : "String",
    "uri" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<extranet-device>
  <address-version>IPV4</address-version>
  <address-version>IPV6</address-version>
  <address-version>MIXED</address-version>
  <name>String</name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-by-user-name>String</created-by-user-name>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <edit-version>Integer</edit-version>
  <host-name>String</host-name>
  <ip-address>String</ip-address>
  <description>String</description>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <moid>String</moid>
  <domain-name>String</domain-name>
  <uri>String</uri>
</extranet-device>
```

Delete Extranet Device

This request is used to delete an extranet device.

URI	/api/juniper/sd/vpn-management/extranet-devices/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteExtranetDeviceCap

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Create Extranet Device

This request is used to create an extranet device.

URI	/api/juniper/sd/vpn-management/extranet-devices
HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.extranet-device+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.vpn-management.extranet-device+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.vpn-management.extranet-device+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.extranet-device+json;version=1;q=0.01
Access-Control	createExtranetDeviceCap

Sample JSON Input

```
{
  "extranet-device" : {
    "address-version" : [ "IPV4", "IPV6", "MIXED" ],
    "name" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "edit-version" : "Integer",
    "host-name" : "String",
    "ip-address" : "String",
    "description" : "String",
    "id" : "Integer",
    "moid" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<extranet-device>
   <address-version>IPV4</address-version>
   <address-version>IPV6</address-version>
   <address-version>MIXED</address-version>
   <name>String</name>
   <definition-type>Hidden</definition-type>
   <definition-type>Predefined</definition-type>
   <definition-type>Custom</definition-type>
   <definition-type>All</definition-type>
   <edit-version>Integer</edit-version>
   <host-name>String</host-name>
   <ip-address>String</ip-address>
```


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```
  <description>String</description>
  <id>Integer</id>
  <moid>String</moid>
</extranet-device>
```

Sample JSON Output:

```
{
  "extranet-device" : {
    "address-version" : [ "IPV4", "IPV6", "MIXED" ],
    "name" : "String",
    "last-modified-by-user-name" : "String",
    "created-by-user-name" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "edit-version" : "Integer",
    "host-name" : "String",
    "ip-address" : "String",
    "description" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "moid" : "String",
    "domain-name" : "String",
    "uri" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<extranet-device>
  <address-version>IPV4</address-version>
  <address-version>IPV6</address-version>
  <address-version>MIXED</address-version>
  <name>String</name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-by-user-name>String</created-by-user-name>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <edit-version>Integer</edit-version>
  <host-name>String</host-name>
  <ip-address>String</ip-address>
  <description>String</description>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <moid>String</moid>
  <domain-name>String</domain-name>
  <uri>String</uri>
</extranet-device>
```

Modify Extranet Device

This request is used to modify an extranet device.

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URI	/api/juniper/sd/vpn-management/extranet-devices/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.vpn-management.extranet-device+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.vpn-management.extranet-device+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.vpn-management.extranet-device+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.extranet-device+json;version=1;q=0.01
Access-Control	modifyExtranetDeviceCap

Sample JSON Input

```
{
  "extranet-device" : {
    "address-version" : [ "IPV4", "IPV6", "MIXED" ],
    "name" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "edit-version" : "Integer",
    "host-name" : "String",
    "ip-address" : "String",
    "description" : "String",
    "id" : "Integer",
    "moid" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<extranet-device>
   <address-version>IPV4</address-version>
   <address-version>IPV6</address-version>
   <address-version>MIXED</address-version>
   <name>String</name>
   <definition-type>Hidden</definition-type>
   <definition-type>Predefined</definition-type>
   <definition-type>Custom</definition-type>
   <definition-type>All</definition-type>
   <edit-version>Integer</edit-version>
   <host-name>String</host-name>
   <ip-address>String</ip-address>
   <description>String</description>
   <id>Integer</id>
   <moid>String</moid>
</extranet-device>
```


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Sample JSON Output:


```
{
  "extranet-device" : {
    "address-version" : [ "IPV4", "IPV6", "MIXED" ],
    "name" : "String",
    "last-modified-by-user-name" : "String",
    "created-by-user-name" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "edit-version" : "Integer",
    "host-name" : "String",
    "ip-address" : "String",
    "description" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "moid" : "String",
    "domain-name" : "String",
    "uri" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<extranet-device>
    <address-version>IPV4</address-version>
    <address-version>IPV6</address-version>
    <address-version>MIXED</address-version>
    <name>String</name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-by-user-name>String</created-by-user-name>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <edit-version>Integer</edit-version>
    <host-name>String</host-name>
    <ip-address>String</ip-address>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <id>Integer</id>
    <moid>String</moid>
    <domain-name>String</domain-name>
    <uri>String</uri>
</extranet-device>
```


Get All Extranet Devices

This request is used to get all extranet devices. Get all extranet devices support paging, sorting by name, and global filtering.

URI	/api/juniper/sd/vpn-management/extranet-devices
HTTP method	GET

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Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.extranet-devices+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.extranet-devices+json;version=1;q=0.01
Access-Control	manageExtranetDeviceCap

Sample JSON Output:


```
{
  "extranet-devices" : {
    "extranet-device" : [ {
      "domain-id" : "Integer",
      "domain-name" : "String",
      "name" : "String",
      "description" : "String",
      "ip-address" : "String",
      "host-name" : "String",
      "global" : "String",
      "created-by-user-name" : "String",
      "edit-version" : "Integer",
      "id" : "Integer",
      "moid" : "String",
      "uri" : "String",
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<extranet-devices>
  <extranet-device>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <name>String</name>
    <description>String</description>
    <ip-address>String</ip-address>
    <host-name>String</host-name>
    <global>String</global>
    <created-by-user-name>String</created-by-user-name>
    <edit-version>Integer</edit-version>
    <id>Integer</id>
    <moid>String</moid>
    <uri>String</uri>
    <link>String</link>
  </extranet-device>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</extranet-devices>
```


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CHAPTER 24

Get IDP Policies

The following opertions can be performed using Secuirty Director Get IDP Policies

Get IDP Policies

URI	/api/juniper/sd/policy-management/ips/policies-idpdefault
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.policy-management.ips.policies+xml;version=2;q=0.02 application/vnd.juniper.sd.policy-management.ips.policies+json;version=2;q=0.02
Access-Control	viewIPSPolicy

Sample JSON Output:


```
{
  "policies" : {
    "policy" : [ {
      "last-successfully-deployed-time" : "Date",
      "dirty-rule-count" : "Integer",
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "version" : "Integer",
      "sequence-number" : "Integer",
      "locked-for-edit" : "Boolean",
      "requesterId" : "String",
      "policy-position" : [ "DEVICE", "PRE", "POST" ],
      "id" : "Integer",
      "rule-count" : "Integer",
```


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```
      "ips-policy-type" : [ "SIGNATURESET", "IPSBASIC", "IPSADVANCED", "NONE",
"NOT_CONFIGURED" ],
      "device-count" : "Integer",
      "device-list" : {
        "devices" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "description" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "edit-version" : "Integer",
      "created-time" : "Date",
      "policy-order" : "Double",
      "policy-state" : [ "DRAFT", "FINAL" ],
      "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
      "last-modified-by-user-name" : "String",
      "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
      "uri" : "String",
      "link" : "String",
      "has-OOB-changes" : "Boolean"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<policies>
  <policy>
    <last-successfully-deployed-time>Date</last-successfully-deployed-time>
    <dirty-rule-count>Integer</dirty-rule-count>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <version>Integer</version>
    <sequence-number>Integer</sequence-number>
    <locked-for-edit>Boolean</locked-for-edit>
    <requesterId>String</requesterId>
    <policy-position>DEVICE</policy-position>
    <policy-position>PRE</policy-position>
    <policy-position>POST</policy-position>
    <id>Integer</id>
    <rule-count>Integer</rule-count>
    <ips-policy-type>SIGNATURESET</ips-policy-type>
    <ips-policy-type>IPSBASIC</ips-policy-type>
    <ips-policy-type>IPSADVANCED</ips-policy-type>
    <ips-policy-type>NONE</ips-policy-type>
    <ips-policy-type>NOT_CONFIGURED</ips-policy-type>
    <device-count>Integer</device-count>
    <device-list>
      <devices>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <uri>String</uri>
      </devices>
      <uri>String</uri>
```


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```
    </device-list>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <edit-version>Integer</edit-version>
    <created-time>Date</created-time>
    <policy-order>Double</policy-order>
    <policy-state>DRAFT</policy-state>
    <policy-state>FINAL</policy-state>
    <policy-type>GLOBAL</policy-type>
    <policy-type>GROUP</policy-type>
    <policy-type>DEVICE</policy-type>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <publish-state>Not Published</publish-state>
    <publish-state>Partially Published</publish-state>
    <publish-state>Published</publish-state>
    <publish-state>Re-Publish Required</publish-state>
    <publish-state>Deleted</publish-state>
    <uri>String</uri>
    <link>String</link>
    <has-OOB-changes>Boolean</has-OOB-changes>
  </policy>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</policies>
```


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CHAPTER 25

IPS Signature Management RESTful Web Services

The following opertions can be performed using Secuirty Director IPS Signature Management RESTful Web Services

Get brief details of IPS signatures

This API returns very minimal details of each IPS signature which includes category, type, name, domain details. Also usefull when requird to fetch all signatures without pagination.

URI	/api/juniper/sd/ips-signature-management/ips-signatures-basic
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	manageIDPSig

Sample JSON Output:

```
{
  "ips-signatures-basic" : {
    "ips-signature" : [ {
      "id" : "Integer",
      "sig-type" : "String",
      "name" : "String",
      "domain-name" : "String",
      "severity" : "String",
      "category" : "String"
    } ],
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ips-signatures-basic>
  <ips-signature>
    <id>Integer</id>
    <sig-type>String</sig-type>
    <name>String</name>
    <domain-name>String</domain-name>
    <severity>String</severity>
    <category>String</category>
  </ips-signature>
  <totalSize>Integer</totalSize>
</ips-signatures-basic>
```

Modify IPS Signature

This request is used to modify an IPS signature.

URI	/api/juniper/sd/ips-signature-management/ips-signatures/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.ips-signature-management.ips-signature+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.ips-signature-management.ips-signature+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.ips-signature-management.ips-signature+xml;version=1;q=0.01 application/vnd.juniper.sd.ips-signature-management.ips-signature+json;version=1;q=0.01
Access-Control	modifyIDPSig

Sample JSON Input

```
{
  "ips-signature" : {
    "direction" : {
      "id" : "Integer",
      "values" : {
        "value" : [ "String" ],
        "totalSize" : "Integer"
      }
    },
    "recommended" : "Boolean",
    "activation-date" : "String",
    "version" : "Integer",
    "id" : "Integer",
```


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```
    "sig-type" : "String",
    "references" : {
      "id" : "Integer",
      "urls" : {
        "url" : [ "String" ],
        "totalSize" : "Integer"
      },
      "certs" : {
        "cert" : [ "String" ],
        "totalSize" : "Integer"
      },
      "bugs" : {
        "bug" : [ "String" ],
        "totalSize" : "Integer"
      },
      "cves" : {
        "cve" : [ "String" ],
        "totalSize" : "Integer"
      }
    },
    "is-group" : "Boolean",
    "predefined" : "Boolean",
    "direction-str" : "String",
    "certs" : "String",
    "url-count" : "Integer",
    "bugs" : "String",
    "image-name" : "String",
    "description" : "String",
    "column-model" : {
      "object-name" : "String",
      "object-type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
"UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT",
"DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP" ]
    },
    "name" : "String",
    "members" : {
      "ips-signature" : [ {
        "sig-type" : "String",
        "id" : "Integer",
        "name" : "String",
        "recommended" : "Boolean",
        "severity" : "String",
        "category" : "String",
        "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ]
      } ]
    },
    "record" : {
      "id" : "String",
      "column-data-name" : {
```


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```
    "totalSize" : "Integer"
  }
},
"cves" : "String",
"internal-id" : "String",
"edit-version" : "Integer",
"service" : "String",
"services" : {
  "id" : "Integer",
  "values" : {
    "value" : [ "String" ],
    "totalSize" : "Integer"
  }
},
"keywords" : "String",
"update-status" : "String",
"severity" : "String",
"modified" : "String",
"recommended-action" : "String",
"encrypted" : "Boolean",
"category" : "String",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"hash-key" : "String",
"import-id" : "Integer",
"display-name" : "String",
"vulnerability-id" : "Integer",
"attacks" : {
  "ips-sig-attack" : [ {
    "port" : "String",
    "time-binding-scope" : "String",
    "expression" : "String",
    "scope" : "String",
    "protocol-type" : "String",
    "sig-type" : "String",
    "test" : "String",
    "direction" : "String",
    "flow" : "String",
    "id" : "Integer",
    "order" : "String",
    "performance" : "Integer",
    "value" : "String",
    "reset" : "Boolean",
    "members" : {
      "ips-sig-attack-member" : [ {
        "anomaly-id" : "String",
        "sig-type" : "String",
        "shellcode" : "String",
        "test" : "String",
        "direction" : "String",
        "regex" : "String",
        "constraints" : {
          "ips-sig-pattern-constraint" : [ {
            "arg2" : "String",
            "arg1" : "String",
            "pattern" : "String",
            "constraint-type" : "String",
            "operator" : "String",
            "other-pattern" : "String",
            "anchor" : "String"
          } ],
          "totalSize" : "Integer"
        },
        "flow" : "String",
        "id" : "Integer",
```


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```
          "order" : "String",
          "pattern" : "String",
          "header-tests" : {
            "ips-sig-header-test" : [ {
              "testvalue" : "String",
              "protocol" : "String",
              "vartype" : "String",
              "name" : "String",
              "testmatch" : "String"
            } ],
            "totalSize" : "Integer"
          },
          "context" : "String",
          "service" : "String",
          "value" : "String",
          "negated" : "Boolean"
        } ],
        "totalSize" : "Integer"
      },
      "timebinding" : {
        "id" : "Integer",
        "scope" : "String",
        "count" : "Long"
      },
      "time-binding-count" : "Long",
      "shellcode" : "String",
      "regex" : "String",
      "detectors" : {
        "detector" : [ "String" ],
        "totalSize" : "Integer"
      },
      "protocol-details" : "String",
      "modified" : "String",
      "encrypted" : "Boolean",
      "pattern" : "String",
      "ordered" : "Boolean",
      "context" : "String",
      "service" : "String",
      "import-id" : "Integer",
      "false-positives" : "String",
      "negated" : "Boolean"
    } ]
  },
  "filters" : {
    "ips-sig-filter" : [ {
      "expression" : "String",
      "field" : "String",
      "id" : "Integer",
      "display-value" : "String",
      "display-field" : "String",
      "filter-value" : "String"
    } ]
  },
  "fileType" : "String",
  "vulType" : "String",
  "cvssScore" : "String",
  "vendor" : "String"
 }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<ips-signature>
  <direction>
    <id>Integer</id>
    <values>
      <value>String</value>
      <totalSize>Integer</totalSize>
    </values>
  </direction>
  <recommended>Boolean</recommended>
  <activation-date>String</activation-date>
  <version>Integer</version>
  <id>Integer</id>
  <sig-type>String</sig-type>
  <references>
    <id>Integer</id>
    <urls>
      <url>String</url>
      <totalSize>Integer</totalSize>
    </urls>
    <certs>
      <cert>String</cert>
      <totalSize>Integer</totalSize>
    </certs>
    <bugs>
      <bug>String</bug>
      <totalSize>Integer</totalSize>
    </bugs>
    <cves>
      <cve>String</cve>
      <totalSize>Integer</totalSize>
    </cves>
  </references>
  <is-group>Boolean</is-group>
  <predefined>Boolean</predefined>
  <direction-str>String</direction-str>
  <certs>String</certs>
  <url-count>Integer</url-count>
  <bugs>String</bugs>
  <image-name>String</image-name>
  <description>String</description>
  <column-model>
    <object-name>String</object-name>
    <object-type>VPN</object-type>
    <object-type>NAT_POLICY</object-type>
    <object-type>APBR_POLICY</object-type>
    <object-type>ADDRESS</object-type>
    <object-type>SSL_PROXY_PROFILE</object-type>
    <object-type>ACCESSPROFILE</object-type>
    <object-type>REDIRECT_APPLICATION_PROFILE</object-type>
    <object-type>SERVICE</object-type>
    <object-type>PORTSET</object-type>
    <object-type>APPLICATION_SIGNATURE</object-type>
    <object-type>IPS_SIGNATURE</object-type>
    <object-type>IPS_SIGNATURE_SET</object-type>
    <object-type>IPS_POLICY</object-type>
    <object-type>IPSRULE_TYPE</object-type>
    <object-type>POLICY</object-type>
    <object-type>DCRULE_TYPE</object-type>
    <object-type>NATRULE_TYPE</object-type>
    <object-type>APBR_RULE_TYPE</object-type>
    <object-type>APP_FW_RULE_TYPE</object-type>
```


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```
    <object-type>NAT_RULE_SET</object-type>
    <object-type>NAT_POOL</object-type>
    <object-type>VPNDEVICE_TYPE</object-type>
    <object-type>VPNENDPOINT_TYPE</object-type>
    <object-type>VARIABLE_DEFINITION</object-type>
    <object-type>POLYZONEDEF_TYPE</object-type>
    <object-type>SOURCEIDENTITY_TYPE</object-type>
    <object-type>SECURITY_DEVICE</object-type>
    <object-type>EXTRANET_DEVICE</object-type>
    <object-type>IPSSIGSET_TYPE</object-type>
    <object-type>SCHEDULER</object-type>
    <object-type>ZONESET</object-type>
    <object-type>ANTI_SPAM_PROFILE</object-type>
    <object-type>ANTI_VIRUS_PROFILE</object-type>
    <object-type>CONTENT_FILTERING_PROFILE</object-type>
    <object-type>WEB_FILTERING_PROFILE</object-type>
    <object-type>URL_CATEGORY_LIST</object-type>
    <object-type>EMAIL_ADDRESS_PATTERN</object-type>
    <object-type>URL_CATEGORIZATION_LIST</object-type>
    <object-type>UTM_DEVICE_PROFILE</object-type>
    <object-type>UTM_POLICY</object-type>
    <object-type>POLICY_PROFILE</object-type>
    <object-type>VPNPROFILE_TYPE</object-type>
    <object-type>SD_PROVISIONING_RESULT</object-type>
    <object-type>DYNAMIC_ADDRESS</object-type>
    <object-type>CHANGE_REQUEST</object-type>
    <object-type>APP_FW_POLICY</object-type>
    <object-type>CHANGE_REQUEST_DEPLOYED</object-type>
    <object-type>THREAT_POLICY</object-type>
    <object-type>BASE_FILTER</object-type>
    <object-type>ACTIVE_DIRECTORY</object-type>
    <object-type>IDENTITY_MANAGEMENT</object-type>
    <object-type>MACHINE_IDENTITY</object-type>
    <object-type>CONDITION</object-type>
    <object-type>ENVIRONMENT_VARIABLE</object-type>
    <object-type>METADATA</object-type>
    <object-type>METADATAEXPRESSION</object-type>
    <object-type>METADATA_PROVIDER</object-type>
    <object-type>GLOBAL</object-type>
    <object-type>UTM_DEFAULT_CONFIGURATION</object-type>
    <object-type>GLOBALIDP</object-type>
    <object-type>ADDRESSPOOL</object-type>
    <object-type>SSLVPNPROFILE</object-type>
    <object-type>SECURE_WEB_PROXY_PROFILE</object-type>
    <object-type>DNS_SECURITY_PROFILE</object-type>
    <object-type>DNS_SECURITY_POLICY</object-type>
    <object-type>DNS_SINKHOLE</object-type>
    <object-type>DNS_FILTER</object-type>
    <object-type>DATA_PLANE_PCAP</object-type>
  </column-model>
  <name>String</name>
  <members>
    <ips-signature>
      <sig-type>String</sig-type>
      <id>Integer</id>
      <name>String</name>
      <recommended>Boolean</recommended>
      <severity>String</severity>
      <category>String</category>
      <definition-type>Hidden</definition-type>
      <definition-type>Predefined</definition-type>
      <definition-type>Custom</definition-type>
      <definition-type>All</definition-type>
    </ips-signature>
```


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```
</members>
<record>
  <id>String</id>
  <column-data-name>
    <column-data-name>String</column-data-name>
    <totalSize>Integer</totalSize>
  </column-data-name>
</record>
<cves>String</cves>
<internal-id>String</internal-id>
<edit-version>Integer</edit-version>
<service>String</service>
<services>
  <id>Integer</id>
  <values>
    <value>String</value>
    <totalSize>Integer</totalSize>
  </values>
</services>
<keywords>String</keywords>
<update-status>String</update-status>
<severity>String</severity>
<modified>String</modified>
<recommended-action>String</recommended-action>
<encrypted>Boolean</encrypted>
<category>String</category>
<definition-type>Hidden</definition-type>
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
<definition-type>All</definition-type>
<hash-key>String</hash-key>
<import-id>Integer</import-id>
<display-name>String</display-name>
<vulnerability-id>Integer</vulnerability-id>
<attacks>
  <ips-sig-attack>
    <port>String</port>
    <time-binding-scope>String</time-binding-scope>
    <expression>String</expression>
    <scope>String</scope>
    <protocol-type>String</protocol-type>
    <sig-type>String</sig-type>
    <test>String</test>
    <direction>String</direction>
    <flow>String</flow>
    <id>Integer</id>
    <order>String</order>
    <performance>Integer</performance>
    <value>String</value>
    <reset>Boolean</reset>
    <members>
      <ips-sig-attack-member>
        <anomaly-id>String</anomaly-id>
        <sig-type>String</sig-type>
        <shellcode>String</shellcode>
        <test>String</test>
        <direction>String</direction>
        <regex>String</regex>
        <constraints>
          <ips-sig-pattern-constraint>
            <arg2>String</arg2>
            <arg1>String</arg1>
            <pattern>String</pattern>
            <constraint-type>String</constraint-type>
```


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```
            <operator>String</operator>
            <other-pattern>String</other-pattern>
            <anchor>String</anchor>
          </ips-sig-pattern-constraint>
          <totalSize>Integer</totalSize>
        </constraints>
        <flow>String</flow>
        <id>Integer</id>
        <order>String</order>
        <pattern>String</pattern>
        <header-tests>
          <ips-sig-header-test>
            <testvalue>String</testvalue>
            <protocol>String</protocol>
            <vartype>String</vartype>
            <name>String</name>
            <testmatch>String</testmatch>
          </ips-sig-header-test>
          <totalSize>Integer</totalSize>
        </header-tests>
        <context>String</context>
        <service>String</service>
        <value>String</value>
        <negated>Boolean</negated>
      </ips-sig-attack-member>
      <totalSize>Integer</totalSize>
    </members>
    <timebinding>
      <id>Integer</id>
      <scope>String</scope>
      <count>Long</count>
    </timebinding>
    <time-binding-count>Long</time-binding-count>
    <shellcode>String</shellcode>
    <regex>String</regex>
    <detectors>
      <detector>String</detector>
      <totalSize>Integer</totalSize>
    </detectors>
    <protocol-details>String</protocol-details>
    <modified>String</modified>
    <encrypted>Boolean</encrypted>
    <pattern>String</pattern>
    <ordered>Boolean</ordered>
    <context>String</context>
    <service>String</service>
    <import-id>Integer</import-id>
    <false-positives>String</false-positives>
    <negated>Boolean</negated>
  </ips-sig-attack>
</attacks>
<filters>
  <ips-sig-filter>
    <expression>String</expression>
    <field>String</field>
    <id>Integer</id>
    <display-value>String</display-value>
    <display-field>String</display-field>
    <filter-value>String</filter-value>
  </ips-sig-filter>
</filters>
<fileType>String</fileType>
<vulType>String</vulType>
<cvssScore>String</cvssScore>
```


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```
  <vendor>String</vendor>
</ips-signature>
```

Sample JSON Output:


```
{
  "ips-signature" : {
    "created-by-user-name" : "String",
    "direction" : {
      "id" : "Integer",
      "values" : {
        "value" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "recommended" : "Boolean",
    "activation-date" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "sig-type" : "String",
    "references" : {
      "id" : "Integer",
      "urls" : {
        "url" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "certs" : {
        "cert" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "bugs" : {
        "bug" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "cves" : {
        "cve" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "is-group" : "Boolean",
    "predefined" : "Boolean",
    "direction-str" : "String",
    "certs" : "String",
    "url-count" : "Integer",
    "bugs" : "String",
    "image-name" : "String",
    "description" : "String",
```


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```
    "domain-id" : "Integer",
    "column-model" : {
      "object-name" : "String",
      "object-type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
"UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT",
"DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP" ],
      "uri" : "String"
    },
    "name" : "String",
    "members" : {
      "ips-signature" : [ {
        "domain-name" : "String",
        "domain-id" : "Integer",
        "sig-type" : "String",
        "id" : "Integer",
        "name" : "String",
        "uri" : "String",
        "link" : "String",
        "recommended" : "Boolean",
        "severity" : "String",
        "category" : "String",
        "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ]
      } ],
      "uri" : "String"
    },
    "record" : {
      "id" : "String",
      "uri" : "String",
      "column-data-name" : {
        "column-data-name" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      }
    },
    "cves" : "String",
    "internal-id" : "String",
    "edit-version" : "Integer",
    "service" : "String",
    "services" : {
      "id" : "Integer",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String",
      "values" : {
        "value" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      }
    },
```


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```
"global" : "String",
"update-status" : "String",
"domain-name" : "String",
"severity" : "String",
"modified" : "String",
"recommended-action" : "String",
"last-modified-by-user-name" : "String",
"encrypted" : "Boolean",
"category" : "String",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"hash-key" : "String",
"import-id" : "Integer",
"display-name" : "String",
"vulnerability-id" : "Integer",
"attacks" : {
  "ips-sig-attack" : [ {
    "port" : "String",
    "time-binding-scope" : "String",
    "expression" : "String",
    "scope" : "String",
    "protocol-type" : "String",
    "sig-type" : "String",
    "test" : "String",
    "direction" : "String",
    "flow" : "String",
    "id" : "Integer",
    "order" : "String",
    "performance" : "Integer",
    "domain-id" : "Integer",
    "value" : "String",
    "reset" : "Boolean",
    "members" : {
      "ips-sig-attack-member" : [ {
        "anomaly-id" : "String",
        "sig-type" : "String",
        "shellcode" : "String",
        "test" : "String",
        "direction" : "String",
        "regex" : "String",
        "domain-name" : "String",
        "constraints" : {
          "ips-sig-pattern-constraint" : [ {
            "arg2" : "String",
            "arg1" : "String",
            "pattern" : "String",
            "constraint-type" : "String",
            "operator" : "String",
            "other-pattern" : "String",
            "anchor" : "String",
            "uri" : "String"
          } ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "flow" : "String",
        "id" : "Integer",
        "order" : "String",
        "pattern" : "String",
        "domain-id" : "Integer",
        "header-tests" : {
          "ips-sig-header-test" : [ {
            "testvalue" : "String",
            "protocol" : "String",
            "vartype" : "String",
```


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```
            "name" : "String",
            "testmatch" : "String",
            "uri" : "String"
          } ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "context" : "String",
        "service" : "String",
        "value" : "String",
        "negated" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "timebinding" : {
      "id" : "Integer",
      "scope" : "String",
      "count" : "Long",
      "uri" : "String"
    },
    "time-binding-count" : "Long",
    "shellcode" : "String",
    "regex" : "String",
    "detectors" : {
      "detector" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "protocol-details" : "String",
    "domain-name" : "String",
    "modified" : "String",
    "encrypted" : "Boolean",
    "pattern" : "String",
    "ordered" : "Boolean",
    "context" : "String",
    "service" : "String",
    "import-id" : "Integer",
    "false-positives" : "String",
    "negated" : "Boolean",
    "uri" : "String"
  } ],
  "uri" : "String"
},
"filters" : {
  "ips-sig-filter" : [ {
    "expression" : "String",
    "field" : "String",
    "id" : "Integer",
    "uri" : "String",
    "display-value" : "String",
    "display-field" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "filter-value" : "String"
  } ],
  "uri" : "String"
},
"uri" : "String",
"fileType" : "String",
"vulType" : "String",
"cvssScore" : "String",
"vendor" : "String"
```


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```
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ips-signature>
  <created-by-user-name>String</created-by-user-name>
  <direction>
    <id>Integer</id>
    <values>
      <value>String</value>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </values>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
  </direction>
  <recommended>Boolean</recommended>
  <activation-date>String</activation-date>
  <version>Integer</version>
  <id>Integer</id>
  <sig-type>String</sig-type>
  <references>
    <id>Integer</id>
    <urls>
      <url>String</url>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </urls>
    <certs>
      <cert>String</cert>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </certs>
    <bugs>
      <bug>String</bug>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </bugs>
    <cves>
      <cve>String</cve>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </cves>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
  </references>
  <is-group>Boolean</is-group>
  <predefined>Boolean</predefined>
  <direction-str>String</direction-str>
  <certs>String</certs>
  <url-count>Integer</url-count>
  <bugs>String</bugs>
  <image-name>String</image-name>
  <description>String</description>
```


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```
<domain-id>Integer</domain-id>
<column-model>
  <object-name>String</object-name>
  <object-type>VPN</object-type>
  <object-type>NAT_POLICY</object-type>
  <object-type>APBR_POLICY</object-type>
  <object-type>ADDRESS</object-type>
  <object-type>SSL_PROXY_PROFILE</object-type>
  <object-type>ACCESSPROFILE</object-type>
  <object-type>REDIRECT_APPLICATION_PROFILE</object-type>
  <object-type>SERVICE</object-type>
  <object-type>PORTSET</object-type>
  <object-type>APPLICATION_SIGNATURE</object-type>
  <object-type>IPS_SIGNATURE</object-type>
  <object-type>IPS_SIGNATURE_SET</object-type>
  <object-type>IPS_POLICY</object-type>
  <object-type>IPSRULE_TYPE</object-type>
  <object-type>POLICY</object-type>
  <object-type>DCRULE_TYPE</object-type>
  <object-type>NATRULE_TYPE</object-type>
  <object-type>APBR_RULE_TYPE</object-type>
  <object-type>APP_FW_RULE_TYPE</object-type>
  <object-type>NAT_RULE_SET</object-type>
  <object-type>NAT_POOL</object-type>
  <object-type>VPNDEVICE_TYPE</object-type>
  <object-type>VPNENDPOINT_TYPE</object-type>
  <object-type>VARIABLE_DEFINITION</object-type>
  <object-type>POLYZONEDEF_TYPE</object-type>
  <object-type>SOURCEIDENTITY_TYPE</object-type>
  <object-type>SECURITY_DEVICE</object-type>
  <object-type>EXTRANET_DEVICE</object-type>
  <object-type>IPSSIGSET_TYPE</object-type>
  <object-type>SCHEDULER</object-type>
  <object-type>ZONESET</object-type>
  <object-type>ANTI_SPAM_PROFILE</object-type>
  <object-type>ANTI_VIRUS_PROFILE</object-type>
  <object-type>CONTENT_FILTERING_PROFILE</object-type>
  <object-type>WEB_FILTERING_PROFILE</object-type>
  <object-type>URL_CATEGORY_LIST</object-type>
  <object-type>EMAIL_ADDRESS_PATTERN</object-type>
  <object-type>URL_CATEGORIZATION_LIST</object-type>
  <object-type>UTM_DEVICE_PROFILE</object-type>
  <object-type>UTM_POLICY</object-type>
  <object-type>POLICY_PROFILE</object-type>
  <object-type>VPNPROFILE_TYPE</object-type>
  <object-type>SD_PROVISIONING_RESULT</object-type>
  <object-type>DYNAMIC_ADDRESS</object-type>
  <object-type>CHANGE_REQUEST</object-type>
  <object-type>APP_FW_POLICY</object-type>
  <object-type>CHANGE_REQUEST_DEPLOYED</object-type>
  <object-type>THREAT_POLICY</object-type>
  <object-type>BASE_FILTER</object-type>
  <object-type>ACTIVE_DIRECTORY</object-type>
  <object-type>IDENTITY_MANAGEMENT</object-type>
  <object-type>MACHINE_IDENTITY</object-type>
  <object-type>CONDITION</object-type>
  <object-type>ENVIRONMENT_VARIABLE</object-type>
  <object-type>METADATA</object-type>
  <object-type>METADATAEXPRESSION</object-type>
  <object-type>METADATA_PROVIDER</object-type>
  <object-type>GLOBAL</object-type>
  <object-type>UTM_DEFAULT_CONFIGURATION</object-type>
  <object-type>GLOBALIDP</object-type>
  <object-type>ADDRESSPOOL</object-type>
```


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```
    <object-type>SSLVPNPROFILE</object-type>
    <object-type>SECURE_WEB_PROXY_PROFILE</object-type>
    <object-type>DNS_SECURITY_PROFILE</object-type>
    <object-type>DNS_SECURITY_POLICY</object-type>
    <object-type>DNS_SINKHOLE</object-type>
    <object-type>DNS_FILTER</object-type>
    <object-type>DATA_PLANE_PCAP</object-type>
    <uri>String</uri>
  </column-model>
  <name>String</name>
  <members>
    <ips-signature>
      <domain-name>String</domain-name>
      <domain-id>Integer</domain-id>
      <sig-type>String</sig-type>
      <id>Integer</id>
      <name>String</name>
      <uri>String</uri>
      <link>String</link>
      <recommended>Boolean</recommended>
      <severity>String</severity>
      <category>String</category>
      <definition-type>Hidden</definition-type>
      <definition-type>Predefined</definition-type>
      <definition-type>Custom</definition-type>
      <definition-type>All</definition-type>
    </ips-signature>
    <uri>String</uri>
  </members>
  <record>
    <id>String</id>
    <uri>String</uri>
    <column-data-name>
      <column-data-name>String</column-data-name>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </column-data-name>
  </record>
  <cves>String</cves>
  <internal-id>String</internal-id>
  <edit-version>Integer</edit-version>
  <service>String</service>
  <services>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
    <values>
      <value>String</value>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </values>
  </services>
  <keywords>String</keywords>
  <global>String</global>
  <update-status>String</update-status>
  <domain-name>String</domain-name>
  <severity>String</severity>
  <modified>String</modified>
  <recommended-action>String</recommended-action>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <encrypted>Boolean</encrypted>
  <category>String</category>
  <definition-type>Hidden</definition-type>
```


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```
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
<definition-type>All</definition-type>
<hash-key>String</hash-key>
<import-id>Integer</import-id>
<display-name>String</display-name>
<vulnerability-id>Integer</vulnerability-id>
<attacks>
  <ips-sig-attack>
    <port>String</port>
    <time-binding-scope>String</time-binding-scope>
    <expression>String</expression>
    <scope>String</scope>
    <protocol-type>String</protocol-type>
    <sig-type>String</sig-type>
    <test>String</test>
    <direction>String</direction>
    <flow>String</flow>
    <id>Integer</id>
    <order>String</order>
    <performance>Integer</performance>
    <domain-id>Integer</domain-id>
    <value>String</value>
    <reset>Boolean</reset>
    <members>
      <ips-sig-attack-member>
        <anomaly-id>String</anomaly-id>
        <sig-type>String</sig-type>
        <shellcode>String</shellcode>
        <test>String</test>
        <direction>String</direction>
        <regex>String</regex>
        <domain-name>String</domain-name>
        <constraints>
          <ips-sig-pattern-constraint>
            <arg2>String</arg2>
            <arg1>String</arg1>
            <pattern>String</pattern>
            <constraint-type>String</constraint-type>
            <operator>String</operator>
            <other-pattern>String</other-pattern>
            <anchor>String</anchor>
            <uri>String</uri>
          </ips-sig-pattern-constraint>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </constraints>
        <flow>String</flow>
        <id>Integer</id>
        <order>String</order>
        <pattern>String</pattern>
        <domain-id>Integer</domain-id>
        <header-tests>
          <ips-sig-header-test>
            <testvalue>String</testvalue>
            <protocol>String</protocol>
            <vartype>String</vartype>
            <name>String</name>
            <testmatch>String</testmatch>
            <uri>String</uri>
          </ips-sig-header-test>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </header-tests>
```


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```
            <context>String</context>
            <service>String</service>
            <value>String</value>
            <negated>Boolean</negated>
            <uri>String</uri>
          </ips-sig-attack-member>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </members>
        <timebinding>
          <id>Integer</id>
          <scope>String</scope>
          <count>Long</count>
          <uri>String</uri>
        </timebinding>
        <time-binding-count>Long</time-binding-count>
        <shellcode>String</shellcode>
        <regex>String</regex>
        <detectors>
          <detector>String</detector>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </detectors>
        <protocol-details>String</protocol-details>
        <domain-name>String</domain-name>
        <modified>String</modified>
        <encrypted>Boolean</encrypted>
        <pattern>String</pattern>
        <ordered>Boolean</ordered>
        <context>String</context>
        <service>String</service>
        <import-id>Integer</import-id>
        <false-positives>String</false-positives>
        <negated>Boolean</negated>
        <uri>String</uri>
      </ips-sig-attack>
      <uri>String</uri>
    </attacks>
    <filters>
      <ips-sig-filter>
        <expression>String</expression>
        <field>String</field>
        <id>Integer</id>
        <uri>String</uri>
        <display-value>String</display-value>
        <display-field>String</display-field>
        <domain-name>String</domain-name>
        <domain-id>Integer</domain-id>
        <filter-value>String</filter-value>
      </ips-sig-filter>
      <uri>String</uri>
    </filters>
    <uri>String</uri>
    <fileType>String</fileType>
    <vulType>String</vulType>
    <cvssScore>String</cvssScore>
    <vendor>String</vendor>
</ips-signature>
```

Get IPS Signature By ID

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This request is used to get the IPS signature information by ID.

URI	/api/juniper/sd/ips-signature-management/ips-signatures/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.ips-signature-management.ips-signature+xml;version=1;q=0.01 application/vnd.juniper.sd.ips-signature-management.ips-signature+json;version=1;q=0.01
Access-Control	manageIDPSig

Sample JSON Output:


```
{
  "ips-signature" : {
    "created-by-user-name" : "String",
    "direction" : {
      "id" : "Integer",
      "values" : {
        "value" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "recommended" : "Boolean",
    "activation-date" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "sig-type" : "String",
    "references" : {
      "id" : "Integer",
      "urls" : {
        "url" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "certs" : {
        "cert" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "bugs" : {
        "bug" : [ "String" ],
        "uri" : "String",
```


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```
        "totalSize" : "Integer"
      },
      "cves" : {
        "cve" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "is-group" : "Boolean",
    "predefined" : "Boolean",
    "direction-str" : "String",
    "certs" : "String",
    "url-count" : "Integer",
    "bugs" : "String",
    "image-name" : "String",
    "description" : "String",
    "domain-id" : "Integer",
    "column-model" : {
      "object-name" : "String",
      "object-type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
"UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT",
"DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP" ],
      "uri" : "String"
    },
    "name" : "String",
    "members" : {
      "ips-signature" : [ {
        "domain-name" : "String",
        "domain-id" : "Integer",
        "sig-type" : "String",
        "id" : "Integer",
        "name" : "String",
        "uri" : "String",
        "link" : "String",
        "recommended" : "Boolean",
        "severity" : "String",
        "category" : "String",
        "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ]
      } ],
      "uri" : "String"
    },
    "record" : {
      "id" : "String",
      "uri" : "String",
      "column-data-name" : {
        "column-data-name" : [ "String" ],
```


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```
    "totalSize" : "Integer"
  }
},
"cves" : "String",
"internal-id" : "String",
"edit-version" : "Integer",
"service" : "String",
"services" : {
  "id" : "Integer",
  "domain-id" : "Integer",
  "domain-name" : "String",
  "uri" : "String",
  "values" : {
    "value" : [ "String" ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
},
"keywords" : "String",
"global" : "String",
"update-status" : "String",
"domain-name" : "String",
"severity" : "String",
"modified" : "String",
"recommended-action" : "String",
"last-modified-by-user-name" : "String",
"encrypted" : "Boolean",
"category" : "String",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"hash-key" : "String",
"import-id" : "Integer",
"display-name" : "String",
"vulnerability-id" : "Integer",
"attacks" : {
  "ips-sig-attack" : [ {
    "port" : "String",
    "time-binding-scope" : "String",
    "expression" : "String",
    "scope" : "String",
    "protocol-type" : "String",
    "sig-type" : "String",
    "test" : "String",
    "direction" : "String",
    "flow" : "String",
    "id" : "Integer",
    "order" : "String",
    "performance" : "Integer",
    "domain-id" : "Integer",
    "value" : "String",
    "reset" : "Boolean",
    "members" : {
      "ips-sig-attack-member" : [ {
        "anomaly-id" : "String",
        "sig-type" : "String",
        "shellcode" : "String",
        "test" : "String",
        "direction" : "String",
        "regex" : "String",
        "domain-name" : "String",
        "constraints" : {
          "ips-sig-pattern-constraint" : [ {
            "arg2" : "String",
            "arg1" : "String",
            "pattern" : "String",
```


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```
          "constraint-type" : "String",
          "operator" : "String",
          "other-pattern" : "String",
          "anchor" : "String",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "flow" : "String",
      "id" : "Integer",
      "order" : "String",
      "pattern" : "String",
      "domain-id" : "Integer",
      "header-tests" : {
        "ips-sig-header-test" : [ {
          "testvalue" : "String",
          "protocol" : "String",
          "vartype" : "String",
          "name" : "String",
          "testmatch" : "String",
          "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "context" : "String",
      "service" : "String",
      "value" : "String",
      "negated" : "Boolean",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  },
  "timebinding" : {
    "id" : "Integer",
    "scope" : "String",
    "count" : "Long",
    "uri" : "String"
  },
  "time-binding-count" : "Long",
  "shellcode" : "String",
  "regex" : "String",
  "detectors" : {
    "detector" : [ "String" ],
    "uri" : "String",
    "totalSize" : "Integer"
  },
  "protocol-details" : "String",
  "domain-name" : "String",
  "modified" : "String",
  "encrypted" : "Boolean",
  "pattern" : "String",
  "ordered" : "Boolean",
  "context" : "String",
  "service" : "String",
  "import-id" : "Integer",
  "false-positives" : "String",
  "negated" : "Boolean",
  "uri" : "String"
} ],
"uri" : "String"
},
```


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```
    "filters" : {
      "ips-sig-filter" : [ {
        "expression" : "String",
        "field" : "String",
        "id" : "Integer",
        "uri" : "String",
        "display-value" : "String",
        "display-field" : "String",
        "domain-name" : "String",
        "domain-id" : "Integer",
        "filter-value" : "String"
      } ],
      "uri" : "String"
    },
    "uri" : "String",
    "fileType" : "String",
    "vulType" : "String",
    "cvssScore" : "String",
    "vendor" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ips-signature>
  <created-by-user-name>String</created-by-user-name>
  <direction>
    <id>Integer</id>
    <values>
      <value>String</value>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </values>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
  </direction>
  <recommended>Boolean</recommended>
  <activation-date>String</activation-date>
  <version>Integer</version>
  <id>Integer</id>
  <sig-type>String</sig-type>
  <references>
    <id>Integer</id>
    <urls>
      <url>String</url>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </urls>
    <certs>
      <cert>String</cert>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </certs>
    <bugs>
      <bug>String</bug>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </bugs>
    <cves>
      <cve>String</cve>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
```


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```
    </cves>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
</references>
<is-group>Boolean</is-group>
<predefined>Boolean</predefined>
<direction-str>String</direction-str>
<certs>String</certs>
<url-count>Integer</url-count>
<bugs>String</bugs>
<image-name>String</image-name>
<description>String</description>
<domain-id>Integer</domain-id>
<column-model>
    <object-name>String</object-name>
    <object-type>VPN</object-type>
    <object-type>NAT_POLICY</object-type>
    <object-type>APBR_POLICY</object-type>
    <object-type>ADDRESS</object-type>
    <object-type>SSL_PROXY_PROFILE</object-type>
    <object-type>ACCESSPROFILE</object-type>
    <object-type>REDIRECT_APPLICATION_PROFILE</object-type>
    <object-type>SERVICE</object-type>
    <object-type>PORTSET</object-type>
    <object-type>APPLICATION_SIGNATURE</object-type>
    <object-type>IPS_SIGNATURE</object-type>
    <object-type>IPS_SIGNATURE_SET</object-type>
    <object-type>IPS_POLICY</object-type>
    <object-type>IPSRULE_TYPE</object-type>
    <object-type>POLICY</object-type>
    <object-type>DCRULE_TYPE</object-type>
    <object-type>NATRULE_TYPE</object-type>
    <object-type>APBR_RULE_TYPE</object-type>
    <object-type>APP_FW_RULE_TYPE</object-type>
    <object-type>NAT_RULE_SET</object-type>
    <object-type>NAT_POOL</object-type>
    <object-type>VPNDEVICE_TYPE</object-type>
    <object-type>VPNENDPOINT_TYPE</object-type>
    <object-type>VARIABLE_DEFINITION</object-type>
    <object-type>POLYZONEDEF_TYPE</object-type>
    <object-type>SOURCEIDENTITY_TYPE</object-type>
    <object-type>SECURITY_DEVICE</object-type>
    <object-type>EXTRANET_DEVICE</object-type>
    <object-type>IPSSIGSET_TYPE</object-type>
    <object-type>SCHEDULER</object-type>
    <object-type>ZONESET</object-type>
    <object-type>ANTI_SPAM_PROFILE</object-type>
    <object-type>ANTI_VIRUS_PROFILE</object-type>
    <object-type>CONTENT_FILTERING_PROFILE</object-type>
    <object-type>WEB_FILTERING_PROFILE</object-type>
    <object-type>URL_CATEGORY_LIST</object-type>
    <object-type>EMAIL_ADDRESS_PATTERN</object-type>
    <object-type>URL_CATEGORIZATION_LIST</object-type>
    <object-type>UTM_DEVICE_PROFILE</object-type>
    <object-type>UTM_POLICY</object-type>
    <object-type>POLICY_PROFILE</object-type>
    <object-type>VPNPROFILE_TYPE</object-type>
    <object-type>SD_PROVISIONING_RESULT</object-type>
    <object-type>DYNAMIC_ADDRESS</object-type>
    <object-type>CHANGE_REQUEST</object-type>
    <object-type>APP_FW_POLICY</object-type>
    <object-type>CHANGE_REQUEST_DEPLOYED</object-type>
    <object-type>THREAT_POLICY</object-type>
```


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```
    <object-type>BASE_FILTER</object-type>
    <object-type>ACTIVE_DIRECTORY</object-type>
    <object-type>IDENTITY_MANAGEMENT</object-type>
    <object-type>MACHINE_IDENTITY</object-type>
    <object-type>CONDITION</object-type>
    <object-type>ENVIRONMENT_VARIABLE</object-type>
    <object-type>METADATA</object-type>
    <object-type>METADATAEXPRESSION</object-type>
    <object-type>METADATA_PROVIDER</object-type>
    <object-type>GLOBAL</object-type>
    <object-type>UTM_DEFAULT_CONFIGURATION</object-type>
    <object-type>GLOBALIDP</object-type>
    <object-type>ADDRESSPOOL</object-type>
    <object-type>SSLVPNPROFILE</object-type>
    <object-type>SECURE_WEB_PROXY_PROFILE</object-type>
    <object-type>DNS_SECURITY_PROFILE</object-type>
    <object-type>DNS_SECURITY_POLICY</object-type>
    <object-type>DNS_SINKHOLE</object-type>
    <object-type>DNS_FILTER</object-type>
    <object-type>DATA_PLANE_PCAP</object-type>
    <uri>String</uri>
  </column-model>
  <name>String</name>
  <members>
    <ips-signature>
      <domain-name>String</domain-name>
      <domain-id>Integer</domain-id>
      <sig-type>String</sig-type>
      <id>Integer</id>
      <name>String</name>
      <uri>String</uri>
      <link>String</link>
      <recommended>Boolean</recommended>
      <severity>String</severity>
      <category>String</category>
      <definition-type>Hidden</definition-type>
      <definition-type>Predefined</definition-type>
      <definition-type>Custom</definition-type>
      <definition-type>All</definition-type>
    </ips-signature>
    <uri>String</uri>
  </members>
  <record>
    <id>String</id>
    <uri>String</uri>
    <column-data-name>
      <column-data-name>String</column-data-name>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </column-data-name>
  </record>
  <cves>String</cves>
  <internal-id>String</internal-id>
  <edit-version>Integer</edit-version>
  <service>String</service>
  <services>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
    <values>
      <value>String</value>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
```


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```
  </values>
</services>
<keywords>String</keywords>
<global>String</global>
<update-status>String</update-status>
<domain-name>String</domain-name>
<severity>String</severity>
<modified>String</modified>
<recommended-action>String</recommended-action>
<last-modified-by-user-name>String</last-modified-by-user-name>
<encrypted>Boolean</encrypted>
<category>String</category>
<definition-type>Hidden</definition-type>
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
<definition-type>All</definition-type>
<hash-key>String</hash-key>
<import-id>Integer</import-id>
<display-name>String</display-name>
<vulnerability-id>Integer</vulnerability-id>
<attacks>
  <ips-sig-attack>
    <port>String</port>
    <time-binding-scope>String</time-binding-scope>
    <expression>String</expression>
    <scope>String</scope>
    <protocol-type>String</protocol-type>
    <sig-type>String</sig-type>
    <test>String</test>
    <direction>String</direction>
    <flow>String</flow>
    <id>Integer</id>
    <order>String</order>
    <performance>Integer</performance>
    <domain-id>Integer</domain-id>
    <value>String</value>
    <reset>Boolean</reset>
    <members>
      <ips-sig-attack-member>
        <anomaly-id>String</anomaly-id>
        <sig-type>String</sig-type>
        <shellcode>String</shellcode>
        <test>String</test>
        <direction>String</direction>
        <regex>String</regex>
        <domain-name>String</domain-name>
        <constraints>
          <ips-sig-pattern-constraint>
            <arg2>String</arg2>
            <arg1>String</arg1>
            <pattern>String</pattern>
            <constraint-type>String</constraint-type>
            <operator>String</operator>
            <other-pattern>String</other-pattern>
            <anchor>String</anchor>
            <uri>String</uri>
          </ips-sig-pattern-constraint>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </constraints>
        <flow>String</flow>
        <id>Integer</id>
        <order>String</order>
        <pattern>String</pattern>
```


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```
        <domain-id>Integer</domain-id>
        <header-tests>
          <ips-sig-header-test>
            <testvalue>String</testvalue>
            <protocol>String</protocol>
            <vartype>String</vartype>
            <name>String</name>
            <testmatch>String</testmatch>
            <uri>String</uri>
          </ips-sig-header-test>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </header-tests>
        <context>String</context>
        <service>String</service>
        <value>String</value>
        <negated>Boolean</negated>
        <uri>String</uri>
      </ips-sig-attack-member>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </members>
    <timebinding>
      <id>Integer</id>
      <scope>String</scope>
      <count>Long</count>
      <uri>String</uri>
    </timebinding>
    <time-binding-count>Long</time-binding-count>
    <shellcode>String</shellcode>
    <regex>String</regex>
    <detectors>
      <detector>String</detector>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </detectors>
    <protocol-details>String</protocol-details>
    <domain-name>String</domain-name>
    <modified>String</modified>
    <encrypted>Boolean</encrypted>
    <pattern>String</pattern>
    <ordered>Boolean</ordered>
    <context>String</context>
    <service>String</service>
    <import-id>Integer</import-id>
    <false-positives>String</false-positives>
    <negated>Boolean</negated>
    <uri>String</uri>
  </ips-sig-attack>
  <uri>String</uri>
</attacks>
<filters>
  <ips-sig-filter>
    <expression>String</expression>
    <field>String</field>
    <id>Integer</id>
    <uri>String</uri>
    <display-value>String</display-value>
    <display-field>String</display-field>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <filter-value>String</filter-value>
  </ips-sig-filter>
  <uri>String</uri>
```


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```
    </filters>
    <uri>String</uri>
    <fileType>String</fileType>
    <vulType>String</vulType>
    <cvssScore>String</cvssScore>
    <vendor>String</vendor>
</ips-signature>
```

Get All IPS Signatures

This request is used to list all the IPS signatures.

URI	/api/juniper/sd/ips-signature-management/ips-signatures
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.ips-signature-management.ips-signatures+xml;version=1;q=0.01 application/vnd.juniper.sd.ips-signature-management.ips-signatures+json;version=1;q=0.01
Access-Control	manageIDPSig

Sample JSON Output:


```
{
  "ips-signatures" : {
    "ips-signature" : [ {
      "global" : "String",
      "recommended" : "Boolean",
      "id" : "Integer",
      "sig-type" : "String",
      "certs" : "String",
      "bugs" : "String",
      "image-name" : "String",
      "description" : "String",
      "domain-id" : "Integer",
      "cves" : "String",
      "name" : "String",
      "domain-name" : "String",
      "confidence" : "String",
      "performance" : "String",
      "vendor" : "String",
      "service" : "String",
```


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```
      "direction" : "String",
      "severity" : "String",
      "recommended-action" : "String",
      "category" : "String",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "activation-date" : "String",
      "uri" : "String",
      "link" : "String",
      "fileType" : "String",
      "vulType" : "String",
      "ageOfAttack" : "String",
      "cvssScore" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ips-signatures>
  <ips-signature>
    <global>String</global>
    <recommended>Boolean</recommended>
    <id>Integer</id>
    <sig-type>String</sig-type>
    <certs>String</certs>
    <bugs>String</bugs>
    <image-name>String</image-name>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <cves>String</cves>
    <name>String</name>
    <domain-name>String</domain-name>
    <confidence>String</confidence>
    <performance>String</performance>
    <vendor>String</vendor>
    <service>String</service>
    <direction>String</direction>
    <severity>String</severity>
    <recommended-action>String</recommended-action>
    <category>String</category>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <activation-date>String</activation-date>
    <uri>String</uri>
    <link>String</link>
    <fileType>String</fileType>
    <vulType>String</vulType>
    <ageOfAttack>String</ageOfAttack>
    <cvssScore>String</cvssScore>
  </ips-signature>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</ips-signatures>
```


Delete IPS Signature

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This request is used to delete an IPS signature.

URI	/api/juniper/sd/ips-signature-management/ips-signatures/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteIDPSig

Create IPS Signature

This request is used to create a new IPS signature.

URI	/api/juniper/sd/ips-signature-management/ips-signatures
HTTP method	POST
Content-Type	application/vnd.juniper.sd.ips-signature-management.ips-signature+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.ips-signature-management.ips-signature+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.ips-signature-management.ips-signature+xml;version=1;q=0.01 application/vnd.juniper.sd.ips-signature-management.ips-signature+json;version=1;q=0.01
Access-Control	createIDPSig

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Sample JSON Input


```
{
  "ips-signature" : {
    "direction" : {
      "id" : "Integer",
      "values" : {
        "value" : [ "String" ],
        "totalSize" : "Integer"
      }
    },
    "recommended" : "Boolean",
    "activation-date" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "sig-type" : "String",
    "references" : {
      "id" : "Integer",
      "urls" : {
        "url" : [ "String" ],
        "totalSize" : "Integer"
      },
      "certs" : {
        "cert" : [ "String" ],
        "totalSize" : "Integer"
      },
      "bugs" : {
        "bug" : [ "String" ],
        "totalSize" : "Integer"
      },
      "cves" : {
        "cve" : [ "String" ],
        "totalSize" : "Integer"
      }
    },
    "is-group" : "Boolean",
    "predefined" : "Boolean",
    "direction-str" : "String",
    "certs" : "String",
    "url-count" : "Integer",
    "bugs" : "String",
    "image-name" : "String",
    "description" : "String",
    "column-model" : {
      "object-name" : "String",
      "object-type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
"UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT",
"DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP" ]
    },
```


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```
"members" : {
  "ips-signature" : [ {
    "sig-type" : "String",
    "id" : "Integer",
    "name" : "String",
    "recommended" : "Boolean",
    "severity" : "String",
    "category" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ]
  } ]
},
"record" : {
  "id" : "String",
  "column-data-name" : {
    "column-data-name" : [ "String" ],
    "totalSize" : "Integer"
  }
},
"cves" : "String",
"internal-id" : "String",
"edit-version" : "Integer",
"service" : "String",
"services" : {
  "id" : "Integer",
  "values" : {
    "value" : [ "String" ],
    "totalSize" : "Integer"
  }
},
"keywords" : "String",
"update-status" : "String",
"severity" : "String",
"modified" : "String",
"recommended-action" : "String",
"encrypted" : "Boolean",
"category" : "String",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"hash-key" : "String",
"import-id" : "Integer",
"display-name" : "String",
"vulnerability-id" : "Integer",
"attacks" : {
  "ips-sig-attack" : [ {
    "port" : "String",
    "time-binding-scope" : "String",
    "expression" : "String",
    "scope" : "String",
    "protocol-type" : "String",
    "sig-type" : "String",
    "test" : "String",
    "direction" : "String",
    "flow" : "String",
    "id" : "Integer",
    "order" : "String",
    "performance" : "Integer",
    "value" : "String",
    "reset" : "Boolean",
    "members" : {
      "ips-sig-attack-member" : [ {
        "anomaly-id" : "String",
        "sig-type" : "String",
        "shellcode" : "String",
        "test" : "String",
        "direction" : "String",
```


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```
      "regex" : "String",
      "constraints" : {
        "ips-sig-pattern-constraint" : [ {
          "arg2" : "String",
          "arg1" : "String",
          "pattern" : "String",
          "constraint-type" : "String",
          "operator" : "String",
          "other-pattern" : "String",
          "anchor" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "flow" : "String",
      "id" : "Integer",
      "order" : "String",
      "pattern" : "String",
      "header-tests" : {
        "ips-sig-header-test" : [ {
          "testvalue" : "String",
          "protocol" : "String",
          "vartype" : "String",
          "name" : "String",
          "testmatch" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "context" : "String",
      "service" : "String",
      "value" : "String",
      "negated" : "Boolean"
    } ],
    "totalSize" : "Integer"
  },
  "timebinding" : {
    "id" : "Integer",
    "scope" : "String",
    "count" : "Long"
  },
  "time-binding-count" : "Long",
  "shellcode" : "String",
  "regex" : "String",
  "detectors" : {
    "detector" : [ "String" ],
    "totalSize" : "Integer"
  },
  "protocol-details" : "String",
  "modified" : "String",
  "encrypted" : "Boolean",
  "pattern" : "String",
  "ordered" : "Boolean",
  "context" : "String",
  "service" : "String",
  "import-id" : "Integer",
  "false-positives" : "String",
  "negated" : "Boolean"
} ]
},
"filters" : {
  "ips-sig-filter" : [ {
    "expression" : "String",
    "field" : "String",
    "id" : "Integer",
    "display-value" : "String",
```


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```
      "display-field" : "String",
      "filter-value" : "String"
    } ]
  },
  "fileType" : "String",
  "vulType" : "String",
  "cvssScore" : "String",
  "vendor" : "String"
 }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<ips-signature>
  <direction>
    <id>Integer</id>
    <values>
      <value>String</value>
      <totalSize>Integer</totalSize>
    </values>
  </direction>
  <recommended>Boolean</recommended>
  <activation-date>String</activation-date>
  <version>Integer</version>
  <id>Integer</id>
  <sig-type>String</sig-type>
  <references>
    <id>Integer</id>
    <urls>
      <url>String</url>
      <totalSize>Integer</totalSize>
    </urls>
    <certs>
      <cert>String</cert>
      <totalSize>Integer</totalSize>
    </certs>
    <bugs>
      <bug>String</bug>
      <totalSize>Integer</totalSize>
    </bugs>
    <cves>
      <cve>String</cve>
      <totalSize>Integer</totalSize>
    </cves>
  </references>
  <is-group>Boolean</is-group>
  <predefined>Boolean</predefined>
  <direction-str>String</direction-str>
  <certs>String</certs>
  <url-count>Integer</url-count>
  <bugs>String</bugs>
  <image-name>String</image-name>
  <description>String</description>
  <column-model>
    <object-name>String</object-name>
    <object-type>VPN</object-type>
    <object-type>NAT_POLICY</object-type>
    <object-type>APBR_POLICY</object-type>
    <object-type>ADDRESS</object-type>
    <object-type>SSL_PROXY_PROFILE</object-type>
    <object-type>ACCESSPROFILE</object-type>
    <object-type>REDIRECT_APPLICATION_PROFILE</object-type>
    <object-type>SERVICE</object-type>
    <object-type>PORTSET</object-type>
```


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```
    <object-type>APPLICATION_SIGNATURE</object-type>
    <object-type>IPS_SIGNATURE</object-type>
    <object-type>IPS_SIGNATURE_SET</object-type>
    <object-type>IPS_POLICY</object-type>
    <object-type>IPSRULE_TYPE</object-type>
    <object-type>POLICY</object-type>
    <object-type>DCRULE_TYPE</object-type>
    <object-type>NATRULE_TYPE</object-type>
    <object-type>APBR_RULE_TYPE</object-type>
    <object-type>APP_FW_RULE_TYPE</object-type>
    <object-type>NAT_RULE_SET</object-type>
    <object-type>NAT_POOL</object-type>
    <object-type>VPNDEVICE_TYPE</object-type>
    <object-type>VPNENDPOINT_TYPE</object-type>
    <object-type>VARIABLE_DEFINITION</object-type>
    <object-type>POLYZONEDEF_TYPE</object-type>
    <object-type>SOURCEIDENTITY_TYPE</object-type>
    <object-type>SECURITY_DEVICE</object-type>
    <object-type>EXTRANET_DEVICE</object-type>
    <object-type>IPSSIGSET_TYPE</object-type>
    <object-type>SCHEDULER</object-type>
    <object-type>ZONESET</object-type>
    <object-type>ANTI_SPAM_PROFILE</object-type>
    <object-type>ANTI_VIRUS_PROFILE</object-type>
    <object-type>CONTENT_FILTERING_PROFILE</object-type>
    <object-type>WEB_FILTERING_PROFILE</object-type>
    <object-type>URL_CATEGORY_LIST</object-type>
    <object-type>EMAIL_ADDRESS_PATTERN</object-type>
    <object-type>URL_CATEGORIZATION_LIST</object-type>
    <object-type>UTM_DEVICE_PROFILE</object-type>
    <object-type>UTM_POLICY</object-type>
    <object-type>POLICY_PROFILE</object-type>
    <object-type>VPNPROFILE_TYPE</object-type>
    <object-type>SD_PROVISIONING_RESULT</object-type>
    <object-type>DYNAMIC_ADDRESS</object-type>
    <object-type>CHANGE_REQUEST</object-type>
    <object-type>APP_FW_POLICY</object-type>
    <object-type>CHANGE_REQUEST_DEPLOYED</object-type>
    <object-type>THREAT_POLICY</object-type>
    <object-type>BASE_FILTER</object-type>
    <object-type>ACTIVE_DIRECTORY</object-type>
    <object-type>IDENTITY_MANAGEMENT</object-type>
    <object-type>MACHINE_IDENTITY</object-type>
    <object-type>CONDITION</object-type>
    <object-type>ENVIRONMENT_VARIABLE</object-type>
    <object-type>METADATA</object-type>
    <object-type>METADATAEXPRESSION</object-type>
    <object-type>METADATA_PROVIDER</object-type>
    <object-type>GLOBAL</object-type>
    <object-type>UTM_DEFAULT_CONFIGURATION</object-type>
    <object-type>GLOBALIDP</object-type>
    <object-type>ADDRESSPOOL</object-type>
    <object-type>SSLVPNPROFILE</object-type>
    <object-type>SECURE_WEB_PROXY_PROFILE</object-type>
    <object-type>DNS_SECURITY_PROFILE</object-type>
    <object-type>DNS_SECURITY_POLICY</object-type>
    <object-type>DNS_SINKHOLE</object-type>
    <object-type>DNS_FILTER</object-type>
    <object-type>DATA_PLANE_PCAP</object-type>
  </column-model>
  <name>String</name>
  <members>
    <ips-signature>
      <sig-type>String</sig-type>
```


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```
      <id>Integer</id>
      <name>String</name>
      <recommended>Boolean</recommended>
      <severity>String</severity>
      <category>String</category>
      <definition-type>Hidden</definition-type>
      <definition-type>Predefined</definition-type>
      <definition-type>Custom</definition-type>
      <definition-type>All</definition-type>
    </ips-signature>
  </members>
  <record>
    <id>String</id>
    <column-data-name>
      <column-data-name>String</column-data-name>
      <totalSize>Integer</totalSize>
    </column-data-name>
  </record>
  <cves>String</cves>
  <internal-id>String</internal-id>
  <edit-version>Integer</edit-version>
  <service>String</service>
  <services>
    <id>Integer</id>
    <values>
      <value>String</value>
      <totalSize>Integer</totalSize>
    </values>
  </services>
  <keywords>String</keywords>
  <update-status>String</update-status>
  <severity>String</severity>
  <modified>String</modified>
  <recommended-action>String</recommended-action>
  <encrypted>Boolean</encrypted>
  <category>String</category>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <hash-key>String</hash-key>
  <import-id>Integer</import-id>
  <display-name>String</display-name>
  <vulnerability-id>Integer</vulnerability-id>
  <attacks>
    <ips-sig-attack>
      <port>String</port>
      <time-binding-scope>String</time-binding-scope>
      <expression>String</expression>
      <scope>String</scope>
      <protocol-type>String</protocol-type>
      <sig-type>String</sig-type>
      <test>String</test>
      <direction>String</direction>
      <flow>String</flow>
      <id>Integer</id>
      <order>String</order>
      <performance>Integer</performance>
      <value>String</value>
      <reset>Boolean</reset>
      <members>
        <ips-sig-attack-member>
          <anomaly-id>String</anomaly-id>
          <sig-type>String</sig-type>
```


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```
        <shellcode>String</shellcode>
        <test>String</test>
        <direction>String</direction>
        <regex>String</regex>
        <constraints>
          <ips-sig-pattern-constraint>
            <arg2>String</arg2>
            <arg1>String</arg1>
            <pattern>String</pattern>
            <constraint-type>String</constraint-type>
            <operator>String</operator>
            <other-pattern>String</other-pattern>
            <anchor>String</anchor>
          </ips-sig-pattern-constraint>
          <totalSize>Integer</totalSize>
        </constraints>
        <flow>String</flow>
        <id>Integer</id>
        <order>String</order>
        <pattern>String</pattern>
        <header-tests>
          <ips-sig-header-test>
            <testvalue>String</testvalue>
            <protocol>String</protocol>
            <vartype>String</vartype>
            <name>String</name>
            <testmatch>String</testmatch>
          </ips-sig-header-test>
          <totalSize>Integer</totalSize>
        </header-tests>
        <context>String</context>
        <service>String</service>
        <value>String</value>
        <negated>Boolean</negated>
      </ips-sig-attack-member>
      <totalSize>Integer</totalSize>
    </members>
    <timebinding>
      <id>Integer</id>
      <scope>String</scope>
      <count>Long</count>
    </timebinding>
    <time-binding-count>Long</time-binding-count>
    <shellcode>String</shellcode>
    <regex>String</regex>
    <detectors>
      <detector>String</detector>
      <totalSize>Integer</totalSize>
    </detectors>
    <protocol-details>String</protocol-details>
    <modified>String</modified>
    <encrypted>Boolean</encrypted>
    <pattern>String</pattern>
    <ordered>Boolean</ordered>
    <context>String</context>
    <service>String</service>
    <import-id>Integer</import-id>
    <false-positives>String</false-positives>
    <negated>Boolean</negated>
  </ips-sig-attack>
</attacks>
<filters>
  <ips-sig-filter>
    <expression>String</expression>
```


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```
        <field>String</field>
        <id>Integer</id>
        <display-value>String</display-value>
        <display-field>String</display-field>
        <filter-value>String</filter-value>
      </ips-sig-filter>
    </filters>
    <fileType>String</fileType>
    <vulType>String</vulType>
    <cvssScore>String</cvssScore>
    <vendor>String</vendor>
</ips-signature>
```

Sample JSON Output:

```
{
  "ips-signature" : {
    "created-by-user-name" : "String",
    "direction" : {
      "id" : "Integer",
      "values" : {
        "value" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "recommended" : "Boolean",
    "activation-date" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "sig-type" : "String",
    "references" : {
      "id" : "Integer",
      "urls" : {
        "url" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "certs" : {
        "cert" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "bugs" : {
        "bug" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "cves" : {
        "cve" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "is-group" : "Boolean",
    "predefined" : "Boolean",
    "direction-str" : "String",
    "certs" : "String",
    "url-count" : "Integer",
    "bugs" : "String",
```


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```
    "image-name" : "String",
    "description" : "String",
    "domain-id" : "Integer",
    "column-model" : {
      "object-name" : "String",
      "object-type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
"UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT",
"DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP" ],
      "uri" : "String"
    },
    "name" : "String",
    "members" : {
      "ips-signature" : [ {
        "domain-name" : "String",
        "domain-id" : "Integer",
        "sig-type" : "String",
        "id" : "Integer",
        "name" : "String",
        "uri" : "String",
        "link" : "String",
        "recommended" : "Boolean",
        "severity" : "String",
        "category" : "String",
        "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ]
      } ],
      "uri" : "String"
    },
    "record" : {
      "id" : "String",
      "uri" : "String",
      "column-data-name" : {
        "column-data-name" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      }
    },
    "cves" : "String",
    "internal-id" : "String",
    "edit-version" : "Integer",
    "service" : "String",
    "services" : {
      "id" : "Integer",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String",
      "values" : {
        "value" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
```


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```
},
"keywords" : "String",
"global" : "String",
"update-status" : "String",
"domain-name" : "String",
"severity" : "String",
"modified" : "String",
"recommended-action" : "String",
"last-modified-by-user-name" : "String",
"encrypted" : "Boolean",
"category" : "String",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"hash-key" : "String",
"import-id" : "Integer",
"display-name" : "String",
"vulnerability-id" : "Integer",
"attacks" : {
  "ips-sig-attack" : [ {
    "port" : "String",
    "time-binding-scope" : "String",
    "expression" : "String",
    "scope" : "String",
    "protocol-type" : "String",
    "sig-type" : "String",
    "test" : "String",
    "direction" : "String",
    "flow" : "String",
    "id" : "Integer",
    "order" : "String",
    "performance" : "Integer",
    "domain-id" : "Integer",
    "value" : "String",
    "reset" : "Boolean",
    "members" : {
      "ips-sig-attack-member" : [ {
        "anomaly-id" : "String",
        "sig-type" : "String",
        "shellcode" : "String",
        "test" : "String",
        "direction" : "String",
        "regex" : "String",
        "domain-name" : "String",
        "constraints" : {
          "ips-sig-pattern-constraint" : [ {
            "arg2" : "String",
            "arg1" : "String",
            "pattern" : "String",
            "constraint-type" : "String",
            "operator" : "String",
            "other-pattern" : "String",
            "anchor" : "String",
            "uri" : "String"
          } ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "flow" : "String",
        "id" : "Integer",
        "order" : "String",
        "pattern" : "String",
        "domain-id" : "Integer",
        "header-tests" : {
          "ips-sig-header-test" : [ {
            "testvalue" : "String",
```


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```
            "protocol" : "String",
            "vartype" : "String",
            "name" : "String",
            "testmatch" : "String",
            "uri" : "String"
          } ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "context" : "String",
        "service" : "String",
        "value" : "String",
        "negated" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "timebinding" : {
      "id" : "Integer",
      "scope" : "String",
      "count" : "Long",
      "uri" : "String"
    },
    "time-binding-count" : "Long",
    "shellcode" : "String",
    "regex" : "String",
    "detectors" : {
      "detector" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "protocol-details" : "String",
    "domain-name" : "String",
    "modified" : "String",
    "encrypted" : "Boolean",
    "pattern" : "String",
    "ordered" : "Boolean",
    "context" : "String",
    "service" : "String",
    "import-id" : "Integer",
    "false-positives" : "String",
    "negated" : "Boolean",
    "uri" : "String"
  } ],
  "uri" : "String"
},
"filters" : {
  "ips-sig-filter" : [ {
    "expression" : "String",
    "field" : "String",
    "id" : "Integer",
    "uri" : "String",
    "display-value" : "String",
    "display-field" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "filter-value" : "String"
  } ],
  "uri" : "String"
},
"uri" : "String",
"fileType" : "String",
"vulType" : "String",
```


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```
    "cvssScore" : "String",
    "vendor" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ips-signature>
  <created-by-user-name>String</created-by-user-name>
  <direction>
    <id>Integer</id>
    <values>
      <value>String</value>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </values>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
  </direction>
  <recommended>Boolean</recommended>
  <activation-date>String</activation-date>
  <version>Integer</version>
  <id>Integer</id>
  <sig-type>String</sig-type>
  <references>
    <id>Integer</id>
    <urls>
      <url>String</url>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </urls>
    <certs>
      <cert>String</cert>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </certs>
    <bugs>
      <bug>String</bug>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </bugs>
    <cves>
      <cve>String</cve>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </cves>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
  </references>
  <is-group>Boolean</is-group>
  <predefined>Boolean</predefined>
  <direction-str>String</direction-str>
  <certs>String</certs>
  <url-count>Integer</url-count>
  <bugs>String</bugs>
  <image-name>String</image-name>
  <description>String</description>
```


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```
<domain-id>Integer</domain-id>
<column-model>
  <object-name>String</object-name>
  <object-type>VPN</object-type>
  <object-type>NAT_POLICY</object-type>
  <object-type>APBR_POLICY</object-type>
  <object-type>ADDRESS</object-type>
  <object-type>SSL_PROXY_PROFILE</object-type>
  <object-type>ACCESSPROFILE</object-type>
  <object-type>REDIRECT_APPLICATION_PROFILE</object-type>
  <object-type>SERVICE</object-type>
  <object-type>PORTSET</object-type>
  <object-type>APPLICATION_SIGNATURE</object-type>
  <object-type>IPS_SIGNATURE</object-type>
  <object-type>IPS_SIGNATURE_SET</object-type>
  <object-type>IPS_POLICY</object-type>
  <object-type>IPSRULE_TYPE</object-type>
  <object-type>POLICY</object-type>
  <object-type>DCRULE_TYPE</object-type>
  <object-type>NATRULE_TYPE</object-type>
  <object-type>APBR_RULE_TYPE</object-type>
  <object-type>APP_FW_RULE_TYPE</object-type>
  <object-type>NAT_RULE_SET</object-type>
  <object-type>NAT_POOL</object-type>
  <object-type>VPNDEVICE_TYPE</object-type>
  <object-type>VPNENDPOINT_TYPE</object-type>
  <object-type>VARIABLE_DEFINITION</object-type>
  <object-type>POLYZONEDEF_TYPE</object-type>
  <object-type>SOURCEIDENTITY_TYPE</object-type>
  <object-type>SECURITY_DEVICE</object-type>
  <object-type>EXTRANET_DEVICE</object-type>
  <object-type>IPSSIGSET_TYPE</object-type>
  <object-type>SCHEDULER</object-type>
  <object-type>ZONESET</object-type>
  <object-type>ANTI_SPAM_PROFILE</object-type>
  <object-type>ANTI_VIRUS_PROFILE</object-type>
  <object-type>CONTENT_FILTERING_PROFILE</object-type>
  <object-type>WEB_FILTERING_PROFILE</object-type>
  <object-type>URL_CATEGORY_LIST</object-type>
  <object-type>EMAIL_ADDRESS_PATTERN</object-type>
  <object-type>URL_CATEGORIZATION_LIST</object-type>
  <object-type>UTM_DEVICE_PROFILE</object-type>
  <object-type>UTM_POLICY</object-type>
  <object-type>POLICY_PROFILE</object-type>
  <object-type>VPNPROFILE_TYPE</object-type>
  <object-type>SD_PROVISIONING_RESULT</object-type>
  <object-type>DYNAMIC_ADDRESS</object-type>
  <object-type>CHANGE_REQUEST</object-type>
  <object-type>APP_FW_POLICY</object-type>
  <object-type>CHANGE_REQUEST_DEPLOYED</object-type>
  <object-type>THREAT_POLICY</object-type>
  <object-type>BASE_FILTER</object-type>
  <object-type>ACTIVE_DIRECTORY</object-type>
  <object-type>IDENTITY_MANAGEMENT</object-type>
  <object-type>MACHINE_IDENTITY</object-type>
  <object-type>CONDITION</object-type>
  <object-type>ENVIRONMENT_VARIABLE</object-type>
  <object-type>METADATA</object-type>
  <object-type>METADATAEXPRESSION</object-type>
  <object-type>METADATA_PROVIDER</object-type>
  <object-type>GLOBAL</object-type>
  <object-type>UTM_DEFAULT_CONFIGURATION</object-type>
  <object-type>GLOBALIDP</object-type>
  <object-type>ADDRESSPOOL</object-type>
```


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```
    <object-type>SSLVPNPROFILE</object-type>
    <object-type>SECURE_WEB_PROXY_PROFILE</object-type>
    <object-type>DNS_SECURITY_PROFILE</object-type>
    <object-type>DNS_SECURITY_POLICY</object-type>
    <object-type>DNS_SINKHOLE</object-type>
    <object-type>DNS_FILTER</object-type>
    <object-type>DATA_PLANE_PCAP</object-type>
    <uri>String</uri>
  </column-model>
  <name>String</name>
  <members>
    <ips-signature>
      <domain-name>String</domain-name>
      <domain-id>Integer</domain-id>
      <sig-type>String</sig-type>
      <id>Integer</id>
      <name>String</name>
      <uri>String</uri>
      <link>String</link>
      <recommended>Boolean</recommended>
      <severity>String</severity>
      <category>String</category>
      <definition-type>Hidden</definition-type>
      <definition-type>Predefined</definition-type>
      <definition-type>Custom</definition-type>
      <definition-type>All</definition-type>
    </ips-signature>
    <uri>String</uri>
  </members>
  <record>
    <id>String</id>
    <uri>String</uri>
    <column-data-name>
      <column-data-name>String</column-data-name>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </column-data-name>
  </record>
  <cves>String</cves>
  <internal-id>String</internal-id>
  <edit-version>Integer</edit-version>
  <service>String</service>
  <services>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
    <values>
      <value>String</value>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </values>
  </services>
  <keywords>String</keywords>
  <global>String</global>
  <update-status>String</update-status>
  <domain-name>String</domain-name>
  <severity>String</severity>
  <modified>String</modified>
  <recommended-action>String</recommended-action>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <encrypted>Boolean</encrypted>
  <category>String</category>
  <definition-type>Hidden</definition-type>
```


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```
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
<definition-type>All</definition-type>
<hash-key>String</hash-key>
<import-id>Integer</import-id>
<display-name>String</display-name>
<vulnerability-id>Integer</vulnerability-id>
<attacks>
  <ips-sig-attack>
    <port>String</port>
    <time-binding-scope>String</time-binding-scope>
    <expression>String</expression>
    <scope>String</scope>
    <protocol-type>String</protocol-type>
    <sig-type>String</sig-type>
    <test>String</test>
    <direction>String</direction>
    <flow>String</flow>
    <id>Integer</id>
    <order>String</order>
    <performance>Integer</performance>
    <domain-id>Integer</domain-id>
    <value>String</value>
    <reset>Boolean</reset>
    <members>
      <ips-sig-attack-member>
        <anomaly-id>String</anomaly-id>
        <sig-type>String</sig-type>
        <shellcode>String</shellcode>
        <test>String</test>
        <direction>String</direction>
        <regex>String</regex>
        <domain-name>String</domain-name>
        <constraints>
          <ips-sig-pattern-constraint>
            <arg2>String</arg2>
            <arg1>String</arg1>
            <pattern>String</pattern>
            <constraint-type>String</constraint-type>
            <operator>String</operator>
            <other-pattern>String</other-pattern>
            <anchor>String</anchor>
            <uri>String</uri>
          </ips-sig-pattern-constraint>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </constraints>
        <flow>String</flow>
        <id>Integer</id>
        <order>String</order>
        <pattern>String</pattern>
        <domain-id>Integer</domain-id>
        <header-tests>
          <ips-sig-header-test>
            <testvalue>String</testvalue>
            <protocol>String</protocol>
            <vartype>String</vartype>
            <name>String</name>
            <testmatch>String</testmatch>
            <uri>String</uri>
          </ips-sig-header-test>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </header-tests>
```


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```
            <context>String</context>
            <service>String</service>
            <value>String</value>
            <negated>Boolean</negated>
            <uri>String</uri>
          </ips-sig-attack-member>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </members>
        <timebinding>
          <id>Integer</id>
          <scope>String</scope>
          <count>Long</count>
          <uri>String</uri>
        </timebinding>
        <time-binding-count>Long</time-binding-count>
        <shellcode>String</shellcode>
        <regex>String</regex>
        <detectors>
          <detector>String</detector>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </detectors>
        <protocol-details>String</protocol-details>
        <domain-name>String</domain-name>
        <modified>String</modified>
        <encrypted>Boolean</encrypted>
        <pattern>String</pattern>
        <ordered>Boolean</ordered>
        <context>String</context>
        <service>String</service>
        <import-id>Integer</import-id>
        <false-positives>String</false-positives>
        <negated>Boolean</negated>
        <uri>String</uri>
      </ips-sig-attack>
      <uri>String</uri>
    </attacks>
    <filters>
      <ips-sig-filter>
        <expression>String</expression>
        <field>String</field>
        <id>Integer</id>
        <uri>String</uri>
        <display-value>String</display-value>
        <display-field>String</display-field>
        <domain-name>String</domain-name>
        <domain-id>Integer</domain-id>
        <filter-value>String</filter-value>
      </ips-sig-filter>
      <uri>String</uri>
    </filters>
    <uri>String</uri>
    <fileType>String</fileType>
    <vulType>String</vulType>
    <cvssScore>String</cvssScore>
    <vendor>String</vendor>
</ips-signature>
```


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CHAPTER 26

Identity Management RESTful Web Services

The following opertions can be performed using Secuirty Director Identity Management RESTful Web Services

Delete Identity Management Profile

This request is used to delete the Identity Management Profile.

URI	/api/juniper/sd/identity-management/v1/jims/delete?deleteFromDevice=Boolean
HTTP method	POST
Content-Type	application/xml application/json
Accept-Type	application/xml application/json
Access-Control	deleteIdentityManagement

Sample JSON Input

```
{
  "id-list" : {
    "ids" : [ "Integer" ],
    "total" : "Integer"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
   <total>Integer</total>
</id-list>
```

Sample JSON Output:

```
{
  "task" : {
    "id" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<task>
   <id>String</id>
</task>
```

Preview IdenityManagement Profile

This request is used to preview the config of the Identity Management Profile.

URI	/api/juniper/sd/identity-management/v1/jims/provisioning/preview?sdDeviceId=Integer
HTTP method	POST
Content-Type	application/xml application/json
Accept-Type	application/xml application/json
Access-Control	deployIdentityManagement

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Sample JSON Input

```
{
  "preview" : {
    "policy-ids" : {
      "policy-id" : [ "Integer" ]
    },
    "previewType" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<preview>
   <policy-ids>
      <policy-id>Integer</policy-id>
   </policy-ids>
   <previewType>String</previewType>
</preview>
```

Sample JSON Output:

```
{
  "task" : {
    "id" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<task>
   <id>String</id>
</task>
```

Get List of Devices associated with Identity Management Profile

This request is used to get list of devices associated with the Identity Management Profile.

URI	/api/juniper/sd/identity-management/v1/jims/{id}/devices-to-update/
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json

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Access-Control	manageIdentityManagement

Sample JSON Output:


```
{
  "devices" : {
    "device" : [ {
      "device-type" : [ "LSYS", "ROOT", "TSYS" ],
      "device-ip" : "String",
      "connection-status" : "String",
      "configuration-status" : "String",
      "connection-type" : "String",
      "management-status" : [ "Managed", "In Sync", "SD Changed", "Device Changed", "SD Changed
Device Changed" ],
      "root-lsys-id" : "Integer",
      "platform" : "String",
      "device-id" : "String",
      "lsys-count" : "Integer",
      "domain-id" : "Integer",
      "software-release" : "String",
      "id" : "Integer",
      "name" : "String",
      "cluster-id" : "String",
      "cluster" : "Boolean",
      "domain-name" : "String",
      "device-family" : "String",
      "uri" : "String",
      "link" : "String",
      "root-device-name" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<devices>
  <device>
    <device-type>LSYS</device-type>
    <device-type>ROOT</device-type>
    <device-type>TSYS</device-type>
    <device-ip>String</device-ip>
    <connection-status>String</connection-status>
    <configuration-status>String</configuration-status>
    <connection-type>String</connection-type>
    <management-status>Managed</management-status>
    <management-status>In Sync</management-status>
    <management-status>SD Changed</management-status>
    <management-status>Device Changed</management-status>
    <management-status>SD Changed Device Changed</management-status>
    <root-lsys-id>Integer</root-lsys-id>
    <platform>String</platform>
    <device-id>String</device-id>
    <lsys-count>Integer</lsys-count>
    <domain-id>Integer</domain-id>
    <software-release>String</software-release>
```


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```
    <id>Integer</id>
    <name>String</name>
    <cluster-id>String</cluster-id>
    <cluster>Boolean</cluster>
    <domain-name>String</domain-name>
    <device-family>String</device-family>
    <uri>String</uri>
    <link>String</link>
    <root-device-name>String</root-device-name>
  </device>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</devices>
```

Get List of devices available to assign with Identity Management Profile

This request is used to get list of devices available to assign with the Identity Management Profile.

URI	/api/juniper/sd/identity-management/v1/jims/devices
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	manageIdentityManagement

Sample JSON Output:

```
{
  "devices" : {
    "device" : [ {
      "device-type" : [ "LSYS", "ROOT", "TSYS" ],
      "device-ip" : "String",
      "connection-status" : "String",
      "configuration-status" : "String",
      "connection-type" : "String",
      "management-status" : [ "Managed", "In Sync", "SD Changed", "Device Changed", "SD Changed
Device Changed" ],
      "root-lsys-id" : "Integer",
      "platform" : "String",
      "device-id" : "String",
      "lsys-count" : "Integer",
      "domain-id" : "Integer",
      "software-release" : "String",
      "id" : "Integer",
      "name" : "String",
```


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```
      "cluster-id" : "String",
      "cluster" : "Boolean",
      "domain-name" : "String",
      "device-family" : "String",
      "uri" : "String",
      "link" : "String",
      "root-device-name" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<devices>
  <device>
    <device-type>LSYS</device-type>
    <device-type>ROOT</device-type>
    <device-type>TSYS</device-type>
    <device-ip>String</device-ip>
    <connection-status>String</connection-status>
    <configuration-status>String</configuration-status>
    <connection-type>String</connection-type>
    <management-status>Managed</management-status>
    <management-status>In Sync</management-status>
    <management-status>SD Changed</management-status>
    <management-status>Device Changed</management-status>
    <management-status>SD Changed Device Changed</management-status>
    <root-lsys-id>Integer</root-lsys-id>
    <platform>String</platform>
    <device-id>String</device-id>
    <lsys-count>Integer</lsys-count>
    <domain-id>Integer</domain-id>
    <software-release>String</software-release>
    <id>Integer</id>
    <name>String</name>
    <cluster-id>String</cluster-id>
    <cluster>Boolean</cluster>
    <domain-name>String</domain-name>
    <device-family>String</device-family>
    <uri>String</uri>
    <link>String</link>
    <root-device-name>String</root-device-name>
  </device>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</devices>
```


Get List of Ids of devices associated with Identity Management Profile

This request is used to get list of device Ids associated with the Identity Management Profile.

URI	/api/juniper/sd/identity-management/v1/jims/{id}/devices-to-update/select-all

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HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	deployActiveDirectory

Sample JSON Output:


```
{
  "select-ids" : {
    "select-id" : [ {
      "id" : "Integer",
      "domainId" : "Integer",
      "name" : "String"
    } ],
    "total" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<select-ids>
   <select-id>
      <id>Integer</id>
      <domainId>Integer</domainId>
      <name>String</name>
   </select-id>
   <total>Integer</total>
</select-ids>
```


Modiy Identity Management Profile

This request is used to modify the Identity Management Profile

URI	/api/juniper/sd/identity-management/v1/jims/{id}
HTTP method	PUT
Content-Type	application/xml application/json

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Accept-Type	application/xml application/json
Access-Control	modifyIdentityManagement

Sample JSON Input


```
{
  "identity-management" : {
    "version" : "Integer",
    "job-id" : "String",
    "edit-version" : "Integer",
    "description" : "String",
    "secondary-address" : "String",
    "exclude-filter-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ]
      } ],
      "totalSize" : "Integer"
    },
    "no-ip-query" : "Boolean",
    "secondary-certificate-path" : "String",
    "connect-method" : "String",
    "query-interval" : "Integer",
    "port" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "authentication-entry-timeout" : "Integer",
    "delete-from-device" : "Boolean",
    "primary-certificate-path" : "String",
    "query-api" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "token-api" : "String",
    "query-delay-time" : "Integer",
    "client-secret" : "String",
    "client-id" : "String",
    "domain-filters" : {
      "domain-filter" : [ "String" ],
      "totalSize" : "Integer"
    },
    "include-filter-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ]
      } ],
      "totalSize" : "Integer"
    },
    "items-per-batch" : "Integer",
    "primary-address" : "String",
    "device-list" : {
      "identity-management-devices" : [ {
        "id" : "Integer",
        "name" : "String",
```


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```
      "client-secret" : "String",
      "client-id" : "String",
      "ip" : "String"
    } ],
    "totalSize" : "Integer"
  }
 }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<identity-management>
  <version>Integer</version>
  <job-id>String</job-id>
  <edit-version>Integer</edit-version>
  <description>String</description>
  <secondary-address>String</secondary-address>
  <exclude-filter-addresses>
    <address-reference>
      <id>Integer</id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
    </address-reference>
    <totalSize>Integer</totalSize>
  </exclude-filter-addresses>
  <no-ip-query>Boolean</no-ip-query>
  <secondary-certificate-path>String</secondary-certificate-path>
  <connect-method>String</connect-method>
  <query-interval>Integer</query-interval>
  <port>Integer</port>
  <id>Integer</id>
  <name>String</name>
  <authentication-entry-timeout>Integer</authentication-entry-timeout>
  <delete-from-device>Boolean</delete-from-device>
  <primary-certificate-path>String</primary-certificate-path>
  <query-api>String</query-api>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <token-api>String</token-api>
  <query-delay-time>Integer</query-delay-time>
  <client-secret>String</client-secret>
  <client-id>String</client-id>
  <domain-filters>
    <domain-filter>String</domain-filter>
    <totalSize>Integer</totalSize>
```


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```
  </domain-filters>
  <include-filter-addresses>
    <address-reference>
      <id>Integer</id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
    </address-reference>
    <totalSize>Integer</totalSize>
  </include-filter-addresses>
  <items-per-batch>Integer</items-per-batch>
  <primary-address>String</primary-address>
  <device-list>
    <identity-management-devices>
      <id>Integer</id>
      <name>String</name>
      <client-secret>String</client-secret>
      <client-id>String</client-id>
      <ip>String</ip>
    </identity-management-devices>
    <totalSize>Integer</totalSize>
  </device-list>
</identity-management>
```

Sample JSON Output:

```
{
  "identity-management" : {
    "version" : "Integer",
    "job-id" : "String",
    "edit-version" : "Integer",
    "description" : "String",
    "secondary-address" : "String",
    "exclude-filter-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "uri" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "no-ip-query" : "Boolean",
    "secondary-certificate-path" : "String",
    "connect-method" : "String",
    "query-interval" : "Integer",
    "created-by-user-name" : "String",
    "port" : "Integer",
```


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```
    "id" : "Integer",
    "name" : "String",
    "authentication-entry-timeout" : "Integer",
    "delete-from-device" : "Boolean",
    "primary-certificate-path" : "String",
    "query-api" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "last-modified-by-user-name" : "String",
    "token-api" : "String",
    "query-delay-time" : "Integer",
    "client-secret" : "String",
    "client-id" : "String",
    "domain-filters" : {
      "domain-filter" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "include-filter-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "uri" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "global" : "String",
    "items-per-batch" : "Integer",
    "primary-address" : "String",
    "device-list" : {
      "identity-management-devices" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "client-secret" : "String",
        "client-id" : "String",
        "ip" : "String",
        "uri" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "domain-id" : "Integer",
    "uri" : "String",
    "link" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<identity-management>
  <version>Integer</version>
  <job-id>String</job-id>
  <edit-version>Integer</edit-version>
  <description>String</description>
  <secondary-address>String</secondary-address>
  <exclude-filter-addresses>
    <address-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
```


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```
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <uri>String</uri>
    </address-reference>
    <totalSize>Integer</totalSize>
</exclude-filter-addresses>
<no-ip-query>Boolean</no-ip-query>
<secondary-certificate-path>String</secondary-certificate-path>
<connect-method>String</connect-method>
<query-interval>Integer</query-interval>
<created-by-user-name>String</created-by-user-name>
<port>Integer</port>
<id>Integer</id>
<name>String</name>
<authentication-entry-timeout>Integer</authentication-entry-timeout>
<delete-from-device>Boolean</delete-from-device>
<primary-certificate-path>String</primary-certificate-path>
<query-api>String</query-api>
<definition-type>Hidden</definition-type>
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
<definition-type>All</definition-type>
<last-modified-by-user-name>String</last-modified-by-user-name>
<token-api>String</token-api>
<query-delay-time>Integer</query-delay-time>
<client-secret>String</client-secret>
<client-id>String</client-id>
<domain-filters>
  <domain-filter>String</domain-filter>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</domain-filters>
<include-filter-addresses>
  <address-reference>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <address-type>IPADDRESS</address-type>
    <address-type>DELETED_1</address-type>
    <address-type>GROUP</address-type>
    <address-type>RANGE</address-type>
    <address-type>NETWORK</address-type>
    <address-type>INTERNET</address-type>
    <address-type>WILDCARD</address-type>
    <address-type>DNS</address-type>
    <address-type>POLYMORPHIC</address-type>
    <address-type>ANY</address-type>
    <address-type>ANY_IPV4</address-type>
    <address-type>ANY_IPV6</address-type>
```


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```
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
        <uri>String</uri>
      </address-reference>
      <totalSize>Integer</totalSize>
    </include-filter-addresses>
    <global>String</global>
    <items-per-batch>Integer</items-per-batch>
    <primary-address>String</primary-address>
    <device-list>
      <identity-management-devices>
        <id>Integer</id>
        <domain-id>Integer</domain-id>
        <name>String</name>
        <client-secret>String</client-secret>
        <client-id>String</client-id>
        <ip>String</ip>
        <uri>String</uri>
      </identity-management-devices>
      <totalSize>Integer</totalSize>
    </device-list>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
    <link>String</link>
  </identity-management>
```

Get IdentityManagement By ID

This request is used to list the Identity Management By ID

URI	/api/juniper/sd/identity-management/v1/jims/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	manageIdentityManagement

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Sample JSON Output:


```
{
  "identity-management" : {
    "version" : "Integer",
    "job-id" : "String",
    "edit-version" : "Integer",
    "description" : "String",
    "secondary-address" : "String",
    "exclude-filter-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "uri" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "no-ip-query" : "Boolean",
    "secondary-certificate-path" : "String",
    "connect-method" : "String",
    "query-interval" : "Integer",
    "created-by-user-name" : "String",
    "port" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "authentication-entry-timeout" : "Integer",
    "delete-from-device" : "Boolean",
    "primary-certificate-path" : "String",
    "query-api" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "last-modified-by-user-name" : "String",
    "token-api" : "String",
    "query-delay-time" : "Integer",
    "client-secret" : "String",
    "client-id" : "String",
    "domain-filters" : {
      "domain-filter" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "include-filter-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "uri" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "global" : "String",
    "items-per-batch" : "Integer",
    "primary-address" : "String",
    "device-list" : {
      "identity-management-devices" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
```


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```
      "client-secret" : "String",
      "client-id" : "String",
      "ip" : "String",
      "uri" : "String"
    } ],
    "totalSize" : "Integer"
  },
  "domain-id" : "Integer",
  "uri" : "String",
  "link" : "String"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<identity-management>
  <version>Integer</version>
  <job-id>String</job-id>
  <edit-version>Integer</edit-version>
  <description>String</description>
  <secondary-address>String</secondary-address>
  <exclude-filter-addresses>
    <address-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <uri>String</uri>
    </address-reference>
    <totalSize>Integer</totalSize>
  </exclude-filter-addresses>
  <no-ip-query>Boolean</no-ip-query>
  <secondary-certificate-path>String</secondary-certificate-path>
  <connect-method>String</connect-method>
  <query-interval>Integer</query-interval>
  <created-by-user-name>String</created-by-user-name>
  <port>Integer</port>
  <id>Integer</id>
  <name>String</name>
  <authentication-entry-timeout>Integer</authentication-entry-timeout>
  <delete-from-device>Boolean</delete-from-device>
  <primary-certificate-path>String</primary-certificate-path>
  <query-api>String</query-api>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
```


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```
<last-modified-by-user-name>String</last-modified-by-user-name>
<token-api>String</token-api>
<query-delay-time>Integer</query-delay-time>
<client-secret>String</client-secret>
<client-id>String</client-id>
<domain-filters>
  <domain-filter>String</domain-filter>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</domain-filters>
<include-filter-addresses>
  <address-reference>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <address-type>IPADDRESS</address-type>
    <address-type>DELETED_1</address-type>
    <address-type>GROUP</address-type>
    <address-type>RANGE</address-type>
    <address-type>NETWORK</address-type>
    <address-type>INTERNET</address-type>
    <address-type>WILDCARD</address-type>
    <address-type>DNS</address-type>
    <address-type>POLYMORPHIC</address-type>
    <address-type>ANY</address-type>
    <address-type>ANY_IPV4</address-type>
    <address-type>ANY_IPV6</address-type>
    <address-type>ALL_IPV6</address-type>
    <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
    <address-type>Z_TYPE_IMPORT</address-type>
    <address-type>IPS_TYPE_IMPORT</address-type>
    <address-type>FEED_TYPE</address-type>
    <uri>String</uri>
  </address-reference>
  <totalSize>Integer</totalSize>
</include-filter-addresses>
<global>String</global>
<items-per-batch>Integer</items-per-batch>
<primary-address>String</primary-address>
<device-list>
  <identity-management-devices>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <client-secret>String</client-secret>
    <client-id>String</client-id>
    <ip>String</ip>
    <uri>String</uri>
  </identity-management-devices>
  <totalSize>Integer</totalSize>
</device-list>
<domain-id>Integer</domain-id>
<uri>String</uri>
<link>String</link>
</identity-management>
```

Get All

This request is used to get list of all the Identity Management Profile.

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URI	/api/juniper/sd/identity-management/v1/jims
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	manageIdentityManagement

Sample JSON Output:


```
{
  "identity-managements" : {
    "identity-management" : [ {
      "id" : "Integer",
      "port" : "Integer",
      "query-interval" : "Integer",
      "connect-method" : "String",
      "secondary-certificate-path" : "String",
      "no-ip-query" : "Boolean",
      "default-profile" : "Boolean",
      "exclude-filter-addresses" : {
        "address-reference" : [ {
          "id" : "Integer",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ]
        } ]
      },
      "secondary-address" : "String",
      "description" : "String",
      "name" : "String",
      "primary-address" : "String",
      "items-per-batch" : "Integer",
      "include-filter-addresses" : {
        "address-reference" : [ {
          "id" : "Integer",
          "domain-id" : "Integer",
          "name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ]
        } ]
      },
      "domain-filters" : {
        "domain-filter" : [ "String" ],
        "totalSize" : "Integer"
      },
```


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```
    "query-delay-time" : "Integer",
    "device-list" : {
      "identity-management-devices" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "client-secret" : "String",
        "client-id" : "String",
        "ip" : "String"
      } ]
    },
    "token-api" : "String",
    "query-api" : "String",
    "primary-certificate-path" : "String",
    "domain-id" : "Integer",
    "authentication-entry-timeout" : "Integer",
    "client-secret" : "String",
    "client-id" : "String",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<identity-managements>
  <identity-management>
    <id>Integer</id>
    <port>Integer</port>
    <query-interval>Integer</query-interval>
    <connect-method>String</connect-method>
    <secondary-certificate-path>String</secondary-certificate-path>
    <no-ip-query>Boolean</no-ip-query>
    <default-profile>Boolean</default-profile>
    <exclude-filter-addresses>
      <address-reference>
        <id>Integer</id>
        <domain-id>Integer</domain-id>
        <name>String</name>
        <address-type>IPADDRESS</address-type>
        <address-type>DELETED_1</address-type>
        <address-type>GROUP</address-type>
        <address-type>RANGE</address-type>
        <address-type>NETWORK</address-type>
        <address-type>INTERNET</address-type>
        <address-type>WILDCARD</address-type>
        <address-type>DNS</address-type>
        <address-type>POLYMORPHIC</address-type>
        <address-type>ANY</address-type>
        <address-type>ANY_IPV4</address-type>
        <address-type>ANY_IPV6</address-type>
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
      </address-reference>
    </exclude-filter-addresses>
    <secondary-address>String</secondary-address>
    <description>String</description>
```


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```
      <name>String</name>
      <primary-address>String</primary-address>
      <items-per-batch>Integer</items-per-batch>
      <include-filter-addresses>
        <address-reference>
          <id>Integer</id>
          <domain-id>Integer</domain-id>
          <name>String</name>
          <address-type>IPADDRESS</address-type>
          <address-type>DELETED_1</address-type>
          <address-type>GROUP</address-type>
          <address-type>RANGE</address-type>
          <address-type>NETWORK</address-type>
          <address-type>INTERNET</address-type>
          <address-type>WILDCARD</address-type>
          <address-type>DNS</address-type>
          <address-type>POLYMORPHIC</address-type>
          <address-type>ANY</address-type>
          <address-type>ANY_IPV4</address-type>
          <address-type>ANY_IPV6</address-type>
          <address-type>ALL_IPV6</address-type>
          <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
          <address-type>Z_TYPE_IMPORT</address-type>
          <address-type>IPS_TYPE_IMPORT</address-type>
          <address-type>FEED_TYPE</address-type>
        </address-reference>
      </include-filter-addresses>
      <domain-filters>
        <domain-filter>String</domain-filter>
        <totalSize>Integer</totalSize>
      </domain-filters>
      <query-delay-time>Integer</query-delay-time>
      <device-list>
        <identity-management-devices>
          <id>Integer</id>
          <domain-id>Integer</domain-id>
          <name>String</name>
          <client-secret>String</client-secret>
          <client-id>String</client-id>
          <ip>String</ip>
        </identity-management-devices>
      </device-list>
      <token-api>String</token-api>
      <query-api>String</query-api>
      <primary-certificate-path>String</primary-certificate-path>
      <domain-id>Integer</domain-id>
      <authentication-entry-timeout>Integer</authentication-entry-timeout>
      <client-secret>String</client-secret>
      <client-id>String</client-id>
      <uri>String</uri>
      <link>String</link>
    </identity-management>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </identity-managements>
```


Update

This request is used to pusg the Identity Management Profile config to device.

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URI	/api/juniper/sd/identity-management/v1/jims/provisioning/{id}/update
HTTP method	POST
Content-Type	application/xml application/json
Accept-Type	application/xml application/json
Access-Control	deployIdentityManagement

Sample JSON Input

```
{
  "deploy-request" : {
    "device-ids" : {
      "device-id" : [ "Integer" ]
    }
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<deploy-request>
   <device-ids>
      <device-id>Integer</device-id>
   </device-ids>
</deploy-request>
```

Sample JSON Output:

```
{
  "task" : {
    "id" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<task>
   <id>String</id>
</task>
```


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Create IdentityManagement Profile.

This request is used to create a Identity Management Profile.

URI	/api/juniper/sd/identity-management/v1/jims
HTTP method	POST
Content-Type	application/xml application/json
Accept-Type	application/xml application/json
Access-Control	createIdentityManagement

Sample JSON Input

```
{
  "identity-management" : {
    "version" : "Integer",
    "job-id" : "String",
    "edit-version" : "Integer",
    "description" : "String",
    "secondary-address" : "String",
    "exclude-filter-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ]
      } ],
      "totalSize" : "Integer"
    },
    "no-ip-query" : "Boolean",
    "secondary-certificate-path" : "String",
    "connect-method" : "String",
    "query-interval" : "Integer",
    "port" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "authentication-entry-timeout" : "Integer",
    "delete-from-device" : "Boolean",
    "primary-certificate-path" : "String",
    "query-api" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "token-api" : "String",
    "query-delay-time" : "Integer",
    "client-secret" : "String",
```


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```
    "client-id" : "String",
    "domain-filters" : {
      "domain-filter" : [ "String" ],
      "totalSize" : "Integer"
    },
    "include-filter-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ]
      } ],
      "totalSize" : "Integer"
    },
    "items-per-batch" : "Integer",
    "primary-address" : "String",
    "device-list" : {
      "identity-management-devices" : [ {
        "id" : "Integer",
        "name" : "String",
        "client-secret" : "String",
        "client-id" : "String",
        "ip" : "String"
      } ],
      "totalSize" : "Integer"
    }
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<identity-management>
  <version>Integer</version>
  <job-id>String</job-id>
  <edit-version>Integer</edit-version>
  <description>String</description>
  <secondary-address>String</secondary-address>
  <exclude-filter-addresses>
    <address-reference>
      <id>Integer</id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
    </address-reference>
    <totalSize>Integer</totalSize>
  </exclude-filter-addresses>
  <no-ip-query>Boolean</no-ip-query>
  <secondary-certificate-path>String</secondary-certificate-path>
  <connect-method>String</connect-method>
```


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```
  <query-interval>Integer</query-interval>
  <port>Integer</port>
  <id>Integer</id>
  <name>String</name>
  <authentication-entry-timeout>Integer</authentication-entry-timeout>
  <delete-from-device>Boolean</delete-from-device>
  <primary-certificate-path>String</primary-certificate-path>
  <query-api>String</query-api>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <token-api>String</token-api>
  <query-delay-time>Integer</query-delay-time>
  <client-secret>String</client-secret>
  <client-id>String</client-id>
  <domain-filters>
    <domain-filter>String</domain-filter>
    <totalSize>Integer</totalSize>
  </domain-filters>
  <include-filter-addresses>
    <address-reference>
      <id>Integer</id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
    </address-reference>
    <totalSize>Integer</totalSize>
  </include-filter-addresses>
  <items-per-batch>Integer</items-per-batch>
  <primary-address>String</primary-address>
  <device-list>
    <identity-management-devices>
      <id>Integer</id>
      <name>String</name>
      <client-secret>String</client-secret>
      <client-id>String</client-id>
      <ip>String</ip>
    </identity-management-devices>
    <totalSize>Integer</totalSize>
  </device-list>
</identity-management>
```


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Sample JSON Output:


```
{
  "identity-management" : {
    "version" : "Integer",
    "job-id" : "String",
    "edit-version" : "Integer",
    "description" : "String",
    "secondary-address" : "String",
    "exclude-filter-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "uri" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "no-ip-query" : "Boolean",
    "secondary-certificate-path" : "String",
    "connect-method" : "String",
    "query-interval" : "Integer",
    "created-by-user-name" : "String",
    "port" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "authentication-entry-timeout" : "Integer",
    "delete-from-device" : "Boolean",
    "primary-certificate-path" : "String",
    "query-api" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "last-modified-by-user-name" : "String",
    "token-api" : "String",
    "query-delay-time" : "Integer",
    "client-secret" : "String",
    "client-id" : "String",
    "domain-filters" : {
      "domain-filter" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "include-filter-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "uri" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "global" : "String",
    "items-per-batch" : "Integer",
    "primary-address" : "String",
    "device-list" : {
      "identity-management-devices" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
```


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```
      "client-secret" : "String",
      "client-id" : "String",
      "ip" : "String",
      "uri" : "String"
    } ],
    "totalSize" : "Integer"
  },
  "domain-id" : "Integer",
  "uri" : "String",
  "link" : "String"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<identity-management>
  <version>Integer</version>
  <job-id>String</job-id>
  <edit-version>Integer</edit-version>
  <description>String</description>
  <secondary-address>String</secondary-address>
  <exclude-filter-addresses>
    <address-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <uri>String</uri>
    </address-reference>
    <totalSize>Integer</totalSize>
  </exclude-filter-addresses>
  <no-ip-query>Boolean</no-ip-query>
  <secondary-certificate-path>String</secondary-certificate-path>
  <connect-method>String</connect-method>
  <query-interval>Integer</query-interval>
  <created-by-user-name>String</created-by-user-name>
  <port>Integer</port>
  <id>Integer</id>
  <name>String</name>
  <authentication-entry-timeout>Integer</authentication-entry-timeout>
  <delete-from-device>Boolean</delete-from-device>
  <primary-certificate-path>String</primary-certificate-path>
  <query-api>String</query-api>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
```


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```
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <token-api>String</token-api>
  <query-delay-time>Integer</query-delay-time>
  <client-secret>String</client-secret>
  <client-id>String</client-id>
  <domain-filters>
    <domain-filter>String</domain-filter>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </domain-filters>
  <include-filter-addresses>
    <address-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <uri>String</uri>
    </address-reference>
    <totalSize>Integer</totalSize>
  </include-filter-addresses>
  <global>String</global>
  <items-per-batch>Integer</items-per-batch>
  <primary-address>String</primary-address>
  <device-list>
    <identity-management-devices>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <client-secret>String</client-secret>
      <client-id>String</client-id>
      <ip>String</ip>
      <uri>String</uri>
    </identity-management-devices>
    <totalSize>Integer</totalSize>
  </device-list>
  <domain-id>Integer</domain-id>
  <uri>String</uri>
  <link>String</link>
</identity-management>
```


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CHAPTER 27

License Management RESTful Web Services

The following opertions can be performed using Secuirty Director License Management RESTful Web Services

Get License Push History By Security Director Device ID

This request is used to get license push history by Security Director device Id

URI	/api/juniper/sd/license-management/license-histories/{deviceId}
HTTP method	GET
Content-Type	None
Accept-Type	application/json
Access-Control	manageLicenseManagement

Sample JSON Output:

```
{
  "license-history" : [ {
    "id" : "Integer",
    "deviceId" : "String",
    "deviceName" : "String",
    "featureName" : "String",
    "status" : "String",
    "logs" : "String",
    "pushedTime" : "Date",
    "licenseKey" : "String"
  } ],
  "total" : "int"
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<license-history>
  <id>Integer</id>
  <deviceId>String</deviceId>
  <deviceName>String</deviceName>
  <featureName>String</featureName>
  <status>String</status>
  <logs>String</logs>
  <pushedTime>Date</pushedTime>
  <licenseKey>String</licenseKey>
</license-history>
<total>int</total>
```

Get Schedule Details

This request is used to get schedule details

URI	/api/juniper/sd/license-management/schedule
HTTP method	GET
Content-Type	None
Accept-Type	application/json
Access-Control	manageLicenseManagement

Sample JSON Output:

```
{
  "schedule" : [ {
    "id" : "int",
    "scheduleId" : "int",
    "recurrence" : "boolean",
    "scheduleUnit" : "String",
    "repeatInterval" : "String",
    "selectDay" : "String",
    "startTime" : "Date",
    "user" : "String"
  } ],
  "total" : "int"
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<schedule>
  <id>int</id>
  <scheduleId>int</scheduleId>
  <recurrence>boolean</recurrence>
  <scheduleUnit>String</scheduleUnit>
  <repeatInterval>String</repeatInterval>
  <selectDay>String</selectDay>
  <startTime>Date</startTime>
  <user>String</user>
</schedule>
<total>int</total>
```

Update Schedule Details

This request is used to update schedule details

URI	/api/juniper/sd/license-management/schedule
HTTP method	PUT
Content-Type	application/json
Accept-Type	application/json
Access-Control	modifyLicenseManagement

Sample JSON Input

```
{
  "id" : "int",
  "scheduleId" : "int",
  "recurrence" : "boolean",
  "scheduleUnit" : "String",
  "repeatInterval" : "String",
  "selectDay" : "String",
  "startTime" : "Date",
  "user" : "String"
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id>int</id>
<scheduleId>int</scheduleId>
<recurrence>boolean</recurrence>
<scheduleUnit>String</scheduleUnit>
<repeatInterval>String</repeatInterval>
<selectDay>String</selectDay>
<startTime>Date</startTime>
<user>String</user>
```

Sample JSON Output:

```
{
  "license-feature-response" : {
    "id" : "int",
    "ids" : [ "Integer" ],
    "status" : "String",
    "fileName" : "String",
    "text" : "String",
    "notification-enabled" : "boolean"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<license-feature-response>
   <id>int</id>
   <ids>Integer</ids>
   <status>String</status>
   <fileName>String</fileName>
   <text>String</text>
   <notification-enabled>boolean</notification-enabled>
</license-feature-response>
```

Get Mail Notification Status

This request is used to get mail notification status

URI	/api/juniper/sd/license-management/sync-preference
HTTP method	GET
Content-Type	None
Accept-Type	application/json
Access-Control	manageLicenseManagement

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Sample JSON Output:


```
{
  "license-feature-response" : {
    "id" : "int",
    "ids" : [ "Integer" ],
    "status" : "String",
    "fileName" : "String",
    "text" : "String",
    "notification-enabled" : "boolean"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<license-feature-response>
   <id>int</id>
   <ids>Integer</ids>
   <status>String</status>
   <fileName>String</fileName>
   <text>String</text>
   <notification-enabled>boolean</notification-enabled>
</license-feature-response>
```


Update Mail Notification Settings

This request is used to update mail notification settings

URI	/api/juniper/sd/license-management/update-preference
HTTP method	POST
Content-Type	application/json
Accept-Type	application/json
Access-Control	modifyLicenseManagement

Sample JSON Input


```
{
  "license-feature-response" : {
    "id" : "int",
    "ids" : [ "Integer" ],
    "status" : "String",
    "fileName" : "String",
    "text" : "String",
    "notification-enabled" : "boolean"
  }
```


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}

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<license-feature-response>
  <id>int</id>
  <ids>Integer</ids>
  <status>String</status>
  <fileName>String</fileName>
  <text>String</text>
  <notification-enabled>boolean</notification-enabled>
</license-feature-response>
```

Sample JSON Output:

```
{
 "license-feature-response" : {
   "id" : "int",
   "ids" : [ "Integer" ],
   "status" : "String",
   "fileName" : "String",
   "text" : "String",
   "notification-enabled" : "boolean"
 }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<license-feature-response>
  <id>int</id>
  <ids>Integer</ids>
  <status>String</status>
  <fileName>String</fileName>
  <text>String</text>
  <notification-enabled>boolean</notification-enabled>
</license-feature-response>
```

Gel License Inventory By Security Director Device ID

This request is used to get license inventory by Security Director device Id

URI	/api/juniper/sd/license-management/license-inventories/{deviceId}
HTTP method	GET
Content-Type	None

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Accept-Type	application/json
Access-Control	manageLicenseManagement

Sample JSON Output:


```
{
  "license-inventory" : [ {
    "id" : "Integer",
    "name" : "String",
    "deviceIP" : "String",
    "deviceId" : "String",
    "serialNumber" : "String",
    "schemaVersion" : "String",
    "managementStatus" : "String",
    "configurationStatus" : "String",
    "connectionStatus" : "String",
    "deviceFamily" : "String",
    "deviceType" : "String",
    "domainId" : "Integer",
    "platform" : "String",
    "uri" : "String",
    "href" : "String",
    "anti_virus" : {
      "id" : "int",
      "name" : "String",
      "user" : "String",
      "given" : "int",
      "licensed" : "int",
      "licenseName" : "String",
      "used" : "int",
      "needed" : "int",
      "state" : "String",
      "active" : "boolean",
      "type" : "String",
      "startDate" : "Date",
      "endDate" : "Date",
      "timeRemaining" : "String"
    },
    "anti_spam_key_sbl" : {
      "id" : "int",
      "name" : "String",
      "user" : "String",
      "given" : "int",
      "licensed" : "int",
      "licenseName" : "String",
      "used" : "int",
      "needed" : "int",
      "state" : "String",
      "active" : "boolean",
      "type" : "String",
      "startDate" : "Date",
      "endDate" : "Date",
      "timeRemaining" : "String"
    },
    "sky_atp" : {
      "id" : "int",
      "name" : "String",
      "user" : "String",
```


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```
  "given" : "int",
  "licensed" : "int",
  "licenseName" : "String",
  "used" : "int",
  "needed" : "int",
  "state" : "String",
  "active" : "boolean",
  "type" : "String",
  "startDate" : "Date",
  "endDate" : "Date",
  "timeRemaining" : "String"
},
"idp_sig" : {
  "id" : "int",
  "name" : "String",
  "user" : "String",
  "given" : "int",
  "licensed" : "int",
  "licenseName" : "String",
  "used" : "int",
  "needed" : "int",
  "state" : "String",
  "active" : "boolean",
  "type" : "String",
  "startDate" : "Date",
  "endDate" : "Date",
  "timeRemaining" : "String"
},
"utm" : {
  "id" : "int",
  "name" : "String",
  "user" : "String",
  "given" : "int",
  "licensed" : "int",
  "licenseName" : "String",
  "used" : "int",
  "needed" : "int",
  "state" : "String",
  "active" : "boolean",
  "type" : "String",
  "startDate" : "Date",
  "endDate" : "Date",
  "timeRemaining" : "String"
},
"virtual_appliance" : {
  "id" : "int",
  "name" : "String",
  "user" : "String",
  "given" : "int",
  "licensed" : "int",
  "licenseName" : "String",
  "used" : "int",
  "needed" : "int",
  "state" : "String",
  "active" : "boolean",
  "type" : "String",
  "startDate" : "Date",
  "endDate" : "Date",
  "timeRemaining" : "String"
},
"csrx" : {
  "id" : "int",
  "name" : "String",
  "user" : "String",
```


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```
    "given" : "int",
    "licensed" : "int",
    "licenseName" : "String",
    "used" : "int",
    "needed" : "int",
    "state" : "String",
    "active" : "boolean",
    "type" : "String",
    "startDate" : "Date",
    "endDate" : "Date",
    "timeRemaining" : "String"
   }
  } ],
  "totalSummary" : {
   "total" : {
    "isDeviceDetail" : "boolean",
    "count" : "int",
    "devices" : [ {
     "name" : "String",
     "feature" : "String"
    } ]
   },
   "used" : {
    "isDeviceDetail" : "boolean",
    "count" : "int",
    "devices" : [ {
     "name" : "String",
     "feature" : "String"
    } ]
   },
   "oversubscribed" : {
    "isDeviceDetail" : "boolean",
    "count" : "int",
    "devices" : [ {
     "name" : "String",
     "feature" : "String"
    } ]
   },
   "undersubscribed" : {
    "isDeviceDetail" : "boolean",
    "count" : "int",
    "devices" : [ {
     "name" : "String",
     "feature" : "String"
    } ]
   },
   "expired" : {
    "isDeviceDetail" : "boolean",
    "count" : "int",
    "devices" : [ {
     "name" : "String",
     "feature" : "String"
    } ]
   },
   "expiring" : {
    "isDeviceDetail" : "boolean",
    "count" : "int",
    "devices" : [ {
     "name" : "String",
     "feature" : "String"
    } ]
   }
  },
  "license-total" : "int"
```


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}

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<license-inventory>
  <id>Integer</id>
  <name>String</name>
  <deviceIP>String</deviceIP>
  <deviceId>String</deviceId>
  <serialNumber>String</serialNumber>
  <schemaVersion>String</schemaVersion>
  <managementStatus>String</managementStatus>
  <configurationStatus>String</configurationStatus>
  <connectionStatus>String</connectionStatus>
  <deviceFamily>String</deviceFamily>
  <deviceType>String</deviceType>
  <domainId>Integer</domainId>
  <platform>String</platform>
  <uri>String</uri>
  <href>String</href>
  <anti_virus>
    <id>int</id>
    <name>String</name>
    <user>String</user>
    <given>int</given>
    <licensed>int</licensed>
    <licenseName>String</licenseName>
    <used>int</used>
    <needed>int</needed>
    <state>String</state>
    <active>boolean</active>
    <type>String</type>
    <startDate>Date</startDate>
    <endDate>Date</endDate>
    <timeRemaining>String</timeRemaining>
  </anti_virus>
  <anti_spam_key_sbl>
    <id>int</id>
    <name>String</name>
    <user>String</user>
    <given>int</given>
    <licensed>int</licensed>
    <licenseName>String</licenseName>
    <used>int</used>
    <needed>int</needed>
    <state>String</state>
    <active>boolean</active>
    <type>String</type>
    <startDate>Date</startDate>
    <endDate>Date</endDate>
    <timeRemaining>String</timeRemaining>
  </anti_spam_key_sbl>
  <sky_atp>
    <id>int</id>
    <name>String</name>
    <user>String</user>
```


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```
    <given>int</given>
    <licensed>int</licensed>
    <licenseName>String</licenseName>
    <used>int</used>
    <needed>int</needed>
    <state>String</state>
    <active>boolean</active>
    <type>String</type>
    <startDate>Date</startDate>
    <endDate>Date</endDate>
    <timeRemaining>String</timeRemaining>
  </sky_atp>
  <idp_sig>
    <id>int</id>
    <name>String</name>
    <user>String</user>
    <given>int</given>
    <licensed>int</licensed>
    <licenseName>String</licenseName>
    <used>int</used>
    <needed>int</needed>
    <state>String</state>
    <active>boolean</active>
    <type>String</type>
    <startDate>Date</startDate>
    <endDate>Date</endDate>
    <timeRemaining>String</timeRemaining>
  </idp_sig>
  <utm>
    <id>int</id>
    <name>String</name>
    <user>String</user>
    <given>int</given>
    <licensed>int</licensed>
    <licenseName>String</licenseName>
    <used>int</used>
    <needed>int</needed>
    <state>String</state>
    <active>boolean</active>
    <type>String</type>
    <startDate>Date</startDate>
    <endDate>Date</endDate>
    <timeRemaining>String</timeRemaining>
  </utm>
  <virtual_appliance>
    <id>int</id>
    <name>String</name>
    <user>String</user>
    <given>int</given>
    <licensed>int</licensed>
    <licenseName>String</licenseName>
    <used>int</used>
    <needed>int</needed>
    <state>String</state>
    <active>boolean</active>
    <type>String</type>
    <startDate>Date</startDate>
    <endDate>Date</endDate>
    <timeRemaining>String</timeRemaining>
  </virtual_appliance>
  <csrx>
    <id>int</id>
    <name>String</name>
    <user>String</user>
```


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```
      <given>int</given>
      <licensed>int</licensed>
      <licenseName>String</licenseName>
      <used>int</used>
      <needed>int</needed>
      <state>String</state>
      <active>boolean</active>
      <type>String</type>
      <startDate>Date</startDate>
      <endDate>Date</endDate>
      <timeRemaining>String</timeRemaining>
    </csrx>
</license-inventory>
<totalSummary>
  <total>
    <isDeviceDetail>boolean</isDeviceDetail>
    <count>int</count>
    <devices>
      <name>String</name>
      <feature>String</feature>
    </devices>
  </total>
  <used>
    <isDeviceDetail>boolean</isDeviceDetail>
    <count>int</count>
    <devices>
      <name>String</name>
      <feature>String</feature>
    </devices>
  </used>
  <oversubscribed>
    <isDeviceDetail>boolean</isDeviceDetail>
    <count>int</count>
    <devices>
      <name>String</name>
      <feature>String</feature>
    </devices>
  </oversubscribed>
  <undersubscribed>
    <isDeviceDetail>boolean</isDeviceDetail>
    <count>int</count>
    <devices>
      <name>String</name>
      <feature>String</feature>
    </devices>
  </undersubscribed>
  <expired>
    <isDeviceDetail>boolean</isDeviceDetail>
    <count>int</count>
    <devices>
      <name>String</name>
      <feature>String</feature>
    </devices>
  </expired>
  <expiring>
    <isDeviceDetail>boolean</isDeviceDetail>
    <count>int</count>
    <devices>
      <name>String</name>
      <feature>String</feature>
    </devices>
  </expiring>
</totalSummary>
<license-total>int</license-total>
```


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Gel License Inventory By Platform Device ID

This request is used to get license inventory by Platform device Id

URI	/api/juniper/sd/license-management/license-details/{deviceId}
HTTP method	GET
Content-Type	None
Accept-Type	application/json
Access-Control	manageLicenseManagement

Sample JSON Output:


```
{
  "license" : [ {
    "id" : "int",
    "name" : "String",
    "state" : "String",
    "user" : "String",
    "active" : "boolean",
    "startDate" : "Date",
    "endDate" : "Date",
    "timeRemaining" : "String"
  } ],
  "total" : "int"
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<license>
  <id>int</id>
  <name>String</name>
  <state>String</state>
  <user>String</user>
  <active>boolean</active>
  <startDate>Date</startDate>
  <endDate>Date</endDate>
  <timeRemaining>String</timeRemaining>
</license>
<total>int</total>
```

Upload License File

Uploads a license file to the system.

URI	/api/juniper/sd/license-management/license-upload
HTTP method	POST
Content-Type	multipart/form-data
Accept-Type	application/json
Access-Control	deployLicenseManagement

Sample JSON Input

```
{}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
```


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Sample JSON Output:


```
{
  "license-feature-response" : {
    "id" : "int",
    "ids" : [ "Integer" ],
    "status" : "String",
    "fileName" : "String",
    "text" : "String",
    "notification-enabled" : "boolean"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<license-feature-response>
   <id>int</id>
   <ids>Integer</ids>
   <status>String</status>
   <fileName>String</fileName>
   <text>String</text>
   <notification-enabled>boolean</notification-enabled>
</license-feature-response>
```


Push License

This request is used to push license by copy paste method. It returns the Job Id which helps to check the final status in Job Management page

URI	/api/juniper/sd/license-management/license-apply
HTTP method	POST
Content-Type	application/json
Accept-Type	application/json
Access-Control	deployLicenseManagement

Sample JSON Input


```
{
  "licenseType" : "String",
  "licenseFile" : "String",
  "licenseText" : "String",
  "deviceList" : [ "String" ]
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<licenseType>String</licenseType>
<licenseFile>String</licenseFile>
<licenseText>String</licenseText>
<deviceList>String</deviceList>
```

Sample JSON Output:

```
{
  "task" : {
    "id" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<task>
   <id>String</id>
</task>
```

Get Recipient By ID

This request is used to get recipient by Id

URI	/api/juniper/sd/license-management/recipients/{recipientId}
HTTP method	GET
Content-Type	None
Accept-Type	application/json
Access-Control	manageLicenseManagement

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Sample JSON Output:


```
{
  "id" : "int",
  "mailId" : "String",
  "days" : "int",
  "isActive" : "boolean"
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<id>int</id>
<mailId>String</mailId>
<days>int</days>
<isActive>boolean</isActive>
```


Get All Recipients

This request is used to get all recipients

URI	/api/juniper/sd/license-management/recipients
HTTP method	GET
Content-Type	None
Accept-Type	application/json
Access-Control	manageLicenseManagement

Sample JSON Output:


```
{
  "recipient" : [ {
    "id" : "int",
    "mailId" : "String",
    "days" : "int",
    "isActive" : "boolean"
  } ],
  "total" : "int"
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<recipient>
  <id>int</id>
  <mailId>String</mailId>
  <days>int</days>
  <isActive>boolean</isActive>
</recipient>
<total>int</total>
```

Add Recipient

This request is used to add recipient

URI	/api/juniper/sd/license-management/recipients
HTTP method	POST
Content-Type	application/json
Accept-Type	application/json
Access-Control	modifyLicenseManagement

Sample JSON Input

```
{
  "id" : "int",
  "mailId" : "String",
  "days" : "int",
  "isActive" : "boolean"
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id>int</id>
<mailId>String</mailId>
<days>int</days>
<isActive>boolean</isActive>
```


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Sample JSON Output:


```
{
  "license-feature-response" : {
    "id" : "int",
    "ids" : [ "Integer" ],
    "status" : "String",
    "fileName" : "String",
    "text" : "String",
    "notification-enabled" : "boolean"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<license-feature-response>
   <id>int</id>
   <ids>Integer</ids>
   <status>String</status>
   <fileName>String</fileName>
   <text>String</text>
   <notification-enabled>boolean</notification-enabled>
</license-feature-response>
```


Update Recipient By ID

This request is used to update recipient by Id

URI	/api/juniper/sd/license-management/recipients/{recipientId}
HTTP method	PUT
Content-Type	application/json
Accept-Type	application/json
Access-Control	modifyLicenseManagement

Sample JSON Input


```
{
  "id" : "int",
  "mailId" : "String",
  "days" : "int",
  "isActive" : "boolean"
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id>int</id>
<mailId>String</mailId>
<days>int</days>
<isActive>boolean</isActive>
```

Sample JSON Output:

```
{
  "license-feature-response" : {
    "id" : "int",
    "ids" : [ "Integer" ],
    "status" : "String",
    "fileName" : "String",
    "text" : "String",
    "notification-enabled" : "boolean"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<license-feature-response>
   <id>int</id>
   <ids>Integer</ids>
   <status>String</status>
   <fileName>String</fileName>
   <text>String</text>
   <notification-enabled>boolean</notification-enabled>
</license-feature-response>
```

Delete Recipient By ID

This request is used to delete recipient by Id

URI	/api/juniper/sd/license-management/recipients/{recipientId}
HTTP method	DELETE
Content-Type	None
Accept-Type	application/json
Access-Control	deleteLicenseManagement

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Sample JSON Output:


```
{
  "license-feature-response" : {
    "id" : "int",
    "ids" : [ "Integer" ],
    "status" : "String",
    "fileName" : "String",
    "text" : "String",
    "notification-enabled" : "boolean"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<license-feature-response>
  <id>int</id>
  <ids>Integer</ids>
  <status>String</status>
  <fileName>String</fileName>
  <text>String</text>
  <notification-enabled>boolean</notification-enabled>
</license-feature-response>
```


Delete Recipients By ID's

This request is used to delete recipients by Id's

URI	/api/juniper/sd/license-management/recipients/deletes
HTTP method	POST
Content-Type	application/json
Accept-Type	application/json
Access-Control	deleteLicenseManagement

Sample JSON Input


```
{
  "license-feature-response" : {
    "id" : "int",
    "ids" : [ "Integer" ],
    "status" : "String",
    "fileName" : "String",
    "text" : "String",
    "notification-enabled" : "boolean"
  }
```


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```
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<license-feature-response>
  <id>int</id>
  <ids>Integer</ids>
  <status>String</status>
  <fileName>String</fileName>
  <text>String</text>
  <notification-enabled>boolean</notification-enabled>
</license-feature-response>
```

Sample JSON Output:

```
{
 "license-feature-response" : {
   "id" : "int",
   "ids" : [ "Integer" ],
   "status" : "String",
   "fileName" : "String",
   "text" : "String",
   "notification-enabled" : "boolean"
 }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<license-feature-response>
  <id>int</id>
  <ids>Integer</ids>
  <status>String</status>
  <fileName>String</fileName>
  <text>String</text>
  <notification-enabled>boolean</notification-enabled>
</license-feature-response>
```

Gel All License Inventories

This request is used to get all license inventories

URI	/api/juniper/sd/license-management/license-inventories
HTTP method	GET
Content-Type	None

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Accept-Type	application/json
Access-Control	manageLicenseManagement

Sample JSON Output:


```
{
  "license-inventory" : [ {
    "id" : "Integer",
    "name" : "String",
    "deviceIP" : "String",
    "deviceId" : "String",
    "serialNumber" : "String",
    "schemaVersion" : "String",
    "managementStatus" : "String",
    "configurationStatus" : "String",
    "connectionStatus" : "String",
    "deviceFamily" : "String",
    "deviceType" : "String",
    "domainId" : "Integer",
    "platform" : "String",
    "uri" : "String",
    "href" : "String",
    "anti_virus" : {
      "id" : "int",
      "name" : "String",
      "user" : "String",
      "given" : "int",
      "licensed" : "int",
      "licenseName" : "String",
      "used" : "int",
      "needed" : "int",
      "state" : "String",
      "active" : "boolean",
      "type" : "String",
      "startDate" : "Date",
      "endDate" : "Date",
      "timeRemaining" : "String"
    },
    "anti_spam_key_sbl" : {
      "id" : "int",
      "name" : "String",
      "user" : "String",
      "given" : "int",
      "licensed" : "int",
      "licenseName" : "String",
      "used" : "int",
      "needed" : "int",
      "state" : "String",
      "active" : "boolean",
      "type" : "String",
      "startDate" : "Date",
      "endDate" : "Date",
      "timeRemaining" : "String"
    },
    "sky_atp" : {
      "id" : "int",
      "name" : "String",
      "user" : "String",
```


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```
  "given" : "int",
  "licensed" : "int",
  "licenseName" : "String",
  "used" : "int",
  "needed" : "int",
  "state" : "String",
  "active" : "boolean",
  "type" : "String",
  "startDate" : "Date",
  "endDate" : "Date",
  "timeRemaining" : "String"
},
"idp_sig" : {
  "id" : "int",
  "name" : "String",
  "user" : "String",
  "given" : "int",
  "licensed" : "int",
  "licenseName" : "String",
  "used" : "int",
  "needed" : "int",
  "state" : "String",
  "active" : "boolean",
  "type" : "String",
  "startDate" : "Date",
  "endDate" : "Date",
  "timeRemaining" : "String"
},
"utm" : {
  "id" : "int",
  "name" : "String",
  "user" : "String",
  "given" : "int",
  "licensed" : "int",
  "licenseName" : "String",
  "used" : "int",
  "needed" : "int",
  "state" : "String",
  "active" : "boolean",
  "type" : "String",
  "startDate" : "Date",
  "endDate" : "Date",
  "timeRemaining" : "String"
},
"virtual_appliance" : {
  "id" : "int",
  "name" : "String",
  "user" : "String",
  "given" : "int",
  "licensed" : "int",
  "licenseName" : "String",
  "used" : "int",
  "needed" : "int",
  "state" : "String",
  "active" : "boolean",
  "type" : "String",
  "startDate" : "Date",
  "endDate" : "Date",
  "timeRemaining" : "String"
},
"csrx" : {
  "id" : "int",
  "name" : "String",
  "user" : "String",
```


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```
      "given" : "int",
      "licensed" : "int",
      "licenseName" : "String",
      "used" : "int",
      "needed" : "int",
      "state" : "String",
      "active" : "boolean",
      "type" : "String",
      "startDate" : "Date",
      "endDate" : "Date",
      "timeRemaining" : "String"
    }
  } ],
  "totalSummary" : {
    "total" : {
      "isDeviceDetail" : "boolean",
      "count" : "int",
      "devices" : [ {
        "name" : "String",
        "feature" : "String"
      } ]
    },
    "used" : {
      "isDeviceDetail" : "boolean",
      "count" : "int",
      "devices" : [ {
        "name" : "String",
        "feature" : "String"
      } ]
    },
    "oversubscribed" : {
      "isDeviceDetail" : "boolean",
      "count" : "int",
      "devices" : [ {
        "name" : "String",
        "feature" : "String"
      } ]
    },
    "undersubscribed" : {
      "isDeviceDetail" : "boolean",
      "count" : "int",
      "devices" : [ {
        "name" : "String",
        "feature" : "String"
      } ]
    },
    "expired" : {
      "isDeviceDetail" : "boolean",
      "count" : "int",
      "devices" : [ {
        "name" : "String",
        "feature" : "String"
      } ]
    },
    "expiring" : {
      "isDeviceDetail" : "boolean",
      "count" : "int",
      "devices" : [ {
        "name" : "String",
        "feature" : "String"
      } ]
    }
  },
  "license-total" : "int"
```


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}

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<license-inventory>
  <id>Integer</id>
  <name>String</name>
  <deviceIP>String</deviceIP>
  <deviceId>String</deviceId>
  <serialNumber>String</serialNumber>
  <schemaVersion>String</schemaVersion>
  <managementStatus>String</managementStatus>
  <configurationStatus>String</configurationStatus>
  <connectionStatus>String</connectionStatus>
  <deviceFamily>String</deviceFamily>
  <deviceType>String</deviceType>
  <domainId>Integer</domainId>
  <platform>String</platform>
  <uri>String</uri>
  <href>String</href>
  <anti_virus>
    <id>int</id>
    <name>String</name>
    <user>String</user>
    <given>int</given>
    <licensed>int</licensed>
    <licenseName>String</licenseName>
    <used>int</used>
    <needed>int</needed>
    <state>String</state>
    <active>boolean</active>
    <type>String</type>
    <startDate>Date</startDate>
    <endDate>Date</endDate>
    <timeRemaining>String</timeRemaining>
  </anti_virus>
  <anti_spam_key_sbl>
    <id>int</id>
    <name>String</name>
    <user>String</user>
    <given>int</given>
    <licensed>int</licensed>
    <licenseName>String</licenseName>
    <used>int</used>
    <needed>int</needed>
    <state>String</state>
    <active>boolean</active>
    <type>String</type>
    <startDate>Date</startDate>
    <endDate>Date</endDate>
    <timeRemaining>String</timeRemaining>
  </anti_spam_key_sbl>
  <sky_atp>
    <id>int</id>
    <name>String</name>
    <user>String</user>
```


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```
    <given>int</given>
    <licensed>int</licensed>
    <licenseName>String</licenseName>
    <used>int</used>
    <needed>int</needed>
    <state>String</state>
    <active>boolean</active>
    <type>String</type>
    <startDate>Date</startDate>
    <endDate>Date</endDate>
    <timeRemaining>String</timeRemaining>
  </sky_atp>
  <idp_sig>
    <id>int</id>
    <name>String</name>
    <user>String</user>
    <given>int</given>
    <licensed>int</licensed>
    <licenseName>String</licenseName>
    <used>int</used>
    <needed>int</needed>
    <state>String</state>
    <active>boolean</active>
    <type>String</type>
    <startDate>Date</startDate>
    <endDate>Date</endDate>
    <timeRemaining>String</timeRemaining>
  </idp_sig>
  <utm>
    <id>int</id>
    <name>String</name>
    <user>String</user>
    <given>int</given>
    <licensed>int</licensed>
    <licenseName>String</licenseName>
    <used>int</used>
    <needed>int</needed>
    <state>String</state>
    <active>boolean</active>
    <type>String</type>
    <startDate>Date</startDate>
    <endDate>Date</endDate>
    <timeRemaining>String</timeRemaining>
  </utm>
  <virtual_appliance>
    <id>int</id>
    <name>String</name>
    <user>String</user>
    <given>int</given>
    <licensed>int</licensed>
    <licenseName>String</licenseName>
    <used>int</used>
    <needed>int</needed>
    <state>String</state>
    <active>boolean</active>
    <type>String</type>
    <startDate>Date</startDate>
    <endDate>Date</endDate>
    <timeRemaining>String</timeRemaining>
  </virtual_appliance>
  <csrx>
    <id>int</id>
    <name>String</name>
    <user>String</user>
```


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```
      <given>int</given>
      <licensed>int</licensed>
      <licenseName>String</licenseName>
      <used>int</used>
      <needed>int</needed>
      <state>String</state>
      <active>boolean</active>
      <type>String</type>
      <startDate>Date</startDate>
      <endDate>Date</endDate>
      <timeRemaining>String</timeRemaining>
    </csrx>
</license-inventory>
<totalSummary>
  <total>
    <isDeviceDetail>boolean</isDeviceDetail>
    <count>int</count>
    <devices>
      <name>String</name>
      <feature>String</feature>
    </devices>
  </total>
  <used>
    <isDeviceDetail>boolean</isDeviceDetail>
    <count>int</count>
    <devices>
      <name>String</name>
      <feature>String</feature>
    </devices>
  </used>
  <oversubscribed>
    <isDeviceDetail>boolean</isDeviceDetail>
    <count>int</count>
    <devices>
      <name>String</name>
      <feature>String</feature>
    </devices>
  </oversubscribed>
  <undersubscribed>
    <isDeviceDetail>boolean</isDeviceDetail>
    <count>int</count>
    <devices>
      <name>String</name>
      <feature>String</feature>
    </devices>
  </undersubscribed>
  <expired>
    <isDeviceDetail>boolean</isDeviceDetail>
    <count>int</count>
    <devices>
      <name>String</name>
      <feature>String</feature>
    </devices>
  </expired>
  <expiring>
    <isDeviceDetail>boolean</isDeviceDetail>
    <count>int</count>
    <devices>
      <name>String</name>
      <feature>String</feature>
    </devices>
  </expiring>
</totalSummary>
<license-total>int</license-total>
```


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CHAPTER 28

Machine Identify Rest Services

The following opertions can be performed using Secuirty Director Machine Identify Rest Services

Get Machine Identify Values

URI	/api/juniper/sd/machine-identity-management/v1/machine-identities/values
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageMachineIdentity

Sample JSON Output:

```
{
  "machine-type" : {
    "machinetypes" : [ "String" ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<machine-type>
  <machinetypes>String</machinetypes>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</machine-type>
```


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CHAPTER 29

NAT Pool Management RESTful Web Services

The following opertions can be performed using Secuirty Director NAT Pool Management RESTful Web Services

Get All NAT Pools

This request is used to list all the NAT pools.

URI	/api/juniper/sd/nat-pool-management/nat-pools
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.nat-pool-management.nat-pools+xml;version=2;q=0.02 application/vnd.juniper.sd.nat-pool-management.nat-pools+json;version=2;q=0.02
Access-Control	manageNATPool

Sample JSON Output:


```
{
  "nat-pools" : {
    "nat-pool" : [ {
      "pool-address" : {
        "domain-name" : "String",
        "domain-id" : "Integer",
        "id" : "String",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "uri" : "String"
      },
      "pool-type" : "Integer",
```


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```
    "domain-id" : "Integer",
    "description" : "String",
    "name" : "String",
    "domain-name" : "String",
    "uri" : "String",
    "created-by-user-name" : "String",
    "id" : "Integer",
    "link" : "String",
    "hash-key" : "String"
   } ],
   "uri" : "String",
   "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<nat-pools>
  <nat-pool>
    <pool-address>
      <domain-name>String</domain-name>
      <domain-id>Integer</domain-id>
      <id>String</id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <uri>String</uri>
    </pool-address>
    <pool-type>Integer</pool-type>
    <domain-id>Integer</domain-id>
    <description>String</description>
    <name>String</name>
    <domain-name>String</domain-name>
    <uri>String</uri>
    <created-by-user-name>String</created-by-user-name>
    <id>Integer</id>
    <link>String</link>
    <hash-key>String</hash-key>
  </nat-pool>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</nat-pools>
```


Modify NAT Pool

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This request is used to modify an existing NAT pool.

URI	/api/juniper/sd/nat-pool-management/nat-pools/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.nat-pool-management.nat-pool+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.nat-pool-management.nat-pool+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.nat-pool-management.nat-pool+xml;version=2;q=0.02 application/vnd.juniper.sd.nat-pool-management.nat-pool+json;version=2;q=0.02
Access-Control	modifyNATPool

Sample JSON Input


```
{
  "nat-pool" : {
    "version" : "Integer",
    "disable-port-translation" : "Boolean",
    "address-shared" : "Boolean",
    "port-range" : "String",
    "edit-version" : "Integer",
    "port-overloading-factor" : "Integer",
    "device" : {
      "id" : "Integer",
      "name" : "String",
      "ip" : "String"
    },
    "hash-key" : "String",
    "address-pooling" : [ "NONE", "PAIRED", "NONPAIRED" ],
    "routing-instance-name" : "String",
    "overflow-pool-address" : {
      "id" : "Integer",
      "name" : "String"
    },
    "name" : "String",
    "id" : "Integer",
    "description" : "String",
    "over-flow-pool-type" : [ "NONE", "INTERFACE", "POOL" ],
    "pool-type" : "Integer",
    "host-address-base" : "String",
    "pool-address" : {
      "id" : "String",
      "name" : "String",
      "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
```


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"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE"]
}
}
}

Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<nat-pool>
  <version>Integer</version>
  <disable-port-translation>Boolean</disable-port-translation>
  <address-shared>Boolean</address-shared>
  <port-range>String</port-range>
  <edit-version>Integer</edit-version>
  <port-overloading-factor>Integer</port-overloading-factor>
  <device>
    <id>Integer</id>
    <name>String</name>
    <ip>String</ip>
  </device>
  <hash-key>String</hash-key>
  <address-pooling>NONE</address-pooling>
  <address-pooling>PAIRED</address-pooling>
  <address-pooling>NONPAIRED</address-pooling>
  <routing-instance-name>String</routing-instance-name>
  <overflow-pool-address>
    <id>Integer</id>
    <name>String</name>
  </overflow-pool-address>
  <name>String</name>
  <id>Integer</id>
  <description>String</description>
  <over-flow-pool-type>NONE</over-flow-pool-type>
  <over-flow-pool-type>INTERFACE</over-flow-pool-type>
  <over-flow-pool-type>POOL</over-flow-pool-type>
  <pool-type>Integer</pool-type>
  <host-address-base>String</host-address-base>
  <pool-address>
    <id>String</id>
    <name>String</name>
    <address-type>IPADDRESS</address-type>
    <address-type>DELETED_1</address-type>
    <address-type>GROUP</address-type>
    <address-type>RANGE</address-type>
    <address-type>NETWORK</address-type>
    <address-type>INTERNET</address-type>
    <address-type>WILDCARD</address-type>
    <address-type>DNS</address-type>
    <address-type>POLYMORPHIC</address-type>
    <address-type>ANY</address-type>
    <address-type>ANY_IPV4</address-type>
    <address-type>ANY_IPV6</address-type>
    <address-type>ALL_IPV6</address-type>
    <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
    <address-type>Z_TYPE_IMPORT</address-type>
    <address-type>IPS_TYPE_IMPORT</address-type>
    <address-type>FEED_TYPE</address-type>
  </pool-address>
</nat-pool>
```


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Sample JSON Output:


```
{
  "nat-pool" : {
    "created-by-user-name" : "String",
    "version" : "Integer",
    "disable-port-translation" : "Boolean",
    "address-shared" : "Boolean",
    "last-modified-by-user-name" : "String",
    "port-range" : "String",
    "domain-name" : "String",
    "global" : "String",
    "edit-version" : "Integer",
    "port-overloading-factor" : "Integer",
    "uri" : "String",
    "device" : {
      "id" : "Integer",
      "domain-id" : "Integer",
      "name" : "String",
      "domain-name" : "String",
      "ip" : "String",
      "uri" : "String",
      "link" : "String"
    },
    "hash-key" : "String",
    "domain-id" : "Integer",
    "address-pooling" : [ "NONE", "PAIRED", "NONPAIRED" ],
    "routing-instance-name" : "String",
    "overflow-pool-address" : {
      "id" : "Integer",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "uri" : "String",
      "link" : "String"
    },
    "name" : "String",
    "id" : "Integer",
    "description" : "String",
    "over-flow-pool-type" : [ "NONE", "INTERFACE", "POOL" ],
    "pool-type" : "Integer",
    "host-address-base" : "String",
    "pool-address" : {
      "id" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "name" : "String",
      "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
      "uri" : "String",
      "link" : "String"
    }
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<nat-pool>
  <created-by-user-name>String</created-by-user-name>
  <version>Integer</version>
  <disable-port-translation>Boolean</disable-port-translation>
  <address-shared>Boolean</address-shared>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <port-range>String</port-range>
  <domain-name>String</domain-name>
  <global>String</global>
  <edit-version>Integer</edit-version>
  <port-overloading-factor>Integer</port-overloading-factor>
  <uri>String</uri>
  <device>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <domain-name>String</domain-name>
    <ip>String</ip>
    <uri>String</uri>
    <link>String</link>
  </device>
  <hash-key>String</hash-key>
  <domain-id>Integer</domain-id>
  <address-pooling>NONE</address-pooling>
  <address-pooling>PAIRED</address-pooling>
  <address-pooling>NONPAIRED</address-pooling>
  <routing-instance-name>String</routing-instance-name>
  <overflow-pool-address>
    <id>Integer</id>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <uri>String</uri>
    <link>String</link>
  </overflow-pool-address>
  <name>String</name>
  <id>Integer</id>
  <description>String</description>
  <over-flow-pool-type>NONE</over-flow-pool-type>
  <over-flow-pool-type>INTERFACE</over-flow-pool-type>
  <over-flow-pool-type>POOL</over-flow-pool-type>
  <pool-type>Integer</pool-type>
  <host-address-base>String</host-address-base>
  <pool-address>
    <id>String</id>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <name>String</name>
    <address-type>IPADDRESS</address-type>
    <address-type>DELETED_1</address-type>
    <address-type>GROUP</address-type>
    <address-type>RANGE</address-type>
    <address-type>NETWORK</address-type>
    <address-type>INTERNET</address-type>
    <address-type>WILDCARD</address-type>
    <address-type>DNS</address-type>
    <address-type>POLYMORPHIC</address-type>
    <address-type>ANY</address-type>
    <address-type>ANY_IPV4</address-type>
    <address-type>ANY_IPV6</address-type>
    <address-type>ALL_IPV6</address-type>
```


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```
    <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
    <address-type>Z_TYPE_IMPORT</address-type>
    <address-type>IPS_TYPE_IMPORT</address-type>
    <address-type>FEED_TYPE</address-type>
    <uri>String</uri>
    <link>String</link>
  </pool-address>
</nat-pool>
```

Get NAT Pool By ID

This request is used to get the NAT port set by ID.

URI	/api/juniper/sd/nat-pool-management/nat-pools/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.nat-pool-management.nat-pool+xml;version=2;q=0.02 application/vnd.juniper.sd.nat-pool-management.nat-pool+json;version=2;q=0.02
Access-Control	manageNATPool

Sample JSON Output:

```
{
  "nat-pool" : {
    "created-by-user-name" : "String",
    "version" : "Integer",
    "disable-port-translation" : "Boolean",
    "address-shared" : "Boolean",
    "last-modified-by-user-name" : "String",
    "port-range" : "String",
    "domain-name" : "String",
    "global" : "String",
    "edit-version" : "Integer",
    "port-overloading-factor" : "Integer",
    "uri" : "String",
    "device" : {
      "id" : "Integer",
      "domain-id" : "Integer",
      "name" : "String",
      "domain-name" : "String",
      "ip" : "String",
```


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```
      "uri" : "String",
      "link" : "String"
    },
    "hash-key" : "String",
    "domain-id" : "Integer",
    "address-pooling" : [ "NONE", "PAIRED", "NONPAIRED" ],
    "routing-instance-name" : "String",
    "overflow-pool-address" : {
      "id" : "Integer",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "uri" : "String",
      "link" : "String"
    },
    "name" : "String",
    "id" : "Integer",
    "description" : "String",
    "over-flow-pool-type" : [ "NONE", "INTERFACE", "POOL" ],
    "pool-type" : "Integer",
    "host-address-base" : "String",
    "pool-address" : {
      "id" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "name" : "String",
      "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
      "uri" : "String",
      "link" : "String"
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<nat-pool>
  <created-by-user-name>String</created-by-user-name>
  <version>Integer</version>
  <disable-port-translation>Boolean</disable-port-translation>
  <address-shared>Boolean</address-shared>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <port-range>String</port-range>
  <domain-name>String</domain-name>
  <global>String</global>
  <edit-version>Integer</edit-version>
  <port-overloading-factor>Integer</port-overloading-factor>
  <uri>String</uri>
  <device>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <domain-name>String</domain-name>
    <ip>String</ip>
    <uri>String</uri>
    <link>String</link>
  </device>
  <hash-key>String</hash-key>
  <domain-id>Integer</domain-id>
  <address-pooling>NONE</address-pooling>
  <address-pooling>PAIRED</address-pooling>
  <address-pooling>NONPAIRED</address-pooling>
```


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```
<routing-instance-name>String</routing-instance-name>
<overflow-pool-address>
  <id>Integer</id>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <uri>String</uri>
  <link>String</link>
</overflow-pool-address>
<name>String</name>
<id>Integer</id>
<description>String</description>
<over-flow-pool-type>NONE</over-flow-pool-type>
<over-flow-pool-type>INTERFACE</over-flow-pool-type>
<over-flow-pool-type>POOL</over-flow-pool-type>
<pool-type>Integer</pool-type>
<host-address-base>String</host-address-base>
<pool-address>
  <id>String</id>
  <domain-id>Integer</domain-id>
  <domain-name>String</domain-name>
  <name>String</name>
  <address-type>IPADDRESS</address-type>
  <address-type>DELETED_1</address-type>
  <address-type>GROUP</address-type>
  <address-type>RANGE</address-type>
  <address-type>NETWORK</address-type>
  <address-type>INTERNET</address-type>
  <address-type>WILDCARD</address-type>
  <address-type>DNS</address-type>
  <address-type>POLYMORPHIC</address-type>
  <address-type>ANY</address-type>
  <address-type>ANY_IPV4</address-type>
  <address-type>ANY_IPV6</address-type>
  <address-type>ALL_IPV6</address-type>
  <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
  <address-type>Z_TYPE_IMPORT</address-type>
  <address-type>IPS_TYPE_IMPORT</address-type>
  <address-type>FEED_TYPE</address-type>
  <uri>String</uri>
  <link>String</link>
 </pool-address>
</nat-pool>
```


Delete NAT Pool

This request is used to delete a NAT pool.

URI	/api/juniper/sd/nat-pool-management/nat-pools/{id}
HTTP method	DELETE

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Content-Type	None
Accept-Type	None
Access-Control	deleteNATPool

Create NAT Pool

This request is used to create a NAT pool.

URI	/api/juniper/sd/nat-pool-management/nat-pools
HTTP method	POST
Content-Type	application/vnd.juniper.sd.nat-pool-management.nat-pool+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.nat-pool-management.nat-pool+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.nat-pool-management.nat-pool+xml;version=2;q=0.02 application/vnd.juniper.sd.nat-pool-management.nat-pool+json;version=2;q=0.02
Access-Control	createNATPool

Sample JSON Input

```
{
  "nat-pool" : {
    "version" : "Integer",
    "disable-port-translation" : "Boolean",
    "address-shared" : "Boolean",
    "port-range" : "String",
    "edit-version" : "Integer",
    "port-overloading-factor" : "Integer",
    "device" : {
      "id" : "Integer",
      "name" : "String",
      "ip" : "String"
    },
```


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```
    "hash-key" : "String",
    "address-pooling" : [ "NONE", "PAIRED", "NONPAIRED" ],
    "routing-instance-name" : "String",
    "overflow-pool-address" : {
      "id" : "Integer",
      "name" : "String"
    },
    "name" : "String",
    "id" : "Integer",
    "description" : "String",
    "over-flow-pool-type" : [ "NONE", "INTERFACE", "POOL" ],
    "pool-type" : "Integer",
    "host-address-base" : "String",
    "pool-address" : {
      "id" : "String",
      "name" : "String",
      "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ]
    }
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<nat-pool>
  <version>Integer</version>
  <disable-port-translation>Boolean</disable-port-translation>
  <address-shared>Boolean</address-shared>
  <port-range>String</port-range>
  <edit-version>Integer</edit-version>
  <port-overloading-factor>Integer</port-overloading-factor>
  <device>
    <id>Integer</id>
    <name>String</name>
    <ip>String</ip>
  </device>
  <hash-key>String</hash-key>
  <address-pooling>NONE</address-pooling>
  <address-pooling>PAIRED</address-pooling>
  <address-pooling>NONPAIRED</address-pooling>
  <routing-instance-name>String</routing-instance-name>
  <overflow-pool-address>
    <id>Integer</id>
    <name>String</name>
  </overflow-pool-address>
  <name>String</name>
  <id>Integer</id>
  <description>String</description>
  <over-flow-pool-type>NONE</over-flow-pool-type>
  <over-flow-pool-type>INTERFACE</over-flow-pool-type>
  <over-flow-pool-type>POOL</over-flow-pool-type>
  <pool-type>Integer</pool-type>
  <host-address-base>String</host-address-base>
  <pool-address>
    <id>String</id>
    <name>String</name>
    <address-type>IPADDRESS</address-type>
    <address-type>DELETED_1</address-type>
    <address-type>GROUP</address-type>
    <address-type>RANGE</address-type>
    <address-type>NETWORK</address-type>
    <address-type>INTERNET</address-type>
    <address-type>WILDCARD</address-type>
    <address-type>DNS</address-type>
```


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```
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
    </pool-address>
</nat-pool>
```

Sample JSON Output:


```
{
  "nat-pool" : {
    "created-by-user-name" : "String",
    "version" : "Integer",
    "disable-port-translation" : "Boolean",
    "address-shared" : "Boolean",
    "last-modified-by-user-name" : "String",
    "port-range" : "String",
    "domain-name" : "String",
    "global" : "String",
    "edit-version" : "Integer",
    "port-overloading-factor" : "Integer",
    "uri" : "String",
    "device" : {
      "id" : "Integer",
      "domain-id" : "Integer",
      "name" : "String",
      "domain-name" : "String",
      "ip" : "String",
      "uri" : "String",
      "link" : "String"
    },
    "hash-key" : "String",
    "domain-id" : "Integer",
    "address-pooling" : [ "NONE", "PAIRED", "NONPAIRED" ],
    "routing-instance-name" : "String",
    "overflow-pool-address" : {
      "id" : "Integer",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "uri" : "String",
      "link" : "String"
    },
    "name" : "String",
    "id" : "Integer",
    "description" : "String",
    "over-flow-pool-type" : [ "NONE", "INTERFACE", "POOL" ],
    "pool-type" : "Integer",
    "host-address-base" : "String",
    "pool-address" : {
      "id" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "name" : "String",
      "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
      "uri" : "String",
      "link" : "String"
    }
```


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```
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<nat-pool>
  <created-by-user-name>String</created-by-user-name>
  <version>Integer</version>
  <disable-port-translation>Boolean</disable-port-translation>
  <address-shared>Boolean</address-shared>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <port-range>String</port-range>
  <domain-name>String</domain-name>
  <global>String</global>
  <edit-version>Integer</edit-version>
  <port-overloading-factor>Integer</port-overloading-factor>
  <uri>String</uri>
  <device>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <domain-name>String</domain-name>
    <ip>String</ip>
    <uri>String</uri>
    <link>String</link>
  </device>
  <hash-key>String</hash-key>
  <domain-id>Integer</domain-id>
  <address-pooling>NONE</address-pooling>
  <address-pooling>PAIRED</address-pooling>
  <address-pooling>NONPAIRED</address-pooling>
  <routing-instance-name>String</routing-instance-name>
  <overflow-pool-address>
    <id>Integer</id>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <uri>String</uri>
    <link>String</link>
  </overflow-pool-address>
  <name>String</name>
  <id>Integer</id>
  <description>String</description>
  <over-flow-pool-type>NONE</over-flow-pool-type>
  <over-flow-pool-type>INTERFACE</over-flow-pool-type>
  <over-flow-pool-type>POOL</over-flow-pool-type>
  <pool-type>Integer</pool-type>
  <host-address-base>String</host-address-base>
  <pool-address>
    <id>String</id>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <name>String</name>
    <address-type>IPADDRESS</address-type>
    <address-type>DELETED_1</address-type>
    <address-type>GROUP</address-type>
    <address-type>RANGE</address-type>
```


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```
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <uri>String</uri>
      <link>String</link>
    </pool-address>
  </nat-pool>
```


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CHAPTER 30

NAT Port Set Management RESTful Web Services

The following opertions can be performed using Secuirty Director NAT Port Set Management RESTful Web Services

Get All NAT Port Sets

This request is used to list all the NAT port sets.

URI	/api/juniper/sd/portset-management/port-sets
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.portset-management.port-set-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.portset-management.port-set-refs+json;version=1;q=0.01
Access-Control	managePortSet

Sample JSON Output:


```
{
  "port-sets" : {
    "port-set" : [ {
      "edit-version" : "Integer",
      "created-by-user-name" : "String",
      "hash-key" : "String",
      "last-modified-by-user-name" : "String",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "id" : "Integer",
      "name" : "String",
      "description" : "String",
      "ports" : "String",
      "uri" : "String",
```


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```
      "link" : "String",
      "global" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<port-sets>
  <port-set>
    <edit-version>Integer</edit-version>
    <created-by-user-name>String</created-by-user-name>
    <hash-key>String</hash-key>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <id>Integer</id>
    <name>String</name>
    <description>String</description>
    <ports>String</ports>
    <uri>String</uri>
    <link>String</link>
    <global>String</global>
  </port-set>
  <uri>String</uri>
  <totalSize>int</totalSize>
</port-sets>
```


Get NAT Port Set By ID

This request is used to get the NAT port set by ID.

URI	/api/juniper/sd/portset-management/port-sets/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.portset-management.port-set+xml;version=1;q=0.01 application/vnd.juniper.sd.portset-management.port-set+json;version=1;q=0.01
Access-Control	managePortSet

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Sample JSON Output:


```
{
  "port-set" : {
    "created-by-user-name" : "String",
    "domain-name" : "String",
    "edit-version" : "Integer",
    "last-modified-by-user-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "description" : "String",
    "ports" : "String",
    "uri" : "String",
    "link" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<port-set>
   <created-by-user-name>String</created-by-user-name>
   <domain-name>String</domain-name>
   <edit-version>Integer</edit-version>
   <last-modified-by-user-name>String</last-modified-by-user-name>
   <domain-id>Integer</domain-id>
   <id>Integer</id>
   <name>String</name>
   <description>String</description>
   <ports>String</ports>
   <uri>String</uri>
   <link>String</link>
</port-set>
```


Create NAT Port Set

This request is used to create a new NAT port set.

URI	/api/juniper/sd/portset-management/port-sets
HTTP method	POST
Content-Type	application/vnd.juniper.sd.portset-management.port-set+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.portset-management.port-set+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.portset-management.port-set+xml;version=1;q=0.01 application/vnd.juniper.sd.portset-management.port-set+json;version=1;q=0.01

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Access-Control createPortSet

Sample JSON Input

```
{
  "port-set" : {
    "edit-version" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "description" : "String",
    "ports" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<port-set>
   <edit-version>Integer</edit-version>
   <id>Integer</id>
   <name>String</name>
   <description>String</description>
   <ports>String</ports>
</port-set>
```

Sample JSON Output:

```
{
  "port-set" : {
    "created-by-user-name" : "String",
    "domain-name" : "String",
    "edit-version" : "Integer",
    "last-modified-by-user-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "description" : "String",
    "ports" : "String",
    "uri" : "String",
    "link" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<port-set>
   <created-by-user-name>String</created-by-user-name>
   <domain-name>String</domain-name>
   <edit-version>Integer</edit-version>
   <last-modified-by-user-name>String</last-modified-by-user-name>
   <domain-id>Integer</domain-id>
   <id>Integer</id>
   <name>String</name>
   <description>String</description>
   <ports>String</ports>
   <uri>String</uri>
   <link>String</link>
</port-set>
```

Modify NAT Port Set

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This request is used to modify an existing NAT port set.

URI	/api/juniper/sd/portset-management/port-sets/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.portset-management.port-set+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.portset-management.port-set+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.portset-management.port-set+xml;version=1;q=0.01 application/vnd.juniper.sd.portset-management.port-set+json;version=1;q=0.01
Access-Control	modifyPortSet

Sample JSON Input

```
{
  "port-set" : {
    "edit-version" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "description" : "String",
    "ports" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<port-set>
   <edit-version>Integer</edit-version>
   <id>Integer</id>
   <name>String</name>
   <description>String</description>
   <ports>String</ports>
</port-set>
```

Sample JSON Output:

```
{
  "port-set" : {
    "created-by-user-name" : "String",
    "domain-name" : "String",
    "edit-version" : "Integer",
    "last-modified-by-user-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "name" : "String",
    "description" : "String",
    "ports" : "String",
    "uri" : "String",
    "link" : "String"
```


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```
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<port-set>
  <created-by-user-name>String</created-by-user-name>
  <domain-name>String</domain-name>
  <edit-version>Integer</edit-version>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <name>String</name>
  <description>String</description>
  <ports>String</ports>
  <uri>String</uri>
  <link>String</link>
</port-set>
```

Delete Port Set

This request is used to delete a port set.

URI	/api/juniper/sd/portset-management/port-sets/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deletePortSet

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CHAPTER 31

Packet Capture RESTful Web Services

The following opertions can be performed using Secuirty Director Packet Capture RESTful Web Services

Retrieve PCAPS

Retrieve the Packets from Packet Capture Service and Sends back to UI

URI	/api/juniper/ecm/packet-capture/retrieve
HTTP method	GET
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	null

Sample JSON Output:


```
{
  "packets" : {
    "packet" : [ {
      "attackName" : "String",
      "packetId" : "Long",
      "systemTimeStamp" : "Long",
      "attackTimeStamp" : "Long",
      "deviceIp" : "String",
      "deviceId" : "Long",
      "domainId" : "Long"
    } ],
    "uri" : "String",
    "totalSize" : "Long",
    "attackName" : "String",
    "attackTimeStamp" : "Long",
    "systemTimeStamp" : "Long"
  }
```


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}

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<packets>
  <packet>
    <attackName>String</attackName>
    <packetId>Long</packetId>
    <systemTimeStamp>Long</systemTimeStamp>
    <attackTimeStamp>Long</attackTimeStamp>
    <deviceIp>String</deviceIp>
    <deviceId>Long</deviceId>
    <domainId>Long</domainId>
  </packet>
  <uri>String</uri>
  <totalSize>Long</totalSize>
  <attackName>String</attackName>
  <attackTimeStamp>Long</attackTimeStamp>
  <systemTimeStamp>Long</systemTimeStamp>
</packets>
```

Get Purge Policy

Get the purge policy from packet capture server

URI	/api/juniper/ecm/packet-capture/get-purge-policy
HTTP method	GET
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	null

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Sample JSON Output: { }

Sample XML Output: <?xml version="1.0" encoding="UTF-8"?>

Get PCAP

get Packet from Packet Capture Service and Sends back to UI

URI	/api/juniper/ecm/packet-capture/get-pcap-file?packetId=long&attackTimeStamp=long&attackName=String
HTTP method	GET
Content-Type	None
Accept-Type	application/octet-stream
Access-Control	null

Sample JSON Output: { }

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Sample XML Output: <?xml version="1.0" encoding="UTF-8"?>

Download PCAP

Download the given Packet from Packet Capture Service and Sends back to UI

URI	/api/juniper/ecm/packet-capture/download-pcap?fileName=String
HTTP method	GET
Content-Type	None
Accept-Type	application/octet-stream
Access-Control	null

Sample JSON Output: {}

Sample XML Output: <?xml version="1.0" encoding="UTF-8"?>

Modify Purge Policy

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modify the purge policy in the packet capture server

URI	/api/juniper/ecm/packet-capture/modify-purge-policy
HTTP method	PUT
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	null

Sample JSON Input

```
{
  "request" : {
    "timeLimit" : "int",
    "storageLimit" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<request>
   <timeLimit>int</timeLimit>
   <storageLimit>int</storageLimit>
</request>
```

Sample JSON Output:

```
{ }
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```


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CHAPTER 32

Policy Profile Management RESTful Web Services

The following opertions can be performed using Secuirty Director Policy Profile Management RESTful Web Services

Get All Policy Profiles

This request is used to collect all the policy profiles.

URI	/api/juniper/sd/fwpolicy-management/policy-profiles
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.fwpolicy-management.policy-profiles+xml;version=1;q=0.01 application/vnd.juniper.sd.fwpolicy-management.policy-profiles+json;version=1;q=0.01
Access-Control	managePolicyProfiles

Sample JSON Output:


```
{
  "policy-profiles" : {
    "policy-profile" : [ {
      "global" : "String",
      "id" : "Integer",
      "name" : "String",
      "description" : "String",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "created-by-user-name" : "String",
      "last-modified-by-user-name" : "String",
      "last-modified-time" : "Date",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "uri" : "String",
```


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```
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "int"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<policy-profiles>
  <policy-profile>
    <global>String</global>
    <id>Integer</id>
    <name>String</name>
    <description>String</description>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <uri>String</uri>
    <link>String</link>
  </policy-profile>
  <uri>String</uri>
  <totalSize>int</totalSize>
</policy-profiles>
```

Modify Policy Profile

This request is used to modify a policy profile.

URI	/api/juniper/sd/fwpolicy-management/policy-profiles/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.fwpolicy-management.policy-profile+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.fwpolicy-management.policy-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.fwpolicy-management.policy-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.fwpolicy-management.policy-profile+json;version=1;q=0.01

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Sample JSON Input

```
{
  "policy-profile" : {
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id" : "Integer",
    "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
    "service-offload" : "Boolean",
    "no-service-offload" : "Boolean",
    "sd-template-moid" : "String",
    "name" : "String",
    "description" : "String",
    "enable-count" : "Boolean",
    "per-minute-alarm-threshold" : "Long",
    "per-second-alarm-threshold" : "Long",
    "log-at-session-close" : "Boolean",
    "log-at-session-init-time" : "Boolean",
    "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
    "web-auth-client-name" : "String",
    "domain" : "String",
    "access-profile" : "String",
    "pass-thru-auth-client-name" : "String",
    "web-redirect" : "Boolean",
    "web-redirect-to-https" : "Boolean",
    "auth-only-browser" : "Boolean",
    "auth-user-agent" : "String",
    "push-to-jims" : "Boolean",
    "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION", "WEB_AUTHENTICATION",
"USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
    "redirect-url" : "String",
    "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
    "sd-template" : {
      "id" : "Integer",
      "name" : "String",
      "moid" : "String"
    },
    "tcp-syn-check" : "Boolean",
    "tcp-seq-check" : "Boolean",
    "window-scale-check" : "Boolean",
    "initial-tcp-mss" : "Integer",
    "reverse-tcp-mss" : "Integer"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<policy-profile>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <id>Integer</id>
  <destination-address-translation>NONE</destination-address-translation>
  <destination-address-translation>DROP_TRANSLATED</destination-address-translation>
  <destination-address-translation>DROP_UNTRANSLATED</destination-address-translation>
  <service-offload>Boolean</service-offload>
  <no-service-offload>Boolean</no-service-offload>
  <sd-template-moid>String</sd-template-moid>
```


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```
  <name>String</name>
  <description>String</description>
  <enable-count>Boolean</enable-count>
  <per-minute-alarm-threshold>Long</per-minute-alarm-threshold>
  <per-second-alarm-threshold>Long</per-second-alarm-threshold>
  <log-at-session-close>Boolean</log-at-session-close>
  <log-at-session-init-time>Boolean</log-at-session-init-time>
  <redirect>NONE</redirect>
  <redirect>REDIRECT_WX</redirect>
  <redirect>REVERSE_REDIRECT_WX</redirect>
  <web-auth-client-name>String</web-auth-client-name>
  <domain>String</domain>
  <access-profile>String</access-profile>
  <pass-thru-auth-client-name>String</pass-thru-auth-client-name>
  <web-redirect>Boolean</web-redirect>
  <web-redirect-to-https>Boolean</web-redirect-to-https>
  <auth-only-browser>Boolean</auth-only-browser>
  <auth-user-agent>String</auth-user-agent>
  <push-to-jims>Boolean</push-to-jims>
  <authentication-type>NONE</authentication-type>
  <authentication-type>PASSTHROUGH_AUTHENTICATION</authentication-type>
  <authentication-type>WEB_AUTHENTICATION</authentication-type>
  <authentication-type>USER_FIREWALL</authentication-type>
  <authentication-type>INFRANET_AUTHENTICATION</authentication-type>
  <redirect-url>String</redirect-url>
  <infranet-redirect>NONE</infranet-redirect>
  <infranet-redirect>REDIRECT_ALL</infranet-redirect>
  <infranet-redirect>REDIRECT_UNAUTHENTICATED</infranet-redirect>
  <sd-template>
    <id>Integer</id>
    <name>String</name>
    <moid>String</moid>
  </sd-template>
  <tcp-syn-check>Boolean</tcp-syn-check>
  <tcp-seq-check>Boolean</tcp-seq-check>
  <window-scale-check>Boolean</window-scale-check>
  <initial-tcp-mss>Integer</initial-tcp-mss>
  <reverse-tcp-mss>Integer</reverse-tcp-mss>
</policy-profile>
```

Sample JSON Output:

```
{
 "policy-profile" : {
  "edit-version" : "Integer",
  "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "created-by-user-name" : "String",
  "last-modified-by-user-name" : "String",
  "domain-name" : "String",
  "domain-id" : "Integer",
  "id" : "Integer",
  "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
  "service-offload" : "Boolean",
  "no-service-offload" : "Boolean",
  "sd-template-moid" : "String",
  "name" : "String",
  "description" : "String",
  "enable-count" : "Boolean",
  "per-minute-alarm-threshold" : "Long",
  "per-second-alarm-threshold" : "Long",
  "log-at-session-close" : "Boolean",
  "log-at-session-init-time" : "Boolean",
  "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
  "web-auth-client-name" : "String",
  "domain" : "String",
```


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```
    "access-profile" : "String",
    "pass-thru-auth-client-name" : "String",
    "web-redirect" : "Boolean",
    "web-redirect-to-https" : "Boolean",
    "auth-only-browser" : "Boolean",
    "auth-user-agent" : "String",
    "push-to-jims" : "Boolean",
    "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION", "WEB_AUTHENTICATION",
"USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
    "redirect-url" : "String",
    "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
    "sd-template" : {
      "id" : "Integer",
      "name" : "String",
      "uri" : "String",
      "moid" : "String",
      "domain-id" : "Integer"
    },
    "tcp-syn-check" : "Boolean",
    "tcp-seq-check" : "Boolean",
    "window-scale-check" : "Boolean",
    "initial-tcp-mss" : "Integer",
    "reverse-tcp-mss" : "Integer",
    "uri" : "String",
    "link" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<policy-profile>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <destination-address-translation>NONE</destination-address-translation>
  <destination-address-translation>DROP_TRANSLATED</destination-address-translation>
  <destination-address-translation>DROP_UNTRANSLATED</destination-address-translation>
  <service-offload>Boolean</service-offload>
  <no-service-offload>Boolean</no-service-offload>
  <sd-template-moid>String</sd-template-moid>
  <name>String</name>
  <description>String</description>
  <enable-count>Boolean</enable-count>
  <per-minute-alarm-threshold>Long</per-minute-alarm-threshold>
  <per-second-alarm-threshold>Long</per-second-alarm-threshold>
  <log-at-session-close>Boolean</log-at-session-close>
  <log-at-session-init-time>Boolean</log-at-session-init-time>
  <redirect>NONE</redirect>
  <redirect>REDIRECT_WX</redirect>
  <redirect>REVERSE_REDIRECT_WX</redirect>
  <web-auth-client-name>String</web-auth-client-name>
  <domain>String</domain>
  <access-profile>String</access-profile>
  <pass-thru-auth-client-name>String</pass-thru-auth-client-name>
  <web-redirect>Boolean</web-redirect>
  <web-redirect-to-https>Boolean</web-redirect-to-https>
```


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```
<auth-only-browser>Boolean</auth-only-browser>
<auth-user-agent>String</auth-user-agent>
<push-to-jims>Boolean</push-to-jims>
<authentication-type>NONE</authentication-type>
<authentication-type>PASSTHROUGH_AUTHENTICATION</authentication-type>
<authentication-type>WEB_AUTHENTICATION</authentication-type>
<authentication-type>USER_FIREWALL</authentication-type>
<authentication-type>INFRANET_AUTHENTICATION</authentication-type>
<redirect-url>String</redirect-url>
<infranet-redirect>NONE</infranet-redirect>
<infranet-redirect>REDIRECT_ALL</infranet-redirect>
<infranet-redirect>REDIRECT_UNAUTHENTICATED</infranet-redirect>
<sd-template>
  <id>Integer</id>
  <name>String</name>
  <uri>String</uri>
  <moid>String</moid>
  <domain-id>Integer</domain-id>
</sd-template>
<tcp-syn-check>Boolean</tcp-syn-check>
<tcp-seq-check>Boolean</tcp-seq-check>
<window-scale-check>Boolean</window-scale-check>
<initial-tcp-mss>Integer</initial-tcp-mss>
<reverse-tcp-mss>Integer</reverse-tcp-mss>
<uri>String</uri>
<link>String</link>
</policy-profile>
```

Get Policy Profile by ID

This API is used to get the policy profile used in the rule with a profile ID. Link for the user defined profile is available only in the rule. For Custom Profile, details are shown in the rule itself. The rule-profile tag is used for the policy profile.

URI	/api/juniper/sd/fwpolicy-management/policy-profiles/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.fwpolicy-management.policy-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.fwpolicy-management.policy-profile+json;version=1;q=0.01
Access-Control	managePolicyProfiles

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Sample JSON Output:


```
{
  "policy-profile" : {
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
    "service-offload" : "Boolean",
    "no-service-offload" : "Boolean",
    "sd-template-moid" : "String",
    "name" : "String",
    "description" : "String",
    "enable-count" : "Boolean",
    "per-minute-alarm-threshold" : "Long",
    "per-second-alarm-threshold" : "Long",
    "log-at-session-close" : "Boolean",
    "log-at-session-init-time" : "Boolean",
    "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
    "web-auth-client-name" : "String",
    "domain" : "String",
    "access-profile" : "String",
    "pass-thru-auth-client-name" : "String",
    "web-redirect" : "Boolean",
    "web-redirect-to-https" : "Boolean",
    "auth-only-browser" : "Boolean",
    "auth-user-agent" : "String",
    "push-to-jims" : "Boolean",
    "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION", "WEB_AUTHENTICATION",
"USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
    "redirect-url" : "String",
    "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
    "sd-template" : {
      "id" : "Integer",
      "name" : "String",
      "uri" : "String",
      "moid" : "String",
      "domain-id" : "Integer"
    },
    "tcp-syn-check" : "Boolean",
    "tcp-seq-check" : "Boolean",
    "window-scale-check" : "Boolean",
    "initial-tcp-mss" : "Integer",
    "reverse-tcp-mss" : "Integer",
    "uri" : "String",
    "link" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<policy-profile>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-name>String</domain-name>
```


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```
<domain-id>Integer</domain-id>
<id>Integer</id>
<destination-address-translation>NONE</destination-address-translation>
<destination-address-translation>DROP_TRANSLATED</destination-address-translation>
<destination-address-translation>DROP_UNTRANSLATED</destination-address-translation>
<service-offload>Boolean</service-offload>
<no-service-offload>Boolean</no-service-offload>
<sd-template-moid>String</sd-template-moid>
<name>String</name>
<description>String</description>
<enable-count>Boolean</enable-count>
<per-minute-alarm-threshold>Long</per-minute-alarm-threshold>
<per-second-alarm-threshold>Long</per-second-alarm-threshold>
<log-at-session-close>Boolean</log-at-session-close>
<log-at-session-init-time>Boolean</log-at-session-init-time>
<redirect>NONE</redirect>
<redirect>REDIRECT_WX</redirect>
<redirect>REVERSE_REDIRECT_WX</redirect>
<web-auth-client-name>String</web-auth-client-name>
<domain>String</domain>
<access-profile>String</access-profile>
<pass-thru-auth-client-name>String</pass-thru-auth-client-name>
<web-redirect>Boolean</web-redirect>
<web-redirect-to-https>Boolean</web-redirect-to-https>
<auth-only-browser>Boolean</auth-only-browser>
<auth-user-agent>String</auth-user-agent>
<push-to-jims>Boolean</push-to-jims>
<authentication-type>NONE</authentication-type>
<authentication-type>PASSTHROUGH_AUTHENTICATION</authentication-type>
<authentication-type>WEB_AUTHENTICATION</authentication-type>
<authentication-type>USER_FIREWALL</authentication-type>
<authentication-type>INFRANET_AUTHENTICATION</authentication-type>
<redirect-url>String</redirect-url>
<infranet-redirect>NONE</infranet-redirect>
<infranet-redirect>REDIRECT_ALL</infranet-redirect>
<infranet-redirect>REDIRECT_UNAUTHENTICATED</infranet-redirect>
<sd-template>
  <id>Integer</id>
  <name>String</name>
  <uri>String</uri>
  <moid>String</moid>
  <domain-id>Integer</domain-id>
</sd-template>
<tcp-syn-check>Boolean</tcp-syn-check>
<tcp-seq-check>Boolean</tcp-seq-check>
<window-scale-check>Boolean</window-scale-check>
<initial-tcp-mss>Integer</initial-tcp-mss>
<reverse-tcp-mss>Integer</reverse-tcp-mss>
<uri>String</uri>
<link>String</link>
</policy-profile>
```

Delete Policy Profile

This request is used to delete a policy profile.

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URI	/api/juniper/sd/fwpolicy-management/policy-profiles/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	DeletePolicyProfile

Create Policy Profile

This request is used to create a new policy profile.

URI	/api/juniper/sd/fwpolicy-management/policy-profiles
HTTP method	POST
Content-Type	application/vnd.juniper.sd.fwpolicy-management.policy-profile+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.fwpolicy-management.policy-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.fwpolicy-management.policy-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.fwpolicy-management.policy-profile+json;version=1;q=0.01
Access-Control	policyProfileCreation

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Sample JSON Input


```
{
  "policy-profile" : {
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id" : "Integer",
    "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
    "service-offload" : "Boolean",
    "no-service-offload" : "Boolean",
    "sd-template-moid" : "String",
    "name" : "String",
    "description" : "String",
    "enable-count" : "Boolean",
    "per-minute-alarm-threshold" : "Long",
    "per-second-alarm-threshold" : "Long",
    "log-at-session-close" : "Boolean",
    "log-at-session-init-time" : "Boolean",
    "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
    "web-auth-client-name" : "String",
    "domain" : "String",
    "access-profile" : "String",
    "pass-thru-auth-client-name" : "String",
    "web-redirect" : "Boolean",
    "web-redirect-to-https" : "Boolean",
    "auth-only-browser" : "Boolean",
    "auth-user-agent" : "String",
    "push-to-jims" : "Boolean",
    "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION", "WEB_AUTHENTICATION",
"USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
    "redirect-url" : "String",
    "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
    "sd-template" : {
      "id" : "Integer",
      "name" : "String",
      "moid" : "String"
    },
    "tcp-syn-check" : "Boolean",
    "tcp-seq-check" : "Boolean",
    "window-scale-check" : "Boolean",
    "initial-tcp-mss" : "Integer",
    "reverse-tcp-mss" : "Integer"
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<policy-profile>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <id>Integer</id>
  <destination-address-translation>NONE</destination-address-translation>
  <destination-address-translation>DROP_TRANSLATED</destination-address-translation>
  <destination-address-translation>DROP_UNTRANSLATED</destination-address-translation>
  <service-offload>Boolean</service-offload>
  <no-service-offload>Boolean</no-service-offload>
  <sd-template-moid>String</sd-template-moid>
  <name>String</name>
  <description>String</description>
  <enable-count>Boolean</enable-count>
  <per-minute-alarm-threshold>Long</per-minute-alarm-threshold>
  <per-second-alarm-threshold>Long</per-second-alarm-threshold>
```


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```
  <log-at-session-close>Boolean</log-at-session-close>
  <log-at-session-init-time>Boolean</log-at-session-init-time>
  <redirect>NONE</redirect>
  <redirect>REDIRECT_WX</redirect>
  <redirect>REVERSE_REDIRECT_WX</redirect>
  <web-auth-client-name>String</web-auth-client-name>
  <domain>String</domain>
  <access-profile>String</access-profile>
  <pass-thru-auth-client-name>String</pass-thru-auth-client-name>
  <web-redirect>Boolean</web-redirect>
  <web-redirect-to-https>Boolean</web-redirect-to-https>
  <auth-only-browser>Boolean</auth-only-browser>
  <auth-user-agent>String</auth-user-agent>
  <push-to-jims>Boolean</push-to-jims>
  <authentication-type>NONE</authentication-type>
  <authentication-type>PASSTHROUGH_AUTHENTICATION</authentication-type>
  <authentication-type>WEB_AUTHENTICATION</authentication-type>
  <authentication-type>USER_FIREWALL</authentication-type>
  <authentication-type>INFRANET_AUTHENTICATION</authentication-type>
  <redirect-url>String</redirect-url>
  <infranet-redirect>NONE</infranet-redirect>
  <infranet-redirect>REDIRECT_ALL</infranet-redirect>
  <infranet-redirect>REDIRECT_UNAUTHENTICATED</infranet-redirect>
  <sd-template>
    <id>Integer</id>
    <name>String</name>
    <moid>String</moid>
  </sd-template>
  <tcp-syn-check>Boolean</tcp-syn-check>
  <tcp-seq-check>Boolean</tcp-seq-check>
  <window-scale-check>Boolean</window-scale-check>
  <initial-tcp-mss>Integer</initial-tcp-mss>
  <reverse-tcp-mss>Integer</reverse-tcp-mss>
</policy-profile>
```

Sample JSON Output:

```
{
  "policy-profile" : {
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "destination-address-translation" : [ "NONE", "DROP_TRANSLATED", "DROP_UNTRANSLATED" ],
    "service-offload" : "Boolean",
    "no-service-offload" : "Boolean",
    "sd-template-moid" : "String",
    "name" : "String",
    "description" : "String",
    "enable-count" : "Boolean",
    "per-minute-alarm-threshold" : "Long",
    "per-second-alarm-threshold" : "Long",
    "log-at-session-close" : "Boolean",
    "log-at-session-init-time" : "Boolean",
    "redirect" : [ "NONE", "REDIRECT_WX", "REVERSE_REDIRECT_WX" ],
    "web-auth-client-name" : "String",
    "domain" : "String",
    "access-profile" : "String",
    "pass-thru-auth-client-name" : "String",
    "web-redirect" : "Boolean",
    "web-redirect-to-https" : "Boolean",
    "auth-only-browser" : "Boolean",
    "auth-user-agent" : "String",
```


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```
    "push-to-jims" : "Boolean",
    "authentication-type" : [ "NONE", "PASSTHROUGH_AUTHENTICATION", "WEB_AUTHENTICATION",
"USER_FIREWALL", "INFRANET_AUTHENTICATION" ],
    "redirect-url" : "String",
    "infranet-redirect" : [ "NONE", "REDIRECT_ALL", "REDIRECT_UNAUTHENTICATED" ],
    "sd-template" : {
      "id" : "Integer",
      "name" : "String",
      "uri" : "String",
      "moid" : "String",
      "domain-id" : "Integer"
    },
    "tcp-syn-check" : "Boolean",
    "tcp-seq-check" : "Boolean",
    "window-scale-check" : "Boolean",
    "initial-tcp-mss" : "Integer",
    "reverse-tcp-mss" : "Integer",
    "uri" : "String",
    "link" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<policy-profile>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <destination-address-translation>NONE</destination-address-translation>
  <destination-address-translation>DROP_TRANSLATED</destination-address-translation>
  <destination-address-translation>DROP_UNTRANSLATED</destination-address-translation>
  <service-offload>Boolean</service-offload>
  <no-service-offload>Boolean</no-service-offload>
  <sd-template-moid>String</sd-template-moid>
  <name>String</name>
  <description>String</description>
  <enable-count>Boolean</enable-count>
  <per-minute-alarm-threshold>Long</per-minute-alarm-threshold>
  <per-second-alarm-threshold>Long</per-second-alarm-threshold>
  <log-at-session-close>Boolean</log-at-session-close>
  <log-at-session-init-time>Boolean</log-at-session-init-time>
  <redirect>NONE</redirect>
  <redirect>REDIRECT_WX</redirect>
  <redirect>REVERSE_REDIRECT_WX</redirect>
  <web-auth-client-name>String</web-auth-client-name>
  <domain>String</domain>
  <access-profile>String</access-profile>
  <pass-thru-auth-client-name>String</pass-thru-auth-client-name>
  <web-redirect>Boolean</web-redirect>
  <web-redirect-to-https>Boolean</web-redirect-to-https>
  <auth-only-browser>Boolean</auth-only-browser>
  <auth-user-agent>String</auth-user-agent>
  <push-to-jims>Boolean</push-to-jims>
  <authentication-type>NONE</authentication-type>
  <authentication-type>PASSTHROUGH_AUTHENTICATION</authentication-type>
  <authentication-type>WEB_AUTHENTICATION</authentication-type>
```


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```
  <authentication-type>USER_FIREWALL</authentication-type>
  <authentication-type>INFRANET_AUTHENTICATION</authentication-type>
  <redirect-url>String</redirect-url>
  <infranet-redirect>NONE</infranet-redirect>
  <infranet-redirect>REDIRECT_ALL</infranet-redirect>
  <infranet-redirect>REDIRECT_UNAUTHENTICATED</infranet-redirect>
  <sd-template>
    <id>Integer</id>
    <name>String</name>
    <uri>String</uri>
    <moid>String</moid>
    <domain-id>Integer</domain-id>
  </sd-template>
  <tcp-syn-check>Boolean</tcp-syn-check>
  <tcp-seq-check>Boolean</tcp-seq-check>
  <window-scale-check>Boolean</window-scale-check>
  <initial-tcp-mss>Integer</initial-tcp-mss>
  <reverse-tcp-mss>Integer</reverse-tcp-mss>
  <uri>String</uri>
  <link>String</link>
</policy-profile>
```


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CHAPTER 33

SSL Forward Proxy Profile Management RESTful Web Services

The following opertions can be performed using Secuirty Director SSL Forward Proxy Profile Management RESTful Web Services

Modify SSL Forward Proxy Profile

This request is used to modify the SSL forward proxy profile.

URI	/api/juniper/sd/sslpp/ssl-forward-proxy-profiles/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.ssl-forward-proxy-profile-management.ssl-forward-proxy-profile+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.ssl-forward-proxy-profile-management.ssl-forward-proxy-profile+json;version=2;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.ssl-forward-proxy-profile-management.ssl-forward-proxy-profile+xml;version=2;q=0.02 application/vnd.juniper.sd.ssl-forward-proxy-profile-management.ssl-forward-proxy-profile+json;version=2;q=0.02
Access-Control	modifySSLForwardProxyProfile

Sample JSON Input

```
{
  "ssl-forward-proxy-profile" : {
    "all-log" : "Boolean",
    "preferred-cipher" : "String",
    "session-ignored-log" : "Boolean",
    "predefined" : "Boolean",
    "edit-version" : "Integer",
    "warning-log" : "Boolean",
    "description" : "String",
    "name" : "String",
    "custom-ciphers" : {
      "custom-cipher" : [ "String" ]
```


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```
    },
    "exempted-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer"
      } ]
    },
    "whitelist-url-categories" : {
      "url-category-ref" : [ { } ]
    },
    "sessions-allowed-log" : "Boolean",
    "is-flow-tracing" : "Boolean",
    "root-certificates" : {
      "ssl-forward-proxy-certificate" : [ {
        "trusted-cas" : {
          "trusted-ca" : [ "String" ],
          "totalSize" : "Integer"
        },
        "security-device-id" : "Integer",
        "root-certificate" : [ "String" ],
        "security-device-name" : "String"
      } ]
    },
    "server-certificates" : {
      "ssl-reverse-proxy-certificate" : [ {
        "serverCerts" : {
          "serverCert" : [ "String" ],
          "totalSize" : "Integer"
        },
        "security-device-ref" : { }
      } ]
    },
    "disable-session-resumption" : "Boolean",
    "version" : "Integer",
    "sessions-white-listed-log" : "Boolean",
    "ignore-server-auth-failure" : "Boolean",
    "id" : "Integer",
    "sessions-dropped-log" : "Boolean",
    "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
    "error-log" : "Boolean",
    "info-log" : "Boolean"
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-forward-proxy-profile>
  <all-log>Boolean</all-log>
  <preferred-cipher>String</preferred-cipher>
  <session-ignored-log>Boolean</session-ignored-log>
  <predefined>Boolean</predefined>
  <edit-version>Integer</edit-version>
  <warning-log>Boolean</warning-log>
  <description>String</description>
  <name>String</name>
  <custom-ciphers>
    <custom-cipher>String</custom-cipher>
  </custom-ciphers>
  <exempted-addresses>
    <address-reference>
      <id>Integer</id>
```


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```
        <name>String</name>
        <address-type>IPADDRESS</address-type>
        <address-type>DELETED_1</address-type>
        <address-type>GROUP</address-type>
        <address-type>RANGE</address-type>
        <address-type>NETWORK</address-type>
        <address-type>INTERNET</address-type>
        <address-type>WILDCARD</address-type>
        <address-type>DNS</address-type>
        <address-type>POLYMORPHIC</address-type>
        <address-type>ANY</address-type>
        <address-type>ANY_IPV4</address-type>
        <address-type>ANY_IPV6</address-type>
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
        <variable-id>Integer</variable-id>
      </address-reference>
    </exempted-addresses>
    <whitelist-url-categories>
      <url-category-ref/>
    </whitelist-url-categories>
    <sessions-allowed-log>Boolean</sessions-allowed-log>
    <is-flow-tracing>Boolean</is-flow-tracing>
    <root-certificates>
      <ssl-forward-proxy-certificate>
        <trusted-cas>
          <trusted-ca>String</trusted-ca>
          <totalSize>Integer</totalSize>
        </trusted-cas>
        <security-device-id>Integer</security-device-id>
        <root-certificate>String</root-certificate>
        <security-device-name>String</security-device-name>
      </ssl-forward-proxy-certificate>
    </root-certificates>
    <server-certificates>
      <ssl-reverse-proxy-certificate>
        <serverCerts>
          <serverCert>String</serverCert>
          <totalSize>Integer</totalSize>
        </serverCerts>
        <security-device-ref/>
      </ssl-reverse-proxy-certificate>
    </server-certificates>
    <disable-session-resumption>Boolean</disable-session-resumption>
    <version>Integer</version>
    <sessions-white-listed-log>Boolean</sessions-white-listed-log>
    <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
    <id>Integer</id>
    <sessions-dropped-log>Boolean</sessions-dropped-log>
    <renegotiation>ALLOW</renegotiation>
    <renegotiation>ALLOW_SECURE</renegotiation>
    <renegotiation>DROP</renegotiation>
    <renegotiation>NONE</renegotiation>
    <error-log>Boolean</error-log>
    <info-log>Boolean</info-log>
  </ssl-forward-proxy-profile>
```


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Sample JSON Output:


```
{
  "ssl-forward-proxy-profile" : {
    "created-by-user-name" : "String",
    "all-log" : "Boolean",
    "preferred-cipher" : "String",
    "session-ignored-log" : "Boolean",
    "domain-id" : "Integer",
    "predefined" : "Boolean",
    "edit-version" : "Integer",
    "warning-log" : "Boolean",
    "description" : "String",
    "domain-name" : "String",
    "name" : "String",
    "last-modified-by-user-name" : "String",
    "custom-ciphers" : {
      "custom-cipher" : [ "String" ],
      "uri" : "String"
    },
    "exempted-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "whitelist-url-categories" : {
      "url-category-ref" : [ { } ],
      "uri" : "String"
    },
    "sessions-allowed-log" : "Boolean",
    "is-flow-tracing" : "Boolean",
    "root-certificates" : {
      "ssl-forward-proxy-certificate" : [ {
        "trusted-cas" : {
          "trusted-ca" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "security-device-id" : "Integer",
        "root-certificate" : [ "String" ],
        "security-device-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "server-certificates" : {
      "ssl-reverse-proxy-certificate" : [ {
        "serverCerts" : {
          "serverCert" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "security-device-ref" : { },
        "uri" : "String"
      } ],
      "uri" : "String"
```


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```
    },
    "disable-session-resumption" : "Boolean",
    "version" : "Integer",
    "sessions-white-listed-log" : "Boolean",
    "ignore-server-auth-failure" : "Boolean",
    "id" : "Integer",
    "sessions-dropped-log" : "Boolean",
    "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
    "error-log" : "Boolean",
    "info-log" : "Boolean",
    "uri" : "String",
    "link" : "String",
    "owning-system" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-forward-proxy-profile>
  <created-by-user-name>String</created-by-user-name>
  <all-log>Boolean</all-log>
  <preferred-cipher>String</preferred-cipher>
  <session-ignored-log>Boolean</session-ignored-log>
  <domain-id>Integer</domain-id>
  <predefined>Boolean</predefined>
  <edit-version>Integer</edit-version>
  <warning-log>Boolean</warning-log>
  <description>String</description>
  <domain-name>String</domain-name>
  <name>String</name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <custom-ciphers>
    <custom-cipher>String</custom-cipher>
    <uri>String</uri>
  </custom-ciphers>
  <exempted-addresses>
    <address-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <variable-id>Integer</variable-id>
      <uri>String</uri>
    </address-reference>
    <uri>String</uri>
  </exempted-addresses>
  <whitelist-url-categories>
```


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```
    <url-category-ref/>
    <uri>String</uri>
  </whitelist-url-categories>
  <sessions-allowed-log>Boolean</sessions-allowed-log>
  <is-flow-tracing>Boolean</is-flow-tracing>
  <root-certificates>
    <ssl-forward-proxy-certificate>
      <trusted-cas>
        <trusted-ca>String</trusted-ca>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </trusted-cas>
      <security-device-id>Integer</security-device-id>
      <root-certificate>String</root-certificate>
      <security-device-name>String</security-device-name>
      <uri>String</uri>
    </ssl-forward-proxy-certificate>
    <uri>String</uri>
  </root-certificates>
  <server-certificates>
    <ssl-reverse-proxy-certificate>
      <serverCerts>
        <serverCert>String</serverCert>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </serverCerts>
      <security-device-ref/>
      <uri>String</uri>
    </ssl-reverse-proxy-certificate>
    <uri>String</uri>
  </server-certificates>
  <disable-session-resumption>Boolean</disable-session-resumption>
  <version>Integer</version>
  <sessions-white-listed-log>Boolean</sessions-white-listed-log>
  <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
  <id>Integer</id>
  <sessions-dropped-log>Boolean</sessions-dropped-log>
  <renegotiation>ALLOW</renegotiation>
  <renegotiation>ALLOW_SECURE</renegotiation>
  <renegotiation>DROP</renegotiation>
  <renegotiation>NONE</renegotiation>
  <error-log>Boolean</error-log>
  <info-log>Boolean</info-log>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
</ssl-forward-proxy-profile>
```

Get SSL Forward Proxy Profile by ID

This request is used to list the SSL forward proxy profile information by ID.

URI	/api/juniper/sd/sslpp/ssl-forward-proxy-profiles/{id}
HTTP method	GET

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Content-Type	None
Accept-Type	application/vnd.juniper.sd.ssl-forward-proxy-profile-management.ssl-forward-proxy-profile+xml;version=2;q=0.02 application/vnd.juniper.sd.ssl-forward-proxy-profile-management.ssl-forward-proxy-profile+json;version=2;q=0.02
Access-Control	manageSSLForwardProxyProfile

Sample JSON Output:


```
{
  "ssl-forward-proxy-profile" : {
    "created-by-user-name" : "String",
    "all-log" : "Boolean",
    "preferred-cipher" : "String",
    "session-ignored-log" : "Boolean",
    "domain-id" : "Integer",
    "predefined" : "Boolean",
    "edit-version" : "Integer",
    "warning-log" : "Boolean",
    "description" : "String",
    "domain-name" : "String",
    "name" : "String",
    "last-modified-by-user-name" : "String",
    "custom-ciphers" : {
      "custom-cipher" : [ "String" ],
      "uri" : "String"
    },
    "exempted-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "whitelist-url-categories" : {
      "url-category-ref" : [ { } ],
      "uri" : "String"
    },
    "sessions-allowed-log" : "Boolean",
    "is-flow-tracing" : "Boolean",
    "root-certificates" : {
      "ssl-forward-proxy-certificate" : [ {
        "trusted-cas" : {
          "trusted-ca" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "security-device-id" : "Integer",
        "root-certificate" : [ "String" ],
```


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```
      "security-device-name" : "String",
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "server-certificates" : {
    "ssl-reverse-proxy-certificate" : [ {
      "serverCerts" : {
        "serverCert" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "security-device-ref" : { },
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "disable-session-resumption" : "Boolean",
  "version" : "Integer",
  "sessions-white-listed-log" : "Boolean",
  "ignore-server-auth-failure" : "Boolean",
  "id" : "Integer",
  "sessions-dropped-log" : "Boolean",
  "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
  "error-log" : "Boolean",
  "info-log" : "Boolean",
  "uri" : "String",
  "link" : "String",
  "owning-system" : "String"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-forward-proxy-profile>
  <created-by-user-name>String</created-by-user-name>
  <all-log>Boolean</all-log>
  <preferred-cipher>String</preferred-cipher>
  <session-ignored-log>Boolean</session-ignored-log>
  <domain-id>Integer</domain-id>
  <predefined>Boolean</predefined>
  <edit-version>Integer</edit-version>
  <warning-log>Boolean</warning-log>
  <description>String</description>
  <domain-name>String</domain-name>
  <name>String</name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <custom-ciphers>
    <custom-cipher>String</custom-cipher>
    <uri>String</uri>
  </custom-ciphers>
  <exempted-addresses>
    <address-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
```


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```
        <address-type>DNS</address-type>
        <address-type>POLYMORPHIC</address-type>
        <address-type>ANY</address-type>
        <address-type>ANY_IPV4</address-type>
        <address-type>ANY_IPV6</address-type>
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
        <variable-id>Integer</variable-id>
        <uri>String</uri>
      </address-reference>
      <uri>String</uri>
    </exempted-addresses>
    <whitelist-url-categories>
      <url-category-ref/>
      <uri>String</uri>
    </whitelist-url-categories>
    <sessions-allowed-log>Boolean</sessions-allowed-log>
    <is-flow-tracing>Boolean</is-flow-tracing>
    <root-certificates>
      <ssl-forward-proxy-certificate>
        <trusted-cas>
          <trusted-ca>String</trusted-ca>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </trusted-cas>
        <security-device-id>Integer</security-device-id>
        <root-certificate>String</root-certificate>
        <security-device-name>String</security-device-name>
        <uri>String</uri>
      </ssl-forward-proxy-certificate>
      <uri>String</uri>
    </root-certificates>
    <server-certificates>
      <ssl-reverse-proxy-certificate>
        <serverCerts>
          <serverCert>String</serverCert>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </serverCerts>
        <security-device-ref/>
        <uri>String</uri>
      </ssl-reverse-proxy-certificate>
      <uri>String</uri>
    </server-certificates>
    <disable-session-resumption>Boolean</disable-session-resumption>
    <version>Integer</version>
    <sessions-white-listed-log>Boolean</sessions-white-listed-log>
    <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
    <id>Integer</id>
    <sessions-dropped-log>Boolean</sessions-dropped-log>
    <renegotiation>ALLOW</renegotiation>
    <renegotiation>ALLOW_SECURE</renegotiation>
    <renegotiation>DROP</renegotiation>
    <renegotiation>NONE</renegotiation>
    <error-log>Boolean</error-log>
    <info-log>Boolean</info-log>
    <uri>String</uri>
    <link>String</link>
    <owning-system>String</owning-system>
  </ssl-forward-proxy-profile>
```


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Get All SSL Forward Proxy Profiles

This request is used to collect all the SSL forward proxy profile objects configured in Security Director.

URI	/api/juniper/sd/sslpp/ssl-forward-proxy-profiles
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.ssl-forward-proxy-profile-management.ssl-forward-proxy-profiles+xml;version=2;q=0.02 application/vnd.juniper.sd.ssl-forward-proxy-profile-management.ssl-forward-proxy-profiles+json;version=2;q=0.02
Access-Control	manageSSLForwardProxyProfile

Sample JSON Output:


```
{
  "ssl-forward-proxy-profiles" : {
    "ssl-forward-proxy-profile" : [ {
      "preferred-cipher" : "String",
      "custom-ciphers" : {
        "custom-cipher" : [ "String" ],
        "uri" : "String"
      },
      "server-certificates" : {
        "ssl-reverse-proxy-certificate" : [ {
          "serverCerts" : {
            "serverCert" : [ "String" ],
            "uri" : "String",
            "totalSize" : "Integer"
          },
          "security-device-ref" : { },
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "root-certificates" : {
        "ssl-forward-proxy-certificate" : [ {
          "trusted-cas" : {
            "trusted-ca" : [ "String" ],
            "uri" : "String",
            "totalSize" : "Integer"
          },
          "security-device-id" : "Integer",
          "root-certificate" : [ "String" ],
```


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```
        "security-device-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "all-log" : "Boolean",
    "is-flow-tracing" : "Boolean",
    "disable-session-resumption" : "Boolean",
    "sessions-white-listed-log" : "Boolean",
    "ignore-server-auth-failure" : "Boolean",
    "id" : "Integer",
    "sessions-dropped-log" : "Boolean",
    "session-ignored-log" : "Boolean",
    "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
    "error-log" : "Boolean",
    "warning-log" : "Boolean",
    "description" : "String",
    "name" : "String",
    "sessions-allowed-log" : "Boolean",
    "info-log" : "Boolean",
    "exempted-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String",
    "link" : "String",
    "owning-system" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-forward-proxy-profiles>
  <ssl-forward-proxy-profile>
    <preferred-cipher>String</preferred-cipher>
    <custom-ciphers>
      <custom-cipher>String</custom-cipher>
      <uri>String</uri>
    </custom-ciphers>
    <server-certificates>
      <ssl-reverse-proxy-certificate>
        <serverCerts>
          <serverCert>String</serverCert>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </serverCerts>
        <security-device-ref/>
        <uri>String</uri>
      </ssl-reverse-proxy-certificate>
```


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```
    <uri>String</uri>
  </server-certificates>
  <root-certificates>
    <ssl-forward-proxy-certificate>
      <trusted-cas>
        <trusted-ca>String</trusted-ca>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </trusted-cas>
      <security-device-id>Integer</security-device-id>
      <root-certificate>String</root-certificate>
      <security-device-name>String</security-device-name>
      <uri>String</uri>
    </ssl-forward-proxy-certificate>
    <uri>String</uri>
  </root-certificates>
  <all-log>Boolean</all-log>
  <is-flow-tracing>Boolean</is-flow-tracing>
  <disable-session-resumption>Boolean</disable-session-resumption>
  <sessions-white-listed-log>Boolean</sessions-white-listed-log>
  <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
  <id>Integer</id>
  <sessions-dropped-log>Boolean</sessions-dropped-log>
  <session-ignored-log>Boolean</session-ignored-log>
  <renegotiation>ALLOW</renegotiation>
  <renegotiation>ALLOW_SECURE</renegotiation>
  <renegotiation>DROP</renegotiation>
  <renegotiation>NONE</renegotiation>
  <error-log>Boolean</error-log>
  <warning-log>Boolean</warning-log>
  <description>String</description>
  <name>String</name>
  <sessions-allowed-log>Boolean</sessions-allowed-log>
  <info-log>Boolean</info-log>
  <exempted-addresses>
    <address-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <variable-id>Integer</variable-id>
      <uri>String</uri>
    </address-reference>
    <uri>String</uri>
  </exempted-addresses>
  <domain-id>Integer</domain-id>
  <domain-name>String</domain-name>
  <uri>String</uri>
```


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```
    <link>String</link>
    <owning-system>String</owning-system>
  </ssl-forward-proxy-profile>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</ssl-forward-proxy-profiles>
```

Delete SSL Forward Proxy Profile

This request is used to delete the SSL forward proxy profiles by ID.

URI	/api/juniper/sd/sslpp/ssl-forward-proxy-profiles/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteSSLForwardProxyProfile

Create SSL Forward Proxy Profile

This request is used to create a new SSL forward proxy profile.

URI	/api/juniper/sd/sslpp/ssl-forward-proxy-profiles
HTTP method	POST
Content-Type	application/vnd.juniper.sd.ssl-forward-proxy-profile-management.ssl-forward-proxy-profile+xml;version=2;charset=UTF-8 application/vnd.juniper.sd.ssl-forward-proxy-profile-management.ssl-forward-proxy-profile+json;version=2;charset=UTF-8

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Accept-Type	application/vnd.juniper.sd.ssl-forward-proxy-profile-management.ssl-forward-proxy-profile+xml;version=2;q=0.02 application/vnd.juniper.sd.ssl-forward-proxy-profile-management.ssl-forward-proxy-profile+json;version=2;q=0.02
Access-Control	createSSLForwardProxyProfile

Sample JSON Input


```
{
  "ssl-forward-proxy-profile" : {
    "all-log" : "Boolean",
    "preferred-cipher" : "String",
    "session-ignored-log" : "Boolean",
    "predefined" : "Boolean",
    "edit-version" : "Integer",
    "warning-log" : "Boolean",
    "description" : "String",
    "name" : "String",
    "custom-ciphers" : {
      "custom-cipher" : [ "String" ]
    },
    "exempted-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer"
      } ]
    },
    "whitelist-url-categories" : {
      "url-category-ref" : [ { } ]
    },
    "sessions-allowed-log" : "Boolean",
    "is-flow-tracing" : "Boolean",
    "root-certificates" : {
      "ssl-forward-proxy-certificate" : [ {
        "trusted-cas" : {
          "trusted-ca" : [ "String" ],
          "totalSize" : "Integer"
        },
        "security-device-id" : "Integer",
        "root-certificate" : [ "String" ],
        "security-device-name" : "String"
      } ]
    },
    "server-certificates" : {
      "ssl-reverse-proxy-certificate" : [ {
        "serverCerts" : {
          "serverCert" : [ "String" ],
          "totalSize" : "Integer"
        },
        "security-device-ref" : { }
      } ]
    },
    "disable-session-resumption" : "Boolean",
    "version" : "Integer",
```


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```
    "sessions-white-listed-log" : "Boolean",
    "ignore-server-auth-failure" : "Boolean",
    "id" : "Integer",
    "sessions-dropped-log" : "Boolean",
    "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
    "error-log" : "Boolean",
    "info-log" : "Boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-forward-proxy-profile>
  <all-log>Boolean</all-log>
  <preferred-cipher>String</preferred-cipher>
  <session-ignored-log>Boolean</session-ignored-log>
  <predefined>Boolean</predefined>
  <edit-version>Integer</edit-version>
  <warning-log>Boolean</warning-log>
  <description>String</description>
  <name>String</name>
  <custom-ciphers>
    <custom-cipher>String</custom-cipher>
  </custom-ciphers>
  <exempted-addresses>
    <address-reference>
      <id>Integer</id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <variable-id>Integer</variable-id>
    </address-reference>
  </exempted-addresses>
  <whitelist-url-categories>
    <url-category-ref/>
  </whitelist-url-categories>
  <sessions-allowed-log>Boolean</sessions-allowed-log>
  <is-flow-tracing>Boolean</is-flow-tracing>
  <root-certificates>
    <ssl-forward-proxy-certificate>
      <trusted-cas>
        <trusted-ca>String</trusted-ca>
        <totalSize>Integer</totalSize>
      </trusted-cas>
      <security-device-id>Integer</security-device-id>
      <root-certificate>String</root-certificate>
      <security-device-name>String</security-device-name>
    </ssl-forward-proxy-certificate>
  </root-certificates>
```


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```
  <server-certificates>
    <ssl-reverse-proxy-certificate>
      <serverCerts>
        <serverCert>String</serverCert>
        <totalSize>Integer</totalSize>
      </serverCerts>
      <security-device-ref/>
    </ssl-reverse-proxy-certificate>
  </server-certificates>
  <disable-session-resumption>Boolean</disable-session-resumption>
  <version>Integer</version>
  <sessions-white-listed-log>Boolean</sessions-white-listed-log>
  <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
  <id>Integer</id>
  <sessions-dropped-log>Boolean</sessions-dropped-log>
  <renegotiation>ALLOW</renegotiation>
  <renegotiation>ALLOW_SECURE</renegotiation>
  <renegotiation>DROP</renegotiation>
  <renegotiation>NONE</renegotiation>
  <error-log>Boolean</error-log>
  <info-log>Boolean</info-log>
</ssl-forward-proxy-profile>
```

Sample JSON Output:

```
{
 "ssl-forward-proxy-profile" : {
   "created-by-user-name" : "String",
   "all-log" : "Boolean",
   "preferred-cipher" : "String",
   "session-ignored-log" : "Boolean",
   "domain-id" : "Integer",
   "predefined" : "Boolean",
   "edit-version" : "Integer",
   "warning-log" : "Boolean",
   "description" : "String",
   "domain-name" : "String",
   "name" : "String",
   "last-modified-by-user-name" : "String",
   "custom-ciphers" : {
     "custom-cipher" : [ "String" ],
     "uri" : "String"
   },
   "exempted-addresses" : {
     "address-reference" : [ {
       "id" : "Integer",
       "domain-id" : "Integer",
       "name" : "String",
       "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
       "variable-id" : "Integer",
       "uri" : "String"
     } ],
     "uri" : "String"
   },
   "whitelist-url-categories" : {
     "url-category-ref" : [ { } ],
     "uri" : "String"
   },
   "sessions-allowed-log" : "Boolean",
   "is-flow-tracing" : "Boolean",
   "root-certificates" : {
     "ssl-forward-proxy-certificate" : [ {
       "trusted-cas" : {
         "trusted-ca" : [ "String" ],
```


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```
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "security-device-id" : "Integer",
      "root-certificate" : [ "String" ],
      "security-device-name" : "String",
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "server-certificates" : {
    "ssl-reverse-proxy-certificate" : [ {
      "serverCerts" : {
        "serverCert" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "security-device-ref" : { },
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "disable-session-resumption" : "Boolean",
  "version" : "Integer",
  "sessions-white-listed-log" : "Boolean",
  "ignore-server-auth-failure" : "Boolean",
  "id" : "Integer",
  "sessions-dropped-log" : "Boolean",
  "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
  "error-log" : "Boolean",
  "info-log" : "Boolean",
  "uri" : "String",
  "link" : "String",
  "owning-system" : "String"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-forward-proxy-profile>
  <created-by-user-name>String</created-by-user-name>
  <all-log>Boolean</all-log>
  <preferred-cipher>String</preferred-cipher>
  <session-ignored-log>Boolean</session-ignored-log>
  <domain-id>Integer</domain-id>
  <predefined>Boolean</predefined>
  <edit-version>Integer</edit-version>
  <warning-log>Boolean</warning-log>
  <description>String</description>
  <domain-name>String</domain-name>
  <name>String</name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <custom-ciphers>
    <custom-cipher>String</custom-cipher>
    <uri>String</uri>
  </custom-ciphers>
  <exempted-addresses>
    <address-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
```


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```
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <variable-id>Integer</variable-id>
      <uri>String</uri>
    </address-reference>
    <uri>String</uri>
  </exempted-addresses>
  <whitelist-url-categories>
    <url-category-ref/>
    <uri>String</uri>
  </whitelist-url-categories>
  <sessions-allowed-log>Boolean</sessions-allowed-log>
  <is-flow-tracing>Boolean</is-flow-tracing>
  <root-certificates>
    <ssl-forward-proxy-certificate>
      <trusted-cas>
        <trusted-ca>String</trusted-ca>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </trusted-cas>
      <security-device-id>Integer</security-device-id>
      <root-certificate>String</root-certificate>
      <security-device-name>String</security-device-name>
      <uri>String</uri>
    </ssl-forward-proxy-certificate>
    <uri>String</uri>
  </root-certificates>
  <server-certificates>
    <ssl-reverse-proxy-certificate>
      <serverCerts>
        <serverCert>String</serverCert>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </serverCerts>
      <security-device-ref/>
      <uri>String</uri>
    </ssl-reverse-proxy-certificate>
    <uri>String</uri>
  </server-certificates>
  <disable-session-resumption>Boolean</disable-session-resumption>
  <version>Integer</version>
  <sessions-white-listed-log>Boolean</sessions-white-listed-log>
  <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
  <id>Integer</id>
  <sessions-dropped-log>Boolean</sessions-dropped-log>
  <renegotiation>ALLOW</renegotiation>
  <renegotiation>ALLOW_SECURE</renegotiation>
  <renegotiation>DROP</renegotiation>
  <renegotiation>NONE</renegotiation>
  <error-log>Boolean</error-log>
  <info-log>Boolean</info-log>
```


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```
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
</ssl-forward-proxy-profile>
```

Update SSL Proxy Profile

Modifies an existing SSL Proxy Profile identified by its ID.

URI	/api/juniper/sd/ssl-proxy-profile-management/v3/ssl-proxy-profiles/{id}
HTTP method	PUT
Content-Type	application/xml;charset=UTF-8 application/json;charset=UTF-8
Accept-Type	application/xml application/json
Access-Control	modifySSLForwardProxyProfile

Sample JSON Input

```
{
  "ssl-proxy-profile" : {
    "all-log" : "Boolean",
    "preferred-cipher" : "String",
    "session-ignored-log" : "Boolean",
    "predefined" : "Boolean",
    "edit-version" : "Integer",
    "warning-log" : "Boolean",
    "description" : "String",
    "type" : [ "REVERSE", "FORWARD" ],
    "name" : "String",
    "custom-ciphers" : {
      "custom-cipher" : [ "String" ]
    },
    "exempted-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer"
```


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```
      } ]
    },
    "whitelist-url-categories" : {
      "url-category-ref" : [ { } ]
    },
    "sessions-allowed-log" : "Boolean",
    "is-flow-tracing" : "Boolean",
    "root-certificates" : {
      "ssl-forward-proxy-certificate" : [ {
        "trusted-cas" : {
          "trusted-ca" : [ "String" ],
          "totalSize" : "Integer"
        },
        "security-device-id" : "Integer",
        "root-certificate" : {
          "root-certificate" : [ "String" ],
          "totalSize" : "Integer"
        },
        "security-device-name" : "String"
      } ]
    },
    "server-certificates" : {
      "ssl-reverse-proxy-certificate" : [ {
        "serverCerts" : {
          "serverCert" : [ "String" ],
          "totalSize" : "Integer"
        },
        "security-device-ref" : { }
      } ]
    },
    "disable-session-resumption" : "Boolean",
    "version" : "Integer",
    "sessions-white-listed-log" : "Boolean",
    "ignore-server-auth-failure" : "Boolean",
    "id" : "Integer",
    "sessions-dropped-log" : "Boolean",
    "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
    "error-log" : "Boolean",
    "info-log" : "Boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-proxy-profile>
   <all-log>Boolean</all-log>
   <preferred-cipher>String</preferred-cipher>
   <session-ignored-log>Boolean</session-ignored-log>
   <predefined>Boolean</predefined>
   <edit-version>Integer</edit-version>
   <warning-log>Boolean</warning-log>
   <description>String</description>
   <type>REVERSE</type>
   <type>FORWARD</type>
   <name>String</name>
   <custom-ciphers>
      <custom-cipher>String</custom-cipher>
   </custom-ciphers>
   <exempted-addresses>
      <address-reference>
         <id>Integer</id>
         <name>String</name>
         <address-type>IPADDRESS</address-type>
         <address-type>DELETED_1</address-type>
         <address-type>GROUP</address-type>
```


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```
        <address-type>RANGE</address-type>
        <address-type>NETWORK</address-type>
        <address-type>INTERNET</address-type>
        <address-type>WILDCARD</address-type>
        <address-type>DNS</address-type>
        <address-type>POLYMORPHIC</address-type>
        <address-type>ANY</address-type>
        <address-type>ANY_IPV4</address-type>
        <address-type>ANY_IPV6</address-type>
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
        <variable-id>Integer</variable-id>
      </address-reference>
    </exempted-addresses>
    <whitelist-url-categories>
      <url-category-ref/>
    </whitelist-url-categories>
    <sessions-allowed-log>Boolean</sessions-allowed-log>
    <is-flow-tracing>Boolean</is-flow-tracing>
    <root-certificates>
      <ssl-forward-proxy-certificate>
        <trusted-cas>
          <trusted-ca>String</trusted-ca>
          <totalSize>Integer</totalSize>
        </trusted-cas>
        <security-device-id>Integer</security-device-id>
        <root-certificate>
          <root-certificate>String</root-certificate>
          <totalSize>Integer</totalSize>
        </root-certificate>
        <security-device-name>String</security-device-name>
      </ssl-forward-proxy-certificate>
    </root-certificates>
    <server-certificates>
      <ssl-reverse-proxy-certificate>
        <serverCerts>
          <serverCert>String</serverCert>
          <totalSize>Integer</totalSize>
        </serverCerts>
        <security-device-ref/>
      </ssl-reverse-proxy-certificate>
    </server-certificates>
    <disable-session-resumption>Boolean</disable-session-resumption>
    <version>Integer</version>
    <sessions-white-listed-log>Boolean</sessions-white-listed-log>
    <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
    <id>Integer</id>
    <sessions-dropped-log>Boolean</sessions-dropped-log>
    <renegotiation>ALLOW</renegotiation>
    <renegotiation>ALLOW_SECURE</renegotiation>
    <renegotiation>DROP</renegotiation>
    <renegotiation>NONE</renegotiation>
    <error-log>Boolean</error-log>
    <info-log>Boolean</info-log>
  </ssl-proxy-profile>
```


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Sample JSON Output:


```
{
  "ssl-proxy-profile" : {
    "created-by-user-name" : "String",
    "all-log" : "Boolean",
    "preferred-cipher" : "String",
    "session-ignored-log" : "Boolean",
    "domain-id" : "Integer",
    "predefined" : "Boolean",
    "edit-version" : "Integer",
    "warning-log" : "Boolean",
    "description" : "String",
    "type" : [ "REVERSE", "FORWARD" ],
    "name" : "String",
    "last-modified-by-user-name" : "String",
    "custom-ciphers" : {
      "custom-cipher" : [ "String" ],
      "uri" : "String"
    },
    "exempted-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "whitelist-url-categories" : {
      "url-category-ref" : [ { } ],
      "uri" : "String"
    },
    "sessions-allowed-log" : "Boolean",
    "is-flow-tracing" : "Boolean",
    "root-certificates" : {
      "ssl-forward-proxy-certificate" : [ {
        "trusted-cas" : {
          "trusted-ca" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "security-device-id" : "Integer",
        "root-certificate" : {
          "root-certificate" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "security-device-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "server-certificates" : {
      "ssl-reverse-proxy-certificate" : [ {
        "serverCerts" : {
          "serverCert" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
```


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```
      },
      "security-device-ref" : { },
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "disable-session-resumption" : "Boolean",
  "version" : "Integer",
  "sessions-white-listed-log" : "Boolean",
  "ignore-server-auth-failure" : "Boolean",
  "id" : "Integer",
  "sessions-dropped-log" : "Boolean",
  "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
  "error-log" : "Boolean",
  "info-log" : "Boolean",
  "uri" : "String",
  "link" : "String",
  "owning-system" : "String"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-proxy-profile>
  <created-by-user-name>String</created-by-user-name>
  <all-log>Boolean</all-log>
  <preferred-cipher>String</preferred-cipher>
  <session-ignored-log>Boolean</session-ignored-log>
  <domain-id>Integer</domain-id>
  <predefined>Boolean</predefined>
  <edit-version>Integer</edit-version>
  <warning-log>Boolean</warning-log>
  <description>String</description>
  <type>REVERSE</type>
  <type>FORWARD</type>
  <name>String</name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <custom-ciphers>
    <custom-cipher>String</custom-cipher>
    <uri>String</uri>
  </custom-ciphers>
  <exempted-addresses>
    <address-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
```


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```
      <address-type>FEED_TYPE</address-type>
      <variable-id>Integer</variable-id>
      <uri>String</uri>
    </address-reference>
    <uri>String</uri>
  </exempted-addresses>
  <whitelist-url-categories>
    <url-category-ref/>
    <uri>String</uri>
  </whitelist-url-categories>
  <sessions-allowed-log>Boolean</sessions-allowed-log>
  <is-flow-tracing>Boolean</is-flow-tracing>
  <root-certificates>
    <ssl-forward-proxy-certificate>
      <trusted-cas>
        <trusted-ca>String</trusted-ca>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </trusted-cas>
      <security-device-id>Integer</security-device-id>
      <root-certificate>
        <root-certificate>String</root-certificate>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </root-certificate>
      <security-device-name>String</security-device-name>
      <uri>String</uri>
    </ssl-forward-proxy-certificate>
    <uri>String</uri>
  </root-certificates>
  <server-certificates>
    <ssl-reverse-proxy-certificate>
      <serverCerts>
        <serverCert>String</serverCert>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </serverCerts>
      <security-device-ref/>
      <uri>String</uri>
    </ssl-reverse-proxy-certificate>
    <uri>String</uri>
  </server-certificates>
  <disable-session-resumption>Boolean</disable-session-resumption>
  <version>Integer</version>
  <sessions-white-listed-log>Boolean</sessions-white-listed-log>
  <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
  <id>Integer</id>
  <sessions-dropped-log>Boolean</sessions-dropped-log>
  <renegotiation>ALLOW</renegotiation>
  <renegotiation>ALLOW_SECURE</renegotiation>
  <renegotiation>DROP</renegotiation>
  <renegotiation>NONE</renegotiation>
  <error-log>Boolean</error-log>
  <info-log>Boolean</info-log>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
</ssl-proxy-profile>
```

Retrieve SSL Proxy Profile by ID

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Fetches the complete detailed configuration of a specific SSL Proxy Profile by its ID.

URI	/api/juniper/sd/ssl-proxy-profile-management/v3/ssl-proxy-profiles/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	manageSSLForwardProxyProfile

Sample JSON Output:


```
{
  "ssl-proxy-profile" : {
    "created-by-user-name" : "String",
    "all-log" : "Boolean",
    "preferred-cipher" : "String",
    "session-ignored-log" : "Boolean",
    "domain-id" : "Integer",
    "predefined" : "Boolean",
    "edit-version" : "Integer",
    "warning-log" : "Boolean",
    "description" : "String",
    "type" : [ "REVERSE", "FORWARD" ],
    "name" : "String",
    "last-modified-by-user-name" : "String",
    "custom-ciphers" : {
      "custom-cipher" : [ "String" ],
      "uri" : "String"
    },
    "exempted-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "whitelist-url-categories" : {
      "url-category-ref" : [ { } ],
      "uri" : "String"
    },
```


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```
    "sessions-allowed-log" : "Boolean",
    "is-flow-tracing" : "Boolean",
    "root-certificates" : {
      "ssl-forward-proxy-certificate" : [ {
        "trusted-cas" : {
          "trusted-ca" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "security-device-id" : "Integer",
        "root-certificate" : {
          "root-certificate" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "security-device-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "server-certificates" : {
      "ssl-reverse-proxy-certificate" : [ {
        "serverCerts" : {
          "serverCert" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "security-device-ref" : { },
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "disable-session-resumption" : "Boolean",
    "version" : "Integer",
    "sessions-white-listed-log" : "Boolean",
    "ignore-server-auth-failure" : "Boolean",
    "id" : "Integer",
    "sessions-dropped-log" : "Boolean",
    "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
    "error-log" : "Boolean",
    "info-log" : "Boolean",
    "uri" : "String",
    "link" : "String",
    "owning-system" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-proxy-profile>
  <created-by-user-name>String</created-by-user-name>
  <all-log>Boolean</all-log>
  <preferred-cipher>String</preferred-cipher>
  <session-ignored-log>Boolean</session-ignored-log>
  <domain-id>Integer</domain-id>
  <predefined>Boolean</predefined>
  <edit-version>Integer</edit-version>
  <warning-log>Boolean</warning-log>
  <description>String</description>
  <type>REVERSE</type>
  <type>FORWARD</type>
  <name>String</name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
```


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```
<custom-ciphers>
  <custom-cipher>String</custom-cipher>
  <uri>String</uri>
</custom-ciphers>
<exempted-addresses>
  <address-reference>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <domain-name>String</domain-name>
    <address-type>IPADDRESS</address-type>
    <address-type>DELETED_1</address-type>
    <address-type>GROUP</address-type>
    <address-type>RANGE</address-type>
    <address-type>NETWORK</address-type>
    <address-type>INTERNET</address-type>
    <address-type>WILDCARD</address-type>
    <address-type>DNS</address-type>
    <address-type>POLYMORPHIC</address-type>
    <address-type>ANY</address-type>
    <address-type>ANY_IPV4</address-type>
    <address-type>ANY_IPV6</address-type>
    <address-type>ALL_IPV6</address-type>
    <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
    <address-type>Z_TYPE_IMPORT</address-type>
    <address-type>IPS_TYPE_IMPORT</address-type>
    <address-type>FEED_TYPE</address-type>
    <variable-id>Integer</variable-id>
    <uri>String</uri>
  </address-reference>
  <uri>String</uri>
</exempted-addresses>
<whitelist-url-categories>
  <url-category-ref/>
  <uri>String</uri>
</whitelist-url-categories>
<sessions-allowed-log>Boolean</sessions-allowed-log>
<is-flow-tracing>Boolean</is-flow-tracing>
<root-certificates>
  <ssl-forward-proxy-certificate>
    <trusted-cas>
      <trusted-ca>String</trusted-ca>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </trusted-cas>
    <security-device-id>Integer</security-device-id>
    <root-certificate>
      <root-certificate>String</root-certificate>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </root-certificate>
    <security-device-name>String</security-device-name>
    <uri>String</uri>
  </ssl-forward-proxy-certificate>
  <uri>String</uri>
</root-certificates>
<server-certificates>
  <ssl-reverse-proxy-certificate>
    <serverCerts>
      <serverCert>String</serverCert>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </serverCerts>
    <security-device-ref/>
```


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```
      <uri>String</uri>
    </ssl-reverse-proxy-certificate>
    <uri>String</uri>
  </server-certificates>
  <disable-session-resumption>Boolean</disable-session-resumption>
  <version>Integer</version>
  <sessions-white-listed-log>Boolean</sessions-white-listed-log>
  <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
  <id>Integer</id>
  <sessions-dropped-log>Boolean</sessions-dropped-log>
  <renegotiation>ALLOW</renegotiation>
  <renegotiation>ALLOW_SECURE</renegotiation>
  <renegotiation>DROP</renegotiation>
  <renegotiation>NONE</renegotiation>
  <error-log>Boolean</error-log>
  <info-log>Boolean</info-log>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
</ssl-proxy-profile>
```

Retrieve All SSL Proxy Profiles (Paginated)

Fetches a paginated list of all configured SSL Proxy Profiles.

URI	/api/juniper/sd/ssl-proxy-profile-management/v3/ssl-proxy-profiles
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	manageSSLForwardProxyProfile

Sample JSON Output:

```
{
  "ssl-proxy-profiles" : {
    "ssl-proxy-profile" : [ {
      "type" : [ "REVERSE", "FORWARD" ],
      "preferred-cipher" : "String",
      "custom-ciphers" : {
        "custom-cipher" : [ "String" ],
        "uri" : "String"
      },
      "server-certificates" : {
        "ssl-reverse-proxy-certificate" : [ {
```


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```
          "serverCerts" : {
            "serverCert" : [ "String" ],
            "uri" : "String",
            "totalSize" : "Integer"
          },
          "security-device-ref" : { },
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "root-certificates" : {
        "ssl-forward-proxy-certificate" : [ {
          "trusted-cas" : {
            "trusted-ca" : [ "String" ],
            "uri" : "String",
            "totalSize" : "Integer"
          },
          "security-device-id" : "Integer",
          "root-certificate" : {
            "root-certificate" : [ "String" ],
            "uri" : "String",
            "totalSize" : "Integer"
          },
          "security-device-name" : "String",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "all-log" : "Boolean",
      "is-flow-tracing" : "Boolean",
      "disable-session-resumption" : "Boolean",
      "sessions-white-listed-log" : "Boolean",
      "ignore-server-auth-failure" : "Boolean",
      "id" : "Integer",
      "sessions-dropped-log" : "Boolean",
      "session-ignored-log" : "Boolean",
      "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
      "error-log" : "Boolean",
      "warning-log" : "Boolean",
      "description" : "String",
      "name" : "String",
      "sessions-allowed-log" : "Boolean",
      "info-log" : "Boolean",
      "exempted-addresses" : {
        "address-reference" : [ {
          "id" : "Integer",
          "domain-id" : "Integer",
          "name" : "String",
          "domain-name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "domain-id" : "Integer",
      "uri" : "String",
      "link" : "String",
      "owning-system" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
```


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```
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-proxy-profiles>
  <ssl-proxy-profile>
    <type>REVERSE</type>
    <type>FORWARD</type>
    <preferred-cipher>String</preferred-cipher>
    <custom-ciphers>
      <custom-cipher>String</custom-cipher>
      <uri>String</uri>
    </custom-ciphers>
    <server-certificates>
      <ssl-reverse-proxy-certificate>
        <serverCerts>
          <serverCert>String</serverCert>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </serverCerts>
        <security-device-ref/>
        <uri>String</uri>
      </ssl-reverse-proxy-certificate>
      <uri>String</uri>
    </server-certificates>
    <root-certificates>
      <ssl-forward-proxy-certificate>
        <trusted-cas>
          <trusted-ca>String</trusted-ca>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </trusted-cas>
        <security-device-id>Integer</security-device-id>
        <root-certificate>
          <root-certificate>String</root-certificate>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </root-certificate>
        <security-device-name>String</security-device-name>
        <uri>String</uri>
      </ssl-forward-proxy-certificate>
      <uri>String</uri>
    </root-certificates>
    <all-log>Boolean</all-log>
    <is-flow-tracing>Boolean</is-flow-tracing>
    <disable-session-resumption>Boolean</disable-session-resumption>
    <sessions-white-listed-log>Boolean</sessions-white-listed-log>
    <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
    <id>Integer</id>
    <sessions-dropped-log>Boolean</sessions-dropped-log>
    <session-ignored-log>Boolean</session-ignored-log>
    <renegotiation>ALLOW</renegotiation>
    <renegotiation>ALLOW_SECURE</renegotiation>
    <renegotiation>DROP</renegotiation>
    <renegotiation>NONE</renegotiation>
    <error-log>Boolean</error-log>
```


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```
<warning-log>Boolean</warning-log>
<description>String</description>
<name>String</name>
<sessions-allowed-log>Boolean</sessions-allowed-log>
<info-log>Boolean</info-log>
<exempted-addresses>
  <address-reference>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <domain-name>String</domain-name>
    <address-type>IPADDRESS</address-type>
    <address-type>DELETED_1</address-type>
    <address-type>GROUP</address-type>
    <address-type>RANGE</address-type>
    <address-type>NETWORK</address-type>
    <address-type>INTERNET</address-type>
    <address-type>WILDCARD</address-type>
    <address-type>DNS</address-type>
    <address-type>POLYMORPHIC</address-type>
    <address-type>ANY</address-type>
    <address-type>ANY_IPV4</address-type>
    <address-type>ANY_IPV6</address-type>
    <address-type>ALL_IPV6</address-type>
    <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
    <address-type>Z_TYPE_IMPORT</address-type>
    <address-type>IPS_TYPE_IMPORT</address-type>
    <address-type>FEED_TYPE</address-type>
    <variable-id>Integer</variable-id>
    <uri>String</uri>
  </address-reference>
  <uri>String</uri>
</exempted-addresses>
<domain-id>Integer</domain-id>
<uri>String</uri>
<link>String</link>
<owning-system>String</owning-system>
</ssl-proxy-profile>
<uri>String</uri>
<totalSize>Integer</totalSize>
</ssl-proxy-profiles>
```


Delete SSL Proxy Profile

Deletes a specific SSL Proxy Profile from the system by its ID.

URI	/api/juniper/sd/ssl-proxy-profile-management/v3/ssl-proxy-profiles/{id}
HTTP method	DELETE
Content-Type	None

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Accept-Type	None
Access-Control	deleteSSLForwardProxyProfile

Create SSL Proxy Profile

Creates a new SSL Proxy Profile configuration.

URI	/api/juniper/sd/ssl-proxy-profile-management/v3/ssl-proxy-profiles
HTTP method	POST
Content-Type	application/xml;charset=UTF-8 application/json;charset=UTF-8
Accept-Type	application/xml application/json
Access-Control	createSSLForwardProxyProfile

Sample JSON Input

```
{
  "ssl-proxy-profile" : {
    "all-log" : "Boolean",
    "preferred-cipher" : "String",
    "session-ignored-log" : "Boolean",
    "predefined" : "Boolean",
    "edit-version" : "Integer",
    "warning-log" : "Boolean",
    "description" : "String",
    "type" : [ "REVERSE", "FORWARD" ],
    "name" : "String",
    "custom-ciphers" : {
      "custom-cipher" : [ "String" ]
    },
    "exempted-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer"
```


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```
    } ]
  },
  "whitelist-url-categories" : {
    "url-category-ref" : [ { } ]
  },
  "sessions-allowed-log" : "Boolean",
  "is-flow-tracing" : "Boolean",
  "root-certificates" : {
    "ssl-forward-proxy-certificate" : [ {
      "trusted-cas" : {
        "trusted-ca" : [ "String" ],
        "totalSize" : "Integer"
      },
      "security-device-id" : "Integer",
      "root-certificate" : {
        "root-certificate" : [ "String" ],
        "totalSize" : "Integer"
      },
      "security-device-name" : "String"
    } ]
  },
  "server-certificates" : {
    "ssl-reverse-proxy-certificate" : [ {
      "serverCerts" : {
        "serverCert" : [ "String" ],
        "totalSize" : "Integer"
      },
      "security-device-ref" : { }
    } ]
  },
  "disable-session-resumption" : "Boolean",
  "version" : "Integer",
  "sessions-white-listed-log" : "Boolean",
  "ignore-server-auth-failure" : "Boolean",
  "id" : "Integer",
  "sessions-dropped-log" : "Boolean",
  "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
  "error-log" : "Boolean",
  "info-log" : "Boolean"
 }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-proxy-profile>
  <all-log>Boolean</all-log>
  <preferred-cipher>String</preferred-cipher>
  <session-ignored-log>Boolean</session-ignored-log>
  <predefined>Boolean</predefined>
  <edit-version>Integer</edit-version>
  <warning-log>Boolean</warning-log>
  <description>String</description>
  <type>REVERSE</type>
  <type>FORWARD</type>
  <name>String</name>
  <custom-ciphers>
    <custom-cipher>String</custom-cipher>
  </custom-ciphers>
  <exempted-addresses>
    <address-reference>
      <id>Integer</id>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
```


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```
        <address-type>RANGE</address-type>
        <address-type>NETWORK</address-type>
        <address-type>INTERNET</address-type>
        <address-type>WILDCARD</address-type>
        <address-type>DNS</address-type>
        <address-type>POLYMORPHIC</address-type>
        <address-type>ANY</address-type>
        <address-type>ANY_IPV4</address-type>
        <address-type>ANY_IPV6</address-type>
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
        <variable-id>Integer</variable-id>
      </address-reference>
    </exempted-addresses>
    <whitelist-url-categories>
      <url-category-ref/>
    </whitelist-url-categories>
    <sessions-allowed-log>Boolean</sessions-allowed-log>
    <is-flow-tracing>Boolean</is-flow-tracing>
    <root-certificates>
      <ssl-forward-proxy-certificate>
        <trusted-cas>
          <trusted-ca>String</trusted-ca>
          <totalSize>Integer</totalSize>
        </trusted-cas>
        <security-device-id>Integer</security-device-id>
        <root-certificate>
          <root-certificate>String</root-certificate>
          <totalSize>Integer</totalSize>
        </root-certificate>
        <security-device-name>String</security-device-name>
      </ssl-forward-proxy-certificate>
    </root-certificates>
    <server-certificates>
      <ssl-reverse-proxy-certificate>
        <serverCerts>
          <serverCert>String</serverCert>
          <totalSize>Integer</totalSize>
        </serverCerts>
        <security-device-ref/>
      </ssl-reverse-proxy-certificate>
    </server-certificates>
    <disable-session-resumption>Boolean</disable-session-resumption>
    <version>Integer</version>
    <sessions-white-listed-log>Boolean</sessions-white-listed-log>
    <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
    <id>Integer</id>
    <sessions-dropped-log>Boolean</sessions-dropped-log>
    <renegotiation>ALLOW</renegotiation>
    <renegotiation>ALLOW_SECURE</renegotiation>
    <renegotiation>DROP</renegotiation>
    <renegotiation>NONE</renegotiation>
    <error-log>Boolean</error-log>
    <info-log>Boolean</info-log>
  </ssl-proxy-profile>
```


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Sample JSON Output:


```
{
  "ssl-proxy-profile" : {
    "created-by-user-name" : "String",
    "all-log" : "Boolean",
    "preferred-cipher" : "String",
    "session-ignored-log" : "Boolean",
    "domain-id" : "Integer",
    "predefined" : "Boolean",
    "edit-version" : "Integer",
    "warning-log" : "Boolean",
    "description" : "String",
    "type" : [ "REVERSE", "FORWARD" ],
    "name" : "String",
    "last-modified-by-user-name" : "String",
    "custom-ciphers" : {
      "custom-cipher" : [ "String" ],
      "uri" : "String"
    },
    "exempted-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "whitelist-url-categories" : {
      "url-category-ref" : [ { } ],
      "uri" : "String"
    },
    "sessions-allowed-log" : "Boolean",
    "is-flow-tracing" : "Boolean",
    "root-certificates" : {
      "ssl-forward-proxy-certificate" : [ {
        "trusted-cas" : {
          "trusted-ca" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "security-device-id" : "Integer",
        "root-certificate" : {
          "root-certificate" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "security-device-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "server-certificates" : {
      "ssl-reverse-proxy-certificate" : [ {
        "serverCerts" : {
          "serverCert" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
```


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```
      },
      "security-device-ref" : { },
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "disable-session-resumption" : "Boolean",
  "version" : "Integer",
  "sessions-white-listed-log" : "Boolean",
  "ignore-server-auth-failure" : "Boolean",
  "id" : "Integer",
  "sessions-dropped-log" : "Boolean",
  "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
  "error-log" : "Boolean",
  "info-log" : "Boolean",
  "uri" : "String",
  "link" : "String",
  "owning-system" : "String"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-proxy-profile>
  <created-by-user-name>String</created-by-user-name>
  <all-log>Boolean</all-log>
  <preferred-cipher>String</preferred-cipher>
  <session-ignored-log>Boolean</session-ignored-log>
  <domain-id>Integer</domain-id>
  <predefined>Boolean</predefined>
  <edit-version>Integer</edit-version>
  <warning-log>Boolean</warning-log>
  <description>String</description>
  <type>REVERSE</type>
  <type>FORWARD</type>
  <name>String</name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <custom-ciphers>
    <custom-cipher>String</custom-cipher>
    <uri>String</uri>
  </custom-ciphers>
  <exempted-addresses>
    <address-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
```


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```
        <address-type>FEED_TYPE</address-type>
        <variable-id>Integer</variable-id>
        <uri>String</uri>
      </address-reference>
      <uri>String</uri>
    </exempted-addresses>
    <whitelist-url-categories>
      <url-category-ref/>
      <uri>String</uri>
    </whitelist-url-categories>
    <sessions-allowed-log>Boolean</sessions-allowed-log>
    <is-flow-tracing>Boolean</is-flow-tracing>
    <root-certificates>
      <ssl-forward-proxy-certificate>
        <trusted-cas>
          <trusted-ca>String</trusted-ca>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </trusted-cas>
        <security-device-id>Integer</security-device-id>
        <root-certificate>
          <root-certificate>String</root-certificate>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </root-certificate>
        <security-device-name>String</security-device-name>
        <uri>String</uri>
      </ssl-forward-proxy-certificate>
      <uri>String</uri>
    </root-certificates>
    <server-certificates>
      <ssl-reverse-proxy-certificate>
        <serverCerts>
          <serverCert>String</serverCert>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </serverCerts>
        <security-device-ref/>
        <uri>String</uri>
      </ssl-reverse-proxy-certificate>
      <uri>String</uri>
    </server-certificates>
    <disable-session-resumption>Boolean</disable-session-resumption>
    <version>Integer</version>
    <sessions-white-listed-log>Boolean</sessions-white-listed-log>
    <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
    <id>Integer</id>
    <sessions-dropped-log>Boolean</sessions-dropped-log>
    <renegotiation>ALLOW</renegotiation>
    <renegotiation>ALLOW_SECURE</renegotiation>
    <renegotiation>DROP</renegotiation>
    <renegotiation>NONE</renegotiation>
    <error-log>Boolean</error-log>
    <info-log>Boolean</info-log>
    <uri>String</uri>
    <link>String</link>
    <owning-system>String</owning-system>
  </ssl-proxy-profile>
```

Update SSL Proxy Profile Reference Count

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Updates the reference count for a single SSL Proxy Profile.

URI	/api/juniper/sd/ssl-proxy-profile-management/v5/ssl-proxy-profiles/ref-count-update
HTTP method	POST
Content-Type	application/json
Accept-Type	application/json
Access-Control	createSSLForwardProxyProfile

Sample JSON Input

```
{
  "type" : "String"
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<type>String</type>
```

Sample JSON Output:

```
{
  "output" : {
    "ref_from_uuid" : "String",
    "ref_to_uuid" : "String",
    "ref_count" : "int"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<output>
  <ref_from_uuid>String</ref_from_uuid>
  <ref_to_uuid>String</ref_to_uuid>
  <ref_count>int</ref_count>
</output>
```

Update SSL Proxy Profile

Modifies an existing SSL Proxy Profile identified by its ID.

URI	/api/juniper/sd/ssl-proxy-profile-management/v5/ssl-proxy-profiles/{id}
HTTP method	PUT
Content-Type	application/xml;charset=UTF-8 application/json;charset=UTF-8
Accept-Type	application/xml application/json
Access-Control	modifySSLForwardProxyProfile

Sample JSON Input

```
{
 "ssl-proxy-profile" : {
   "all-log" : "Boolean",
   "preferred-cipher" : "String",
   "session-ignored-log" : "Boolean",
   "predefined" : "Boolean",
   "edit-version" : "Integer",
   "warning-log" : "Boolean",
   "description" : "String",
   "type" : [ "REVERSE", "FORWARD" ],
   "name" : "String",
   "custom-ciphers" : {
     "custom-cipher" : [ "String" ]
   },
   "exempted-addresses" : {
     "address-reference" : [ {
       "id" : "Integer",
       "uuid" : "String",
       "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
       "display_name" : "String",
       "description" : "String",
       "name" : "String",
```


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```
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer"
      } ]
    },
    "whitelist-url-categories" : {
      "url-category-ref" : [ { } ]
    },
    "sessions-allowed-log" : "Boolean",
    "is-flow-tracing" : "Boolean",
    "root-certificates" : {
      "ssl-forward-proxy-certificate" : [ {
        "trusted-cas" : {
          "trusted-ca" : [ "String" ],
          "totalSize" : "Integer"
        },
        "security-device-id" : "Integer",
        "root-certificates" : {
          "root-certificate" : [ "String" ],
          "totalSize" : "Integer"
        },
        "security-device-name" : "String"
      } ]
    },
    "server-certificates" : {
      "ssl-reverse-proxy-certificate" : [ {
        "serverCerts" : {
          "serverCert" : [ "String" ],
          "totalSize" : "Integer"
        },
        "security-device-ref" : { }
      } ]
    },
    "disable-session-resumption" : "Boolean",
    "version" : "Integer",
    "sessions-white-listed-log" : "Boolean",
    "ignore-server-auth-failure" : "Boolean",
    "id" : "Integer",
    "uuid" : "String",
    "display_name" : "String",
    "update_number" : "int",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "sessions-dropped-log" : "Boolean",
    "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
    "error-log" : "Boolean",
    "info-log" : "Boolean"
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-proxy-profile>
  <all-log>Boolean</all-log>
  <preferred-cipher>String</preferred-cipher>
  <session-ignored-log>Boolean</session-ignored-log>
  <predefined>Boolean</predefined>
  <edit-version>Integer</edit-version>
  <warning-log>Boolean</warning-log>
  <description>String</description>
```


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```
<type>REVERSE</type>
<type>FORWARD</type>
<name>String</name>
<custom-ciphers>
  <custom-cipher>String</custom-cipher>
</custom-ciphers>
<exempted-addresses>
  <address-reference>
    <id>Integer</id>
    <uuid>String</uuid>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <display_name>String</display_name>
    <description>String</description>
    <name>String</name>
    <address-type>IPADDRESS</address-type>
    <address-type>DELETED_1</address-type>
    <address-type>GROUP</address-type>
    <address-type>RANGE</address-type>
    <address-type>NETWORK</address-type>
    <address-type>INTERNET</address-type>
    <address-type>WILDCARD</address-type>
    <address-type>DNS</address-type>
    <address-type>POLYMORPHIC</address-type>
    <address-type>ANY</address-type>
    <address-type>ANY_IPV4</address-type>
    <address-type>ANY_IPV6</address-type>
    <address-type>ALL_IPV6</address-type>
    <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
    <address-type>Z_TYPE_IMPORT</address-type>
    <address-type>IPS_TYPE_IMPORT</address-type>
    <address-type>FEED_TYPE</address-type>
    <variable-id>Integer</variable-id>
  </address-reference>
</exempted-addresses>
<whitelist-url-categories>
  <url-category-ref/>
</whitelist-url-categories>
<sessions-allowed-log>Boolean</sessions-allowed-log>
<is-flow-tracing>Boolean</is-flow-tracing>
<root-certificates>
  <ssl-forward-proxy-certificate>
    <trusted-cas>
      <trusted-ca>String</trusted-ca>
      <totalSize>Integer</totalSize>
    </trusted-cas>
    <security-device-id>Integer</security-device-id>
    <root-certificates>
      <root-certificate>String</root-certificate>
      <totalSize>Integer</totalSize>
    </root-certificates>
    <security-device-name>String</security-device-name>
  </ssl-forward-proxy-certificate>
</root-certificates>
<server-certificates>
  <ssl-reverse-proxy-certificate>
    <serverCerts>
      <serverCert>String</serverCert>
      <totalSize>Integer</totalSize>
    </serverCerts>
    <security-device-ref/>
  </ssl-reverse-proxy-certificate>
```


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```
  </server-certificates>
  <disable-session-resumption>Boolean</disable-session-resumption>
  <version>Integer</version>
  <sessions-white-listed-log>Boolean</sessions-white-listed-log>
  <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
  <id>Integer</id>
  <uuid>String</uuid>
  <display_name>String</display_name>
  <update_number>int</update_number>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <sessions-dropped-log>Boolean</sessions-dropped-log>
  <renegotiation>ALLOW</renegotiation>
  <renegotiation>ALLOW_SECURE</renegotiation>
  <renegotiation>DROP</renegotiation>
  <renegotiation>NONE</renegotiation>
  <error-log>Boolean</error-log>
  <info-log>Boolean</info-log>
</ssl-proxy-profile>
```

Sample JSON Output:

```
{
  "ssl-proxy-profile" : {
    "all-log" : "Boolean",
    "preferred-cipher" : "String",
    "session-ignored-log" : "Boolean",
    "domain-id" : "Integer",
    "predefined" : "Boolean",
    "edit-version" : "Integer",
    "warning-log" : "Boolean",
    "description" : "String",
    "type" : [ "REVERSE", "FORWARD" ],
    "name" : "String",
    "custom-ciphers" : {
      "custom-cipher" : [ "String" ],
      "uri" : "String"
    },
    "exempted-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "uuid" : "String",
        "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "display_name" : "String",
        "description" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "whitelist-url-categories" : {
      "url-category-ref" : [ { } ],
```


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```
    "uri" : "String"
  },
  "sessions-allowed-log" : "Boolean",
  "is-flow-tracing" : "Boolean",
  "root-certificates" : {
    "ssl-forward-proxy-certificate" : [ {
      "trusted-cas" : {
        "trusted-ca" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "security-device-id" : "Integer",
      "root-certificates" : {
        "root-certificate" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "security-device-name" : "String",
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "server-certificates" : {
    "ssl-reverse-proxy-certificate" : [ {
      "serverCerts" : {
        "serverCert" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "security-device-ref" : { },
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "disable-session-resumption" : "Boolean",
  "version" : "Integer",
  "sessions-white-listed-log" : "Boolean",
  "ignore-server-auth-failure" : "Boolean",
  "id" : "Integer",
  "uuid" : "String",
  "display_name" : "String",
  "update_number" : "int",
  "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "id_perms" : {
    "created" : "String",
    "creator" : "String",
    "last_modified" : "String",
    "last-modified-by-user-name" : "String",
    "created-time" : "Date",
    "last-modified-time" : "Date"
  },
  "sessions-dropped-log" : "Boolean",
  "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
  "error-log" : "Boolean",
  "info-log" : "Boolean",
  "uri" : "String",
  "link" : "String",
  "owning-system" : "String"
 }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-proxy-profile>
  <all-log>Boolean</all-log>
  <preferred-cipher>String</preferred-cipher>
  <session-ignored-log>Boolean</session-ignored-log>
  <domain-id>Integer</domain-id>
  <predefined>Boolean</predefined>
  <edit-version>Integer</edit-version>
  <warning-log>Boolean</warning-log>
  <description>String</description>
  <type>REVERSE</type>
  <type>FORWARD</type>
  <name>String</name>
  <custom-ciphers>
    <custom-cipher>String</custom-cipher>
    <uri>String</uri>
  </custom-ciphers>
  <exempted-addresses>
    <address-reference>
      <id>Integer</id>
      <uuid>String</uuid>
      <definition_type>Hidden</definition_type>
      <definition_type>Predefined</definition_type>
      <definition_type>Custom</definition_type>
      <definition_type>All</definition_type>
      <display_name>String</display_name>
      <description>String</description>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <variable-id>Integer</variable-id>
      <uri>String</uri>
    </address-reference>
    <uri>String</uri>
  </exempted-addresses>
  <whitelist-url-categories>
    <url-category-ref/>
    <uri>String</uri>
  </whitelist-url-categories>
  <sessions-allowed-log>Boolean</sessions-allowed-log>
  <is-flow-tracing>Boolean</is-flow-tracing>
  <root-certificates>
    <ssl-forward-proxy-certificate>
      <trusted-cas>
        <trusted-ca>String</trusted-ca>
```


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```
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </trusted-cas>
      <security-device-id>Integer</security-device-id>
      <root-certificates>
        <root-certificate>String</root-certificate>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </root-certificates>
      <security-device-name>String</security-device-name>
      <uri>String</uri>
    </ssl-forward-proxy-certificate>
    <uri>String</uri>
  </root-certificates>
  <server-certificates>
    <ssl-reverse-proxy-certificate>
      <serverCerts>
        <serverCert>String</serverCert>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </serverCerts>
      <security-device-ref/>
      <uri>String</uri>
    </ssl-reverse-proxy-certificate>
    <uri>String</uri>
  </server-certificates>
  <disable-session-resumption>Boolean</disable-session-resumption>
  <version>Integer</version>
  <sessions-white-listed-log>Boolean</sessions-white-listed-log>
  <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
  <id>Integer</id>
  <uuid>String</uuid>
  <display_name>String</display_name>
  <update_number>int</update_number>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <sessions-dropped-log>Boolean</sessions-dropped-log>
  <renegotiation>ALLOW</renegotiation>
  <renegotiation>ALLOW_SECURE</renegotiation>
  <renegotiation>DROP</renegotiation>
  <renegotiation>NONE</renegotiation>
  <error-log>Boolean</error-log>
  <info-log>Boolean</info-log>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
</ssl-proxy-profile>
```

Retrieve SSL Proxy Profile by ID

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Fetches the complete detailed configuration of a specific SSL Proxy Profile by its ID.

URI	/api/juniper/sd/ssl-proxy-profile-management/v5/ssl-proxy-profiles/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	manageSSLForwardProxyProfile

Sample JSON Output:


```
{
  "ssl-proxy-profile" : {
    "all-log" : "Boolean",
    "preferred-cipher" : "String",
    "session-ignored-log" : "Boolean",
    "domain-id" : "Integer",
    "predefined" : "Boolean",
    "edit-version" : "Integer",
    "warning-log" : "Boolean",
    "description" : "String",
    "type" : [ "REVERSE", "FORWARD" ],
    "name" : "String",
    "custom-ciphers" : {
      "custom-cipher" : [ "String" ],
      "uri" : "String"
    },
    "exempted-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "uuid" : "String",
        "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "display_name" : "String",
        "description" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "whitelist-url-categories" : {
      "url-category-ref" : [ { } ],
```


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```
    "uri" : "String"
  },
  "sessions-allowed-log" : "Boolean",
  "is-flow-tracing" : "Boolean",
  "root-certificates" : {
    "ssl-forward-proxy-certificate" : [ {
      "trusted-cas" : {
        "trusted-ca" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "security-device-id" : "Integer",
      "root-certificates" : {
        "root-certificate" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "security-device-name" : "String",
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "server-certificates" : {
    "ssl-reverse-proxy-certificate" : [ {
      "serverCerts" : {
        "serverCert" : [ "String" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "security-device-ref" : { },
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "disable-session-resumption" : "Boolean",
  "version" : "Integer",
  "sessions-white-listed-log" : "Boolean",
  "ignore-server-auth-failure" : "Boolean",
  "id" : "Integer",
  "uuid" : "String",
  "display_name" : "String",
  "update_number" : "int",
  "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "id_perms" : {
    "created" : "String",
    "creator" : "String",
    "last_modified" : "String",
    "last-modified-by-user-name" : "String",
    "created-time" : "Date",
    "last-modified-time" : "Date"
  },
  "sessions-dropped-log" : "Boolean",
  "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
  "error-log" : "Boolean",
  "info-log" : "Boolean",
  "uri" : "String",
  "link" : "String",
  "owning-system" : "String"
 }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-proxy-profile>
  <all-log>Boolean</all-log>
  <preferred-cipher>String</preferred-cipher>
  <session-ignored-log>Boolean</session-ignored-log>
  <domain-id>Integer</domain-id>
  <predefined>Boolean</predefined>
  <edit-version>Integer</edit-version>
  <warning-log>Boolean</warning-log>
  <description>String</description>
  <type>REVERSE</type>
  <type>FORWARD</type>
  <name>String</name>
  <custom-ciphers>
    <custom-cipher>String</custom-cipher>
    <uri>String</uri>
  </custom-ciphers>
  <exempted-addresses>
    <address-reference>
      <id>Integer</id>
      <uuid>String</uuid>
      <definition_type>Hidden</definition_type>
      <definition_type>Predefined</definition_type>
      <definition_type>Custom</definition_type>
      <definition_type>All</definition_type>
      <display_name>String</display_name>
      <description>String</description>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <variable-id>Integer</variable-id>
      <uri>String</uri>
    </address-reference>
    <uri>String</uri>
  </exempted-addresses>
  <whitelist-url-categories>
    <url-category-ref/>
    <uri>String</uri>
  </whitelist-url-categories>
  <sessions-allowed-log>Boolean</sessions-allowed-log>
  <is-flow-tracing>Boolean</is-flow-tracing>
  <root-certificates>
    <ssl-forward-proxy-certificate>
      <trusted-cas>
        <trusted-ca>String</trusted-ca>
```


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```
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </trusted-cas>
      <security-device-id>Integer</security-device-id>
      <root-certificates>
        <root-certificate>String</root-certificate>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </root-certificates>
      <security-device-name>String</security-device-name>
      <uri>String</uri>
    </ssl-forward-proxy-certificate>
    <uri>String</uri>
  </root-certificates>
  <server-certificates>
    <ssl-reverse-proxy-certificate>
      <serverCerts>
        <serverCert>String</serverCert>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </serverCerts>
      <security-device-ref/>
      <uri>String</uri>
    </ssl-reverse-proxy-certificate>
    <uri>String</uri>
  </server-certificates>
  <disable-session-resumption>Boolean</disable-session-resumption>
  <version>Integer</version>
  <sessions-white-listed-log>Boolean</sessions-white-listed-log>
  <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
  <id>Integer</id>
  <uuid>String</uuid>
  <display_name>String</display_name>
  <update_number>int</update_number>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <sessions-dropped-log>Boolean</sessions-dropped-log>
  <renegotiation>ALLOW</renegotiation>
  <renegotiation>ALLOW_SECURE</renegotiation>
  <renegotiation>DROP</renegotiation>
  <renegotiation>NONE</renegotiation>
  <error-log>Boolean</error-log>
  <info-log>Boolean</info-log>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
</ssl-proxy-profile>
```

Retrieve All SSL Proxy Profiles (Paginated)

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Fetches a paginated list of all configured SSL Proxy Profiles.

URI	/api/juniper/sd/ssl-proxy-profile-management/v5/ssl-proxy-profiles
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
Access-Control	manageSSLForwardProxyProfile

Sample JSON Output:


```
{
  "ssl-proxy-profiles" : {
    "ssl-proxy-profile" : [ {
      "type" : [ "REVERSE", "FORWARD" ],
      "preferred-cipher" : "String",
      "custom-ciphers" : {
        "custom-cipher" : [ "String" ],
        "uri" : "String"
      },
      "server-certificates" : {
        "ssl-reverse-proxy-certificate" : [ {
          "serverCerts" : {
            "serverCert" : [ "String" ],
            "uri" : "String",
            "totalSize" : "Integer"
          },
          "security-device-ref" : { },
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "root-certificates" : {
        "ssl-forward-proxy-certificate" : [ {
          "trusted-cas" : {
            "trusted-ca" : [ "String" ],
            "uri" : "String",
            "totalSize" : "Integer"
          },
          "security-device-id" : "Integer",
          "root-certificate" : {
            "root-certificate" : [ "String" ],
            "uri" : "String",
            "totalSize" : "Integer"
          },
          "security-device-name" : "String",
          "uri" : "String"
```


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```
        } ],
        "uri" : "String"
      },
      "all-log" : "Boolean",
      "is-flow-tracing" : "Boolean",
      "disable-session-resumption" : "Boolean",
      "sessions-white-listed-log" : "Boolean",
      "ignore-server-auth-failure" : "Boolean",
      "id" : "Integer",
      "sessions-dropped-log" : "Boolean",
      "session-ignored-log" : "Boolean",
      "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
      "error-log" : "Boolean",
      "warning-log" : "Boolean",
      "description" : "String",
      "name" : "String",
      "sessions-allowed-log" : "Boolean",
      "info-log" : "Boolean",
      "exempted-addresses" : {
        "address-reference" : [ {
          "id" : "Integer",
          "domain-id" : "Integer",
          "name" : "String",
          "domain-name" : "String",
          "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
          "variable-id" : "Integer",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "domain-id" : "Integer",
      "uri" : "String",
      "link" : "String",
      "owning-system" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-proxy-profiles>
  <ssl-proxy-profile>
    <type>REVERSE</type>
    <type>FORWARD</type>
    <preferred-cipher>String</preferred-cipher>
    <custom-ciphers>
      <custom-cipher>String</custom-cipher>
      <uri>String</uri>
    </custom-ciphers>
    <server-certificates>
      <ssl-reverse-proxy-certificate>
        <serverCerts>
          <serverCert>String</serverCert>
          <uri>String</uri>
          <totalSize>Integer</totalSize>
        </serverCerts>
        <security-device-ref/>
        <uri>String</uri>
      </ssl-reverse-proxy-certificate>
```


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```
    <uri>String</uri>
</server-certificates>
<root-certificates>
    <ssl-forward-proxy-certificate>
        <trusted-cas>
            <trusted-ca>String</trusted-ca>
            <uri>String</uri>
            <totalSize>Integer</totalSize>
        </trusted-cas>
        <security-device-id>Integer</security-device-id>
        <root-certificate>
            <root-certificate>String</root-certificate>
            <uri>String</uri>
            <totalSize>Integer</totalSize>
        </root-certificate>
        <security-device-name>String</security-device-name>
        <uri>String</uri>
    </ssl-forward-proxy-certificate>
    <uri>String</uri>
</root-certificates>
<all-log>Boolean</all-log>
<is-flow-tracing>Boolean</is-flow-tracing>
<disable-session-resumption>Boolean</disable-session-resumption>
<sessions-white-listed-log>Boolean</sessions-white-listed-log>
<ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
<id>Integer</id>
<sessions-dropped-log>Boolean</sessions-dropped-log>
<session-ignored-log>Boolean</session-ignored-log>
<renegotiation>ALLOW</renegotiation>
<renegotiation>ALLOW_SECURE</renegotiation>
<renegotiation>DROP</renegotiation>
<renegotiation>NONE</renegotiation>
<error-log>Boolean</error-log>
<warning-log>Boolean</warning-log>
<description>String</description>
<name>String</name>
<sessions-allowed-log>Boolean</sessions-allowed-log>
<info-log>Boolean</info-log>
<exempted-addresses>
    <address-reference>
        <id>Integer</id>
        <domain-id>Integer</domain-id>
        <name>String</name>
        <domain-name>String</domain-name>
        <address-type>IPADDRESS</address-type>
        <address-type>DELETED_1</address-type>
        <address-type>GROUP</address-type>
        <address-type>RANGE</address-type>
        <address-type>NETWORK</address-type>
        <address-type>INTERNET</address-type>
        <address-type>WILDCARD</address-type>
        <address-type>DNS</address-type>
        <address-type>POLYMORPHIC</address-type>
        <address-type>ANY</address-type>
        <address-type>ANY_IPV4</address-type>
        <address-type>ANY_IPV6</address-type>
        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
        <variable-id>Integer</variable-id>
        <uri>String</uri>
    </address-reference>
```


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```
      <uri>String</uri>
    </exempted-addresses>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
    <link>String</link>
    <owning-system>String</owning-system>
  </ssl-proxy-profile>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</ssl-proxy-profiles>
```

Delete SSL Proxy Profile

Deletes a specific SSL Proxy Profile from the system by its ID.

URI	/api/juniper/sd/ssl-proxy-profile-management/v5/ssl-proxy-profiles/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteSSLForwardProxyProfile

Create SSL Proxy Profile

Creates a new SSL Proxy Profile configuration.

URI	/api/juniper/sd/ssl-proxy-profile-management/v5/ssl-proxy-profiles
HTTP method	POST
Content-Type	application/xml;charset=UTF-8 application/json;charset=UTF-8

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Accept-Type	application/xml application/json
Access-Control	createSSLForwardProxyProfile

Sample JSON Input


```
{
  "ssl-proxy-profile" : {
    "all-log" : "Boolean",
    "preferred-cipher" : "String",
    "session-ignored-log" : "Boolean",
    "predefined" : "Boolean",
    "edit-version" : "Integer",
    "warning-log" : "Boolean",
    "description" : "String",
    "type" : [ "REVERSE", "FORWARD" ],
    "name" : "String",
    "custom-ciphers" : {
      "custom-cipher" : [ "String" ]
    },
    "exempted-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "uuid" : "String",
        "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "display_name" : "String",
        "description" : "String",
        "name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer"
      } ]
    },
    "whitelist-url-categories" : {
      "url-category-ref" : [ { } ]
    },
    "sessions-allowed-log" : "Boolean",
    "is-flow-tracing" : "Boolean",
    "root-certificates" : {
      "ssl-forward-proxy-certificate" : [ {
        "trusted-cas" : {
          "trusted-ca" : [ "String" ],
          "totalSize" : "Integer"
        },
        "security-device-id" : "Integer",
        "root-certificates" : {
          "root-certificate" : [ "String" ],
          "totalSize" : "Integer"
        },
        "security-device-name" : "String"
      } ]
    },
    "server-certificates" : {
      "ssl-reverse-proxy-certificate" : [ {
        "serverCerts" : {
          "serverCert" : [ "String" ],
          "totalSize" : "Integer"
        },
```


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```
      "security-device-ref" : { }
    } ]
  },
  "disable-session-resumption" : "Boolean",
  "version" : "Integer",
  "sessions-white-listed-log" : "Boolean",
  "ignore-server-auth-failure" : "Boolean",
  "id" : "Integer",
  "uuid" : "String",
  "display_name" : "String",
  "update_number" : "int",
  "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "id_perms" : {
    "created" : "String",
    "creator" : "String",
    "last_modified" : "String"
  },
  "sessions-dropped-log" : "Boolean",
  "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
  "error-log" : "Boolean",
  "info-log" : "Boolean"
 }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-proxy-profile>
  <all-log>Boolean</all-log>
  <preferred-cipher>String</preferred-cipher>
  <session-ignored-log>Boolean</session-ignored-log>
  <predefined>Boolean</predefined>
  <edit-version>Integer</edit-version>
  <warning-log>Boolean</warning-log>
  <description>String</description>
  <type>REVERSE</type>
  <type>FORWARD</type>
  <name>String</name>
  <custom-ciphers>
    <custom-cipher>String</custom-cipher>
  </custom-ciphers>
  <exempted-addresses>
    <address-reference>
      <id>Integer</id>
      <uuid>String</uuid>
      <definition_type>Hidden</definition_type>
      <definition_type>Predefined</definition_type>
      <definition_type>Custom</definition_type>
      <definition_type>All</definition_type>
      <display_name>String</display_name>
      <description>String</description>
      <name>String</name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
```


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```
        <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
        <address-type>Z_TYPE_IMPORT</address-type>
        <address-type>IPS_TYPE_IMPORT</address-type>
        <address-type>FEED_TYPE</address-type>
        <variable-id>Integer</variable-id>
      </address-reference>
    </exempted-addresses>
    <whitelist-url-categories>
      <url-category-ref/>
    </whitelist-url-categories>
    <sessions-allowed-log>Boolean</sessions-allowed-log>
    <is-flow-tracing>Boolean</is-flow-tracing>
    <root-certificates>
      <ssl-forward-proxy-certificate>
        <trusted-cas>
          <trusted-ca>String</trusted-ca>
          <totalSize>Integer</totalSize>
        </trusted-cas>
        <security-device-id>Integer</security-device-id>
        <root-certificates>
          <root-certificate>String</root-certificate>
          <totalSize>Integer</totalSize>
        </root-certificates>
        <security-device-name>String</security-device-name>
      </ssl-forward-proxy-certificate>
    </root-certificates>
    <server-certificates>
      <ssl-reverse-proxy-certificate>
        <serverCerts>
          <serverCert>String</serverCert>
          <totalSize>Integer</totalSize>
        </serverCerts>
        <security-device-ref/>
      </ssl-reverse-proxy-certificate>
    </server-certificates>
    <disable-session-resumption>Boolean</disable-session-resumption>
    <version>Integer</version>
    <sessions-white-listed-log>Boolean</sessions-white-listed-log>
    <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
    <id>Integer</id>
    <uuid>String</uuid>
    <display_name>String</display_name>
    <update_number>int</update_number>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
    </id_perms>
    <sessions-dropped-log>Boolean</sessions-dropped-log>
    <renegotiation>ALLOW</renegotiation>
    <renegotiation>ALLOW_SECURE</renegotiation>
    <renegotiation>DROP</renegotiation>
    <renegotiation>NONE</renegotiation>
    <error-log>Boolean</error-log>
    <info-log>Boolean</info-log>
  </ssl-proxy-profile>
```


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Sample JSON Output:


```
{
  "ssl-proxy-profile" : {
    "all-log" : "Boolean",
    "preferred-cipher" : "String",
    "session-ignored-log" : "Boolean",
    "domain-id" : "Integer",
    "predefined" : "Boolean",
    "edit-version" : "Integer",
    "warning-log" : "Boolean",
    "description" : "String",
    "type" : [ "REVERSE", "FORWARD" ],
    "name" : "String",
    "custom-ciphers" : {
      "custom-cipher" : [ "String" ],
      "uri" : "String"
    },
    "exempted-addresses" : {
      "address-reference" : [ {
        "id" : "Integer",
        "uuid" : "String",
        "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "display_name" : "String",
        "description" : "String",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "address-type" : [ "IPADDRESS", "DELETED_1", "GROUP", "RANGE", "NETWORK", "INTERNET",
"WILDCARD", "DNS", "POLYMORPHIC", "ANY", "ANY_IPV4", "ANY_IPV6", "ALL_IPV6",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT", "IPS_TYPE_IMPORT", "FEED_TYPE" ],
        "variable-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "whitelist-url-categories" : {
      "url-category-ref" : [ { } ],
      "uri" : "String"
    },
    "sessions-allowed-log" : "Boolean",
    "is-flow-tracing" : "Boolean",
    "root-certificates" : {
      "ssl-forward-proxy-certificate" : [ {
        "trusted-cas" : {
          "trusted-ca" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "security-device-id" : "Integer",
        "root-certificates" : {
          "root-certificate" : [ "String" ],
          "uri" : "String",
          "totalSize" : "Integer"
        },
        "security-device-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "server-certificates" : {
      "ssl-reverse-proxy-certificate" : [ {
        "serverCerts" : {
          "serverCert" : [ "String" ],
```


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```
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "security-device-ref" : { },
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "disable-session-resumption" : "Boolean",
  "version" : "Integer",
  "sessions-white-listed-log" : "Boolean",
  "ignore-server-auth-failure" : "Boolean",
  "id" : "Integer",
  "uuid" : "String",
  "display_name" : "String",
  "update_number" : "int",
  "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "id_perms" : {
    "created" : "String",
    "creator" : "String",
    "last_modified" : "String",
    "last-modified-by-user-name" : "String",
    "created-time" : "Date",
    "last-modified-time" : "Date"
  },
  "sessions-dropped-log" : "Boolean",
  "renegotiation" : [ "ALLOW", "ALLOW_SECURE", "DROP", "NONE" ],
  "error-log" : "Boolean",
  "info-log" : "Boolean",
  "uri" : "String",
  "link" : "String",
  "owning-system" : "String"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-proxy-profile>
  <all-log>Boolean</all-log>
  <preferred-cipher>String</preferred-cipher>
  <session-ignored-log>Boolean</session-ignored-log>
  <domain-id>Integer</domain-id>
  <predefined>Boolean</predefined>
  <edit-version>Integer</edit-version>
  <warning-log>Boolean</warning-log>
  <description>String</description>
  <type>REVERSE</type>
  <type>FORWARD</type>
  <name>String</name>
  <custom-ciphers>
    <custom-cipher>String</custom-cipher>
    <uri>String</uri>
  </custom-ciphers>
  <exempted-addresses>
    <address-reference>
      <id>Integer</id>
      <uuid>String</uuid>
      <definition_type>Hidden</definition_type>
      <definition_type>Predefined</definition_type>
      <definition_type>Custom</definition_type>
      <definition_type>All</definition_type>
      <display_name>String</display_name>
      <description>String</description>
```


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```
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <address-type>IPADDRESS</address-type>
      <address-type>DELETED_1</address-type>
      <address-type>GROUP</address-type>
      <address-type>RANGE</address-type>
      <address-type>NETWORK</address-type>
      <address-type>INTERNET</address-type>
      <address-type>WILDCARD</address-type>
      <address-type>DNS</address-type>
      <address-type>POLYMORPHIC</address-type>
      <address-type>ANY</address-type>
      <address-type>ANY_IPV4</address-type>
      <address-type>ANY_IPV6</address-type>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</address-type>
      <address-type>IPS_TYPE_IMPORT</address-type>
      <address-type>FEED_TYPE</address-type>
      <variable-id>Integer</variable-id>
      <uri>String</uri>
    </address-reference>
    <uri>String</uri>
  </exempted-addresses>
  <whitelist-url-categories>
    <url-category-ref/>
    <uri>String</uri>
  </whitelist-url-categories>
  <sessions-allowed-log>Boolean</sessions-allowed-log>
  <is-flow-tracing>Boolean</is-flow-tracing>
  <root-certificates>
    <ssl-forward-proxy-certificate>
      <trusted-cas>
        <trusted-ca>String</trusted-ca>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </trusted-cas>
      <security-device-id>Integer</security-device-id>
      <root-certificates>
        <root-certificate>String</root-certificate>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </root-certificates>
      <security-device-name>String</security-device-name>
      <uri>String</uri>
    </ssl-forward-proxy-certificate>
    <uri>String</uri>
  </root-certificates>
  <server-certificates>
    <ssl-reverse-proxy-certificate>
      <serverCerts>
        <serverCert>String</serverCert>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </serverCerts>
      <security-device-ref/>
      <uri>String</uri>
    </ssl-reverse-proxy-certificate>
    <uri>String</uri>
  </server-certificates>
  <disable-session-resumption>Boolean</disable-session-resumption>
  <version>Integer</version>
  <sessions-white-listed-log>Boolean</sessions-white-listed-log>
```


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```
  <ignore-server-auth-failure>Boolean</ignore-server-auth-failure>
  <id>Integer</id>
  <uuid>String</uuid>
  <display_name>String</display_name>
  <update_number>int</update_number>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <sessions-dropped-log>Boolean</sessions-dropped-log>
  <renegotiation>ALLOW</renegotiation>
  <renegotiation>ALLOW_SECURE</renegotiation>
  <renegotiation>DROP</renegotiation>
  <renegotiation>NONE</renegotiation>
  <error-log>Boolean</error-log>
  <info-log>Boolean</info-log>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
</ssl-proxy-profile>
```


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CHAPTER 34

SSL VPN Profile Restful Web Services

The following opertions can be performed using Secuirty Director SSL VPN Profile Restful Web Services

Get SSL VPN Profile by Device Id

URI	/api/juniper/sd/vpn-management/ipsec-vpns/ssl-vpn-profiles/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns.ssl-vpn-profiles+xml;version=2;q=0.02 application/vnd.juniper.sd.vpn-management.ipsec-vpns.ssl-vpn-profiles+json;version=2;q=0.02
Access-Control	VPN.read

Sample JSON Output:


```
{
  "ssl-vpn-profiles" : {
    "ssl-vpn-profile" : [ {
      "edit-version" : "Integer",
      "created-by-user-name" : "String",
      "domain-name" : "String",
      "version" : "Integer",
      "id" : "Integer",
      "last-modified-by-user-name" : "String",
      "global" : "String",
      "domain-id" : "Integer",
      "uri" : "String",
      "link" : "String",
      "device-id" : "Integer",
```


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```
      "name" : "String",
      "termination-profile-name" : "String",
      "logging" : "Boolean",
      "server-certificate" : "String",
      "ipsec-vpns" : {
        "ipsec-vpn" : [ "String" ],
        "uri" : "String"
      }
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-vpn-profiles>
  <ssl-vpn-profile>
    <edit-version>Integer</edit-version>
    <created-by-user-name>String</created-by-user-name>
    <domain-name>String</domain-name>
    <version>Integer</version>
    <id>Integer</id>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <global>String</global>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
    <link>String</link>
    <device-id>Integer</device-id>
    <name>String</name>
    <termination-profile-name>String</termination-profile-name>
    <logging>Boolean</logging>
    <server-certificate>String</server-certificate>
    <ipsec-vpns>
      <ipsec-vpn>String</ipsec-vpn>
      <uri>String</uri>
    </ipsec-vpns>
  </ssl-vpn-profile>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</ssl-vpn-profiles>
```


Get SSL VPN Profile by Id

URI	/api/juniper/sd/vpn-management/ipsec-vpns/ssl-vpn-profile/{id}
HTTP method	GET
Content-Type	None

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Accept-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns.ssl-vpn-profile+xml;version=2;q=0.02 application/vnd.juniper.sd.vpn-management.ipsec-vpns.ssl-vpn-profile+json;version=2;q=0.02
Access-Control	VPN.read

Sample JSON Output:


```
{
  "ssl-vpn-profile" : {
    "edit-version" : "Integer",
    "created-by-user-name" : "String",
    "domain-name" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "last-modified-by-user-name" : "String",
    "global" : "String",
    "domain-id" : "Integer",
    "uri" : "String",
    "link" : "String",
    "device-id" : "Integer",
    "name" : "String",
    "termination-profile-name" : "String",
    "logging" : "Boolean",
    "server-certificate" : "String",
    "ipsec-vpns" : {
      "ipsec-vpn" : [ "String" ],
      "uri" : "String"
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-vpn-profile>
   <edit-version>Integer</edit-version>
   <created-by-user-name>String</created-by-user-name>
   <domain-name>String</domain-name>
   <version>Integer</version>
   <id>Integer</id>
   <last-modified-by-user-name>String</last-modified-by-user-name>
   <global>String</global>
   <domain-id>Integer</domain-id>
   <uri>String</uri>
   <link>String</link>
   <device-id>Integer</device-id>
   <name>String</name>
   <termination-profile-name>String</termination-profile-name>
   <logging>Boolean</logging>
   <server-certificate>String</server-certificate>
   <ipsec-vpns>
      <ipsec-vpn>String</ipsec-vpn>
      <uri>String</uri>
   </ipsec-vpns>
</ssl-vpn-profile>
```


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Create SSL VPN Profile

Creates a new SSL VPN profile.

URI	/api/juniper/sd/vpn-management/ipsec-vpns/ssl-vpn-profile
HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns.ssl-vpn-profile+xml;version=2; application/vnd.juniper.sd.vpn-management.ipsec-vpns.ssl-vpn-profile+json;version=2;
Accept-Type	None
Access-Control	VPN.create

Sample JSON Input

```
{
  "ssl-vpn-profile" : {
    "edit-version" : "Integer",
    "version" : "Integer",
    "id" : "Integer",
    "device-id" : "Integer",
    "name" : "String",
    "termination-profile-name" : "String",
    "logging" : "Boolean",
    "server-certificate" : "String",
    "ipsec-vpns" : {
      "ipsec-vpn" : [ "String" ]
    }
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-vpn-profile>
   <edit-version>Integer</edit-version>
   <version>Integer</version>
   <id>Integer</id>
   <device-id>Integer</device-id>
   <name>String</name>
   <termination-profile-name>String</termination-profile-name>
   <logging>Boolean</logging>
   <server-certificate>String</server-certificate>
   <ipsec-vpns>
      <ipsec-vpn>String</ipsec-vpn>
   </ipsec-vpns>
</ssl-vpn-profile>
```


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Modify SSL VPN Profile

Updates an existing SSL VPN profile.

URI	/api/juniper/sd/vpn-management/ipsec-vpns/ssl-vpn-profile/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns.ssl-vpn-profile+xml;version=2; application/vnd.juniper.sd.vpn-management.ipsec-vpns.ssl-vpn-profile+json;version=2;
Accept-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns.ssl-vpn-profile+xml;version=2;q=0.02 application/vnd.juniper.sd.vpn-management.ipsec-vpns.ssl-vpn-profile+json;version=2;q=0.02
Access-Control	VPN.update

Sample JSON Input

```
{
  "ssl-vpn-profile" : {
    "edit-version" : "Integer",
    "version" : "Integer",
    "id" : "Integer",
    "device-id" : "Integer",
    "name" : "String",
    "termination-profile-name" : "String",
    "logging" : "Boolean",
    "server-certificate" : "String",
    "ipsec-vpns" : {
      "ipsec-vpn" : [ "String" ]
    }
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-vpn-profile>
   <edit-version>Integer</edit-version>
   <version>Integer</version>
   <id>Integer</id>
   <device-id>Integer</device-id>
   <name>String</name>
   <termination-profile-name>String</termination-profile-name>
   <logging>Boolean</logging>
   <server-certificate>String</server-certificate>
   <ipsec-vpns>
```


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```
      <ipsec-vpn>String</ipsec-vpn>
    </ipsec-vpns>
</ssl-vpn-profile>
```

Sample JSON Output:

```
{
  "ssl-vpn-profile" : {
    "edit-version" : "Integer",
    "created-by-user-name" : "String",
    "domain-name" : "String",
    "version" : "Integer",
    "id" : "Integer",
    "last-modified-by-user-name" : "String",
    "global" : "String",
    "domain-id" : "Integer",
    "uri" : "String",
    "link" : "String",
    "device-id" : "Integer",
    "name" : "String",
    "termination-profile-name" : "String",
    "logging" : "Boolean",
    "server-certificate" : "String",
    "ipsec-vpns" : {
      "ipsec-vpn" : [ "String" ],
      "uri" : "String"
    }
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<ssl-vpn-profile>
    <edit-version>Integer</edit-version>
    <created-by-user-name>String</created-by-user-name>
    <domain-name>String</domain-name>
    <version>Integer</version>
    <id>Integer</id>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <global>String</global>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
    <link>String</link>
    <device-id>Integer</device-id>
    <name>String</name>
    <termination-profile-name>String</termination-profile-name>
    <logging>Boolean</logging>
    <server-certificate>String</server-certificate>
    <ipsec-vpns>
      <ipsec-vpn>String</ipsec-vpn>
      <uri>String</uri>
    </ipsec-vpns>
</ssl-vpn-profile>
```

Delete SSL VPN Profiles

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Deletes one or more SSL VPN profiles from the system in a bulk operation.

URI	/api/juniper/sd/vpn-management/ipsec-vpns/ssl-vpn-profile/delete
HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.ipsec-vpns.ssl-vpn-profile+xml;version=2; application/vnd.juniper.sd.vpn-management.ipsec-vpns.ssl-vpn-profile+json;version=2;
Accept-Type	None
Access-Control	VPN.delete

Sample JSON Input

```
{
  "id-list" : {
    "ids" : [ "Integer" ]
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
</id-list>
```


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CHAPTER 35

Scheduler Management RESTful Web Services

The following opertions can be performed using Secuirty Director Scheduler Management RESTful Web Services

Update Shared Reference Count

Updates the reference count for a shared object, typically for a scheduler.

URI	/api/juniper/sd/scheduler-management/v5/ref-count-update
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	sdManageScheduler

Sample JSON Input

```
{
  "type" : "String"
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<type>String</type>
```

Sample JSON Output:

```
{
  "output" : {
    "ref_from_uuid" : "String",
    "ref_to_uuid" : "String",
    "ref_count" : "int"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<output>
   <ref_from_uuid>String</ref_from_uuid>
   <ref_to_uuid>String</ref_to_uuid>
   <ref_count>int</ref_count>
</output>
```

Get References by UUIDs

Retrieves references for objects based on a list of their UUIDs.

URI	/api/juniper/sd/scheduler-management/v5/get_refs_by_uuids
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	sdManageScheduler

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Sample JSON Input

```
{
  "input" : {
    "object_uuids" : [ "String" ],
    "flatten" : "boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<input>
   <object_uuids>String</object_uuids>
   <flatten>boolean</flatten>
</input>
```

Sample JSON Output:

```
{
  "External_REFS" : {
    "refs" : [ {
      "objectuuid" : "String",
      "refs" : { }
    } ]
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<External_REFS>
   <refs>
      <objectuuid>String</objectuuid>
      <refs/>
   </refs>
</External_REFS>
```

Bulk Update Shared Reference Counts

Updates reference counts for multiple shared objects in a single batch operation.

URI	/api/juniper/sd/scheduler-management/v5/bulk-ref-count-update
HTTP method	POST
Content-Type	application/json application/xml

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Accept-Type	application/json application/xml
Access-Control	manageAddress

Sample JSON Input

```
{
  "type" : "String"
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<type>String</type>
```

Sample JSON Output:

```
{
  "refUnrefOutputs" : [ {
    "ref_from_uuid" : "String",
    "ref_to_uuid" : "String",
    "ref_count" : "int"
  } ]
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<refUnrefOutputs>
   <ref_from_uuid>String</ref_from_uuid>
   <ref_to_uuid>String</ref_to_uuid>
   <ref_count>int</ref_count>
</refUnrefOutputs>
```

Import Schedulers

Imports a list of scheduler configurations into the system.

URI	/api/juniper/sd/scheduler-management/v5/schedulers/import

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HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	sdManageScheduler

Sample JSON Input

```
{}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
```

Sample JSON Output:

```
{}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Update Scheduler by String ID

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Modifies an existing scheduler identified by its string ID.

URI	/api/juniper/sd/scheduler-management/v5/schedulers/{id}
HTTP method	PUT
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	sdModifyScheduler

Sample JSON Input

```
{
  "scheduler" : {
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "display_name" : "String",
    "name" : "String",
    "update_number" : "int",
    "description" : "String",
    "start-date1" : "String",
    "stop-date1" : "String",
    "start-date2" : "String",
    "stop-date2" : "String",
    "schedules" : {
      "schedule" : [ {
        "day" : [ "DAILY", "SUNDAY", "MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY", "FRIDAY",
"SATURDAY" ],
        "start-time1" : "String",
        "stop-time1" : "String",
        "start-time2" : "String",
        "stop-time2" : "String",
        "exclude" : "Boolean",
        "all-day" : "Boolean"
      } ]
    },
    "edit-version" : "Integer",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "uuid" : "String"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<scheduler>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <display_name>String</display_name>
  <name>String</name>
  <update_number>int</update_number>
  <description>String</description>
  <start-date1>String</start-date1>
  <stop-date1>String</stop-date1>
  <start-date2>String</start-date2>
  <stop-date2>String</stop-date2>
  <schedules>
    <schedule>
      <day>DAILY</day>
      <day>SUNDAY</day>
      <day>MONDAY</day>
      <day>TUESDAY</day>
      <day>WEDNESDAY</day>
      <day>THURSDAY</day>
      <day>FRIDAY</day>
      <day>SATURDAY</day>
      <start-time1>String</start-time1>
      <stop-time1>String</stop-time1>
      <start-time2>String</start-time2>
      <stop-time2>String</stop-time2>
      <exclude>Boolean</exclude>
      <all-day>Boolean</all-day>
    </schedule>
  </schedules>
  <edit-version>Integer</edit-version>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <uuid>String</uuid>
</scheduler>
```

Sample JSON Output:

```
{
 "scheduler" : {
   "id_perms" : {
     "created" : "String",
     "creator" : "String",
     "last_modified" : "String",
     "last-modified-by-user-name" : "String",
     "created-time" : "Date",
     "last-modified-time" : "Date"
   },
   "display_name" : "String",
   "name" : "String",
   "update_number" : "int",
   "description" : "String",
   "start-date1" : "String",
   "stop-date1" : "String",
   "start-date2" : "String",
   "stop-date2" : "String",
   "schedules" : {
     "schedule" : [ {
       "day" : [ "DAILY", "SUNDAY", "MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY", "FRIDAY",
```


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```
"SATURDAY" ],
        "start-time1" : "String",
        "stop-time1" : "String",
        "start-time2" : "String",
        "stop-time2" : "String",
        "exclude" : "Boolean",
        "all-day" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "edit-version" : "Integer",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "domain-name" : "String",
    "domain-id" : "Integer",
    "uuid" : "String",
    "uri" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<scheduler>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display_name>String</display_name>
  <name>String</name>
  <update_number>int</update_number>
  <description>String</description>
  <start-date1>String</start-date1>
  <stop-date1>String</stop-date1>
  <start-date2>String</start-date2>
  <stop-date2>String</stop-date2>
  <schedules>
    <schedule>
      <day>DAILY</day>
      <day>SUNDAY</day>
      <day>MONDAY</day>
      <day>TUESDAY</day>
      <day>WEDNESDAY</day>
      <day>THURSDAY</day>
      <day>FRIDAY</day>
      <day>SATURDAY</day>
      <start-time1>String</start-time1>
      <stop-time1>String</stop-time1>
      <start-time2>String</start-time2>
      <stop-time2>String</stop-time2>
      <exclude>Boolean</exclude>
      <all-day>Boolean</all-day>
      <uri>String</uri>
    </schedule>
    <uri>String</uri>
  </schedules>
  <edit-version>Integer</edit-version>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
```


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```
  <definition_type>All</definition_type>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <uuid>String</uuid>
  <uri>String</uri>
</scheduler>
```

Retrieve Scheduler by String ID

Fetches the complete detailed configuration of a specific scheduler using its string ID.

URI	/api/juniper/sd/scheduler-management/v5/schedulers/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	sdManageScheduler

Sample JSON Output:

```
{
  "scheduler" : {
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
    "name" : "String",
    "update_number" : "int",
    "description" : "String",
    "start-date1" : "String",
    "stop-date1" : "String",
    "start-date2" : "String",
    "stop-date2" : "String",
    "schedules" : {
      "schedule" : [ {
        "day" : [ "DAILY", "SUNDAY", "MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY", "FRIDAY",
"SATURDAY" ],
```


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```
        "start-time1" : "String",
        "stop-time1" : "String",
        "start-time2" : "String",
        "stop-time2" : "String",
        "exclude" : "Boolean",
        "all-day" : "Boolean",
        "uri" : "String"
       } ],
       "uri" : "String"
     },
     "edit-version" : "Integer",
     "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
     "domain-name" : "String",
     "domain-id" : "Integer",
     "uuid" : "String",
     "uri" : "String"
   }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<scheduler>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display_name>String</display_name>
  <name>String</name>
  <update_number>int</update_number>
  <description>String</description>
  <start-date1>String</start-date1>
  <stop-date1>String</stop-date1>
  <start-date2>String</start-date2>
  <stop-date2>String</stop-date2>
  <schedules>
    <schedule>
      <day>DAILY</day>
      <day>SUNDAY</day>
      <day>MONDAY</day>
      <day>TUESDAY</day>
      <day>WEDNESDAY</day>
      <day>THURSDAY</day>
      <day>FRIDAY</day>
      <day>SATURDAY</day>
      <start-time1>String</start-time1>
      <stop-time1>String</stop-time1>
      <start-time2>String</start-time2>
      <stop-time2>String</stop-time2>
      <exclude>Boolean</exclude>
      <all-day>Boolean</all-day>
      <uri>String</uri>
    </schedule>
    <uri>String</uri>
  </schedules>
  <edit-version>Integer</edit-version>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
```


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```
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <uuid>String</uuid>
  <uri>String</uri>
</scheduler>
```

Get Schedulers (Paginated)

Retrieves a paginated list of scheduler objects.

URI	/api/juniper/sd/scheduler-management/v5/schedulers
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	sdManageScheduler

Sample JSON Output:

```
{
  "schedulers" : {
    "scheduler" : [ {
      "last-modified-time" : "Date",
      "created-by-user-name" : "String",
      "version" : "Integer",
      "uuid" : "String",
      "description" : "String",
      "domain-id" : "Integer",
      "schedules" : {
        "schedule" : [ {
          "stop-time1" : "String",
          "stop-time2" : "String",
          "all-day" : "Boolean",
          "exclude" : "Boolean",
          "day" : [ "DAILY", "SUNDAY", "MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY", "FRIDAY",
"SATURDAY" ],
          "start-time1" : "String",
          "start-time2" : "String",
          "uri" : "String"
        } ],
        "uri" : "String",
```


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```
      "totalSize" : "Integer"
    },
    "name" : "String",
    "display_name" : "String",
    "stop-date1" : "String",
    "stop-date2" : "String",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "edit-version" : "Integer",
    "created-time" : "Date",
    "domain-name" : "String",
    "last-modified-by-user-name" : "String",
    "start-date2" : "String",
    "start-date1" : "String",
    "uri" : "String",
    "link" : "String"
   } ],
   "uri" : "String",
   "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<schedulers>
  <scheduler>
    <last-modified-time>Date</last-modified-time>
    <created-by-user-name>String</created-by-user-name>
    <version>Integer</version>
    <uuid>String</uuid>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <schedules>
      <schedule>
        <stop-time1>String</stop-time1>
        <stop-time2>String</stop-time2>
        <all-day>Boolean</all-day>
        <exclude>Boolean</exclude>
        <day>DAILY</day>
        <day>SUNDAY</day>
        <day>MONDAY</day>
        <day>TUESDAY</day>
        <day>WEDNESDAY</day>
        <day>THURSDAY</day>
        <day>FRIDAY</day>
        <day>SATURDAY</day>
        <start-time1>String</start-time1>
        <start-time2>String</start-time2>
        <uri>String</uri>
      </schedule>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </schedules>
    <name>String</name>
    <display_name>String</display_name>
    <stop-date1>String</stop-date1>
    <stop-date2>String</stop-date2>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <edit-version>Integer</edit-version>
    <created-time>Date</created-time>
    <domain-name>String</domain-name>
```


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```
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <start-date2>String</start-date2>
    <start-date1>String</start-date1>
    <uri>String</uri>
    <link>String</link>
  </scheduler>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</schedulers>
```


Get Detailed Schedulers

Retrieves a paginated list of detailed scheduler objects.

URI	/api/juniper/sd/scheduler-management/v5/detailed_schedulers
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	sdManageScheduler

Sample JSON Output:


```
{
  "output" : {
    "value" : [ {
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String",
        "last-modified-by-user-name" : "String",
        "created-time" : "Date",
        "last-modified-time" : "Date"
      },
      "display_name" : "String",
      "name" : "String",
      "update_number" : "int",
      "description" : "String",
      "start-date1" : "String",
      "stop-date1" : "String",
      "start-date2" : "String",
      "stop-date2" : "String",
      "schedules" : {
        "schedule" : [ {
          "day" : [ "DAILY", "SUNDAY", "MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY", "FRIDAY",
```


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```
"SATURDAY" ],
          "start-time1" : "String",
          "stop-time1" : "String",
          "start-time2" : "String",
          "stop-time2" : "String",
          "exclude" : "Boolean",
          "all-day" : "Boolean",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "edit-version" : "Integer",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "domain-name" : "String",
      "domain-id" : "Integer",
      "uuid" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "int"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<output>
  <value>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <display_name>String</display_name>
    <name>String</name>
    <update_number>int</update_number>
    <description>String</description>
    <start-date1>String</start-date1>
    <stop-date1>String</stop-date1>
    <start-date2>String</start-date2>
    <stop-date2>String</stop-date2>
    <schedules>
      <schedule>
        <day>DAILY</day>
        <day>SUNDAY</day>
        <day>MONDAY</day>
        <day>TUESDAY</day>
        <day>WEDNESDAY</day>
        <day>THURSDAY</day>
        <day>FRIDAY</day>
        <day>SATURDAY</day>
        <start-time1>String</start-time1>
        <stop-time1>String</stop-time1>
        <start-time2>String</start-time2>
        <stop-time2>String</stop-time2>
        <exclude>Boolean</exclude>
        <all-day>Boolean</all-day>
        <uri>String</uri>
      </schedule>
      <uri>String</uri>
    </schedules>
```


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```
    <edit-version>Integer</edit-version>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <uuid>String</uuid>
    <uri>String</uri>
  </value>
  <uri>String</uri>
  <totalSize>int</totalSize>
</output>
```

Get Schedulers by UUIDs

Retrieves detailed scheduler configurations based on a list of UUIDs.

URI	/api/juniper/sd/scheduler-management/v5/get_schedulers_by_uuids
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	sdManageScheduler

Sample JSON Input

```
{
  "input" : {
    "object_uuids" : [ "String" ],
    "flatten" : "boolean"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<input>
   <object_uuids>String</object_uuids>
   <flatten>boolean</flatten>
</input>
```

Sample JSON Output:

```
{
  "output" : {
    "value" : [ {
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String",
        "last-modified-by-user-name" : "String",
        "created-time" : "Date",
        "last-modified-time" : "Date"
      },
      "display_name" : "String",
      "name" : "String",
      "update_number" : "int",
      "description" : "String",
      "start-date1" : "String",
      "stop-date1" : "String",
      "start-date2" : "String",
      "stop-date2" : "String",
      "schedules" : {
        "schedule" : [ {
          "day" : [ "DAILY", "SUNDAY", "MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY", "FRIDAY",
"SATURDAY" ],
          "start-time1" : "String",
          "stop-time1" : "String",
          "start-time2" : "String",
          "stop-time2" : "String",
          "exclude" : "Boolean",
          "all-day" : "Boolean",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "edit-version" : "Integer",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "domain-name" : "String",
      "domain-id" : "Integer",
      "uuid" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "int"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<output>
  <value>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <display_name>String</display_name>
    <name>String</name>
    <update_number>int</update_number>
    <description>String</description>
    <start-date1>String</start-date1>
    <stop-date1>String</stop-date1>
    <start-date2>String</start-date2>
    <stop-date2>String</stop-date2>
    <schedules>
      <schedule>
        <day>DAILY</day>
        <day>SUNDAY</day>
        <day>MONDAY</day>
        <day>TUESDAY</day>
        <day>WEDNESDAY</day>
        <day>THURSDAY</day>
        <day>FRIDAY</day>
        <day>SATURDAY</day>
        <start-time1>String</start-time1>
        <stop-time1>String</stop-time1>
        <start-time2>String</start-time2>
        <stop-time2>String</stop-time2>
        <exclude>Boolean</exclude>
        <all-day>Boolean</all-day>
        <uri>String</uri>
      </schedule>
      <uri>String</uri>
    </schedules>
    <edit-version>Integer</edit-version>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <uuid>String</uuid>
    <uri>String</uri>
  </value>
  <uri>String</uri>
  <totalSize>int</totalSize>
</output>
```

Get Expired Schedulers

Retrieves a list of schedulers that have expired based on a given offset time.

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URI	/api/juniper/sd/scheduler-management/v5/get-expired-schedulers?offsetTime=long
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	sdManageScheduler

Sample JSON Output:


```
{
  "output" : {
    "value" : [ {
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String",
        "last-modified-by-user-name" : "String",
        "created-time" : "Date",
        "last-modified-time" : "Date"
      },
      "display_name" : "String",
      "name" : "String",
      "update_number" : "int",
      "description" : "String",
      "start-date1" : "String",
      "stop-date1" : "String",
      "start-date2" : "String",
      "stop-date2" : "String",
      "schedules" : {
        "schedule" : [ {
          "day" : [ "DAILY", "SUNDAY", "MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY", "FRIDAY",
"SATURDAY" ],
          "start-time1" : "String",
          "stop-time1" : "String",
          "start-time2" : "String",
          "stop-time2" : "String",
          "exclude" : "Boolean",
          "all-day" : "Boolean",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "edit-version" : "Integer",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "domain-name" : "String",
      "domain-id" : "Integer",
      "uuid" : "String",
      "uri" : "String"
```


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```
    } ],
    "uri" : "String",
    "totalSize" : "int"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<output>
  <value>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <display_name>String</display_name>
    <name>String</name>
    <update_number>int</update_number>
    <description>String</description>
    <start-date1>String</start-date1>
    <stop-date1>String</stop-date1>
    <start-date2>String</start-date2>
    <stop-date2>String</stop-date2>
    <schedules>
      <schedule>
        <day>DAILY</day>
        <day>SUNDAY</day>
        <day>MONDAY</day>
        <day>TUESDAY</day>
        <day>WEDNESDAY</day>
        <day>THURSDAY</day>
        <day>FRIDAY</day>
        <day>SATURDAY</day>
        <start-time1>String</start-time1>
        <stop-time1>String</stop-time1>
        <start-time2>String</start-time2>
        <stop-time2>String</stop-time2>
        <exclude>Boolean</exclude>
        <all-day>Boolean</all-day>
        <uri>String</uri>
      </schedule>
      <uri>String</uri>
    </schedules>
    <edit-version>Integer</edit-version>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <uuid>String</uuid>
    <uri>String</uri>
  </value>
  <uri>String</uri>
  <totalSize>int</totalSize>
</output>
```


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Delete Scheduler by String ID

Deletes a specific scheduler from the system using its string ID.

URI	/api/juniper/sd/scheduler-management/v5/schedulers/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	sdDeleteScheduler

Create New Scheduler

Creates a new scheduler in the system and provides HATEOAS links.

URI	/api/juniper/sd/scheduler-management/v5/schedulers
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	sdCreateScheduler

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Sample JSON Input

```
{
  "scheduler" : {
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "display_name" : "String",
    "name" : "String",
    "update_number" : "int",
    "description" : "String",
    "start-date1" : "String",
    "stop-date1" : "String",
    "start-date2" : "String",
    "stop-date2" : "String",
    "schedules" : {
      "schedule" : [ {
        "day" : [ "DAILY", "SUNDAY", "MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY", "FRIDAY",
"SATURDAY" ],
        "start-time1" : "String",
        "stop-time1" : "String",
        "start-time2" : "String",
        "stop-time2" : "String",
        "exclude" : "Boolean",
        "all-day" : "Boolean"
      } ]
    },
    "edit-version" : "Integer",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "uuid" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<scheduler>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <display_name>String</display_name>
  <name>String</name>
  <update_number>int</update_number>
  <description>String</description>
  <start-date1>String</start-date1>
  <stop-date1>String</stop-date1>
  <start-date2>String</start-date2>
  <stop-date2>String</stop-date2>
  <schedules>
    <schedule>
      <day>DAILY</day>
      <day>SUNDAY</day>
      <day>MONDAY</day>
      <day>TUESDAY</day>
      <day>WEDNESDAY</day>
      <day>THURSDAY</day>
      <day>FRIDAY</day>
      <day>SATURDAY</day>
      <start-time1>String</start-time1>
      <stop-time1>String</stop-time1>
      <start-time2>String</start-time2>
      <stop-time2>String</stop-time2>
```


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```
        <exclude>Boolean</exclude>
        <all-day>Boolean</all-day>
      </schedule>
    </schedules>
    <edit-version>Integer</edit-version>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <uuid>String</uuid>
</scheduler>
```

Sample JSON Output:

```
{
  "scheduler" : {
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
    "name" : "String",
    "update_number" : "int",
    "description" : "String",
    "start-date1" : "String",
    "stop-date1" : "String",
    "start-date2" : "String",
    "stop-date2" : "String",
    "schedules" : {
      "schedule" : [ {
        "day" : [ "DAILY", "SUNDAY", "MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY", "FRIDAY",
"SATURDAY" ],
        "start-time1" : "String",
        "stop-time1" : "String",
        "start-time2" : "String",
        "stop-time2" : "String",
        "exclude" : "Boolean",
        "all-day" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "edit-version" : "Integer",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "domain-name" : "String",
    "domain-id" : "Integer",
    "uuid" : "String",
    "uri" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<scheduler>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
```


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```
</id_perms>
<display_name>String</display_name>
<name>String</name>
<update_number>int</update_number>
<description>String</description>
<start-date1>String</start-date1>
<stop-date1>String</stop-date1>
<start-date2>String</start-date2>
<stop-date2>String</stop-date2>
<schedules>
  <schedule>
    <day>DAILY</day>
    <day>SUNDAY</day>
    <day>MONDAY</day>
    <day>TUESDAY</day>
    <day>WEDNESDAY</day>
    <day>THURSDAY</day>
    <day>FRIDAY</day>
    <day>SATURDAY</day>
    <start-time1>String</start-time1>
    <stop-time1>String</stop-time1>
    <start-time2>String</start-time2>
    <stop-time2>String</stop-time2>
    <exclude>Boolean</exclude>
    <all-day>Boolean</all-day>
    <uri>String</uri>
  </schedule>
  <uri>String</uri>
</schedules>
<edit-version>Integer</edit-version>
<definition_type>Hidden</definition_type>
<definition_type>Predefined</definition_type>
<definition_type>Custom</definition_type>
<definition_type>All</definition_type>
<domain-name>String</domain-name>
<domain-id>Integer</domain-id>
<uuid>String</uuid>
<uri>String</uri>
</scheduler>
```

Update Scheduler

Modifies an existing scheduler identified by its ID.

URI	/api/juniper/sd/scheduler-management/schedulers/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.scheduler-management.scheduler+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.scheduler-management.scheduler+json;version=1;charset=UTF-8

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Accept-Type	application/vnd.juniper.sd.scheduler-management.scheduler+xml;version=1;q=0.01 application/vnd.juniper.sd.scheduler-management.scheduler+json;version=1;q=0.01
Access-Control	sdModifyScheduler

Sample JSON Input

```
{
  "scheduler" : {
    "name" : "String",
    "description" : "String",
    "start-date1" : "String",
    "stop-date1" : "String",
    "start-date2" : "String",
    "stop-date2" : "String",
    "schedules" : {
      "schedule" : [ {
        "day" : [ "DAILY", "SUNDAY", "MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY", "FRIDAY",
"SATURDAY" ],
        "start-time1" : "String",
        "stop-time1" : "String",
        "start-time2" : "String",
        "stop-time2" : "String",
        "exclude" : "Boolean",
        "all-day" : "Boolean"
      } ]
    },
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id" : "Integer"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<scheduler>
  <name>String</name>
  <description>String</description>
  <start-date1>String</start-date1>
  <stop-date1>String</stop-date1>
  <start-date2>String</start-date2>
  <stop-date2>String</stop-date2>
  <schedules>
    <schedule>
      <day>DAILY</day>
      <day>SUNDAY</day>
      <day>MONDAY</day>
      <day>TUESDAY</day>
      <day>WEDNESDAY</day>
      <day>THURSDAY</day>
      <day>FRIDAY</day>
      <day>SATURDAY</day>
      <start-time1>String</start-time1>
      <stop-time1>String</stop-time1>
      <start-time2>String</start-time2>
      <stop-time2>String</stop-time2>
      <exclude>Boolean</exclude>
      <all-day>Boolean</all-day>
```


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```
    </schedule>
  </schedules>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <id>Integer</id>
</scheduler>
```

Sample JSON Output:

```
{
  "scheduler" : {
    "name" : "String",
    "description" : "String",
    "start-date1" : "String",
    "stop-date1" : "String",
    "start-date2" : "String",
    "stop-date2" : "String",
    "schedules" : {
      "schedule" : [ {
        "day" : [ "DAILY", "SUNDAY", "MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY", "FRIDAY",
"SATURDAY" ],
        "start-time1" : "String",
        "stop-time1" : "String",
        "start-time2" : "String",
        "stop-time2" : "String",
        "exclude" : "Boolean",
        "all-day" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "uri" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<scheduler>
  <name>String</name>
  <description>String</description>
  <start-date1>String</start-date1>
  <stop-date1>String</stop-date1>
  <start-date2>String</start-date2>
  <stop-date2>String</stop-date2>
  <schedules>
    <schedule>
      <day>DAILY</day>
      <day>SUNDAY</day>
      <day>MONDAY</day>
      <day>TUESDAY</day>
      <day>WEDNESDAY</day>
      <day>THURSDAY</day>
      <day>FRIDAY</day>
      <day>SATURDAY</day>
      <start-time1>String</start-time1>
```


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```
        <stop-time1>String</stop-time1>
        <start-time2>String</start-time2>
        <stop-time2>String</stop-time2>
        <exclude>Boolean</exclude>
        <all-day>Boolean</all-day>
        <uri>String</uri>
      </schedule>
      <uri>String</uri>
    </schedules>
    <edit-version>Integer</edit-version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <id>Integer</id>
    <uri>String</uri>
  </scheduler>
```


Retrieve Scheduler by ID

Fetches the complete detailed configuration of a specific scheduler by its ID.

URI	/api/juniper/sd/scheduler-management/schedulers/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.scheduler-management.scheduler+xml;version=1;q=0.01 application/vnd.juniper.sd.scheduler-management.scheduler+json;version=1;q=0.01
Access-Control	sdManageScheduler

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Sample JSON Output:


```
{
  "scheduler" : {
    "name" : "String",
    "description" : "String",
    "start-date1" : "String",
    "stop-date1" : "String",
    "start-date2" : "String",
    "stop-date2" : "String",
    "schedules" : {
      "schedule" : [ {
        "day" : [ "DAILY", "SUNDAY", "MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY", "FRIDAY",
"SATURDAY" ],
        "start-time1" : "String",
        "stop-time1" : "String",
        "start-time2" : "String",
        "stop-time2" : "String",
        "exclude" : "Boolean",
        "all-day" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "uri" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<scheduler>
  <name>String</name>
  <description>String</description>
  <start-date1>String</start-date1>
  <stop-date1>String</stop-date1>
  <start-date2>String</start-date2>
  <stop-date2>String</stop-date2>
  <schedules>
    <schedule>
      <day>DAILY</day>
      <day>SUNDAY</day>
      <day>MONDAY</day>
      <day>TUESDAY</day>
      <day>WEDNESDAY</day>
      <day>THURSDAY</day>
      <day>FRIDAY</day>
      <day>SATURDAY</day>
      <start-time1>String</start-time1>
      <stop-time1>String</stop-time1>
      <start-time2>String</start-time2>
      <stop-time2>String</stop-time2>
      <exclude>Boolean</exclude>
      <all-day>Boolean</all-day>
      <uri>String</uri>
    </schedule>
    <uri>String</uri>
  </schedules>
```


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```
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <uri>String</uri>
</scheduler>
```

Retrieve All Scheduler References

Fetches a paginated list of references to all configured schedulers.

URI	/api/juniper/sd/scheduler-management/schedulers
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.scheduler-management.schedulers+xml;version=1;q=0.01 application/vnd.juniper.sd.scheduler-management.schedulers+json;version=1;q=0.01
Access-Control	sdManageScheduler

Sample JSON Output:

```
{
  "schedulers" : {
    "scheduler" : [ {
      "name" : "String",
      "description" : "String",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "global" : "String",
      "id" : "Integer",
      "uri" : "String",
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "int"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<schedulers>
  <scheduler>
    <name>String</name>
    <description>String</description>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <global>String</global>
    <id>Integer</id>
    <uri>String</uri>
    <link>String</link>
  </scheduler>
  <uri>String</uri>
  <totalSize>int</totalSize>
</schedulers>
```

Delete Scheduler

Deletes a specific scheduler from the system by its ID.

URI	/api/juniper/sd/scheduler-management/schedulers/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	sdDeleteScheduler

Create New Scheduler

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Creates a new scheduler in the system.

URI	/api/juniper/sd/scheduler-management/schedulers
HTTP method	POST
Content-Type	application/vnd.juniper.sd.scheduler-management.scheduler+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.scheduler-management.scheduler+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.scheduler-management.scheduler+xml;version=1;q=0.01 application/vnd.juniper.sd.scheduler-management.scheduler+json;version=1;q=0.01
Access-Control	sdCreateScheduler

Sample JSON Input

```
{
  "scheduler" : {
    "name" : "String",
    "description" : "String",
    "start-date1" : "String",
    "stop-date1" : "String",
    "start-date2" : "String",
    "stop-date2" : "String",
    "schedules" : {
      "schedule" : [ {
        "day" : [ "DAILY", "SUNDAY", "MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY", "FRIDAY",
"SATURDAY" ],
        "start-time1" : "String",
        "stop-time1" : "String",
        "start-time2" : "String",
        "stop-time2" : "String",
        "exclude" : "Boolean",
        "all-day" : "Boolean"
      } ]
    },
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id" : "Integer"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<scheduler>
  <name>String</name>
  <description>String</description>
  <start-date1>String</start-date1>
  <stop-date1>String</stop-date1>
  <start-date2>String</start-date2>
  <stop-date2>String</stop-date2>
  <schedules>
    <schedule>
      <day>DAILY</day>
      <day>SUNDAY</day>
      <day>MONDAY</day>
      <day>TUESDAY</day>
      <day>WEDNESDAY</day>
      <day>THURSDAY</day>
      <day>FRIDAY</day>
      <day>SATURDAY</day>
      <start-time1>String</start-time1>
      <stop-time1>String</stop-time1>
      <start-time2>String</start-time2>
      <stop-time2>String</stop-time2>
      <exclude>Boolean</exclude>
      <all-day>Boolean</all-day>
    </schedule>
  </schedules>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <id>Integer</id>
</scheduler>
```

Sample JSON Output:

```
{
  "scheduler" : {
    "name" : "String",
    "description" : "String",
    "start-date1" : "String",
    "stop-date1" : "String",
    "start-date2" : "String",
    "stop-date2" : "String",
    "schedules" : {
      "schedule" : [ {
        "day" : [ "DAILY", "SUNDAY", "MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY", "FRIDAY",
"SATURDAY" ],
        "start-time1" : "String",
        "stop-time1" : "String",
        "start-time2" : "String",
        "stop-time2" : "String",
        "exclude" : "Boolean",
        "all-day" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
```


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```
    "id" : "Integer",
    "uri" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<scheduler>
  <name>String</name>
  <description>String</description>
  <start-date1>String</start-date1>
  <stop-date1>String</stop-date1>
  <start-date2>String</start-date2>
  <stop-date2>String</stop-date2>
  <schedules>
    <schedule>
      <day>DAILY</day>
      <day>SUNDAY</day>
      <day>MONDAY</day>
      <day>TUESDAY</day>
      <day>WEDNESDAY</day>
      <day>THURSDAY</day>
      <day>FRIDAY</day>
      <day>SATURDAY</day>
      <start-time1>String</start-time1>
      <stop-time1>String</stop-time1>
      <start-time2>String</start-time2>
      <stop-time2>String</stop-time2>
      <exclude>Boolean</exclude>
      <all-day>Boolean</all-day>
      <uri>String</uri>
    </schedule>
    <uri>String</uri>
  </schedules>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <uri>String</uri>
</scheduler>
```


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CHAPTER 36

Security Director Objects

The following opertions can be performed using Secuirty Director Security Director Objects

Retrieve Top N Devices by Session Count

Fetches the top N devices ranked by various session count metrics within a specified time range.

URI	/api/juniper/seci/devicemonitor-management/sessions/top-zones?startTime=long&endTime=long&maxResults=int&rankBy=SessionCountType&deviceValuesAggregationFunc=AggregationFunc&deviceIds[]=List&sampleValues=Boolean
HTTP method	GET
Content-Type	None
Accept-Type	application/json
Access-Control	null

Sample JSON Output:


```
{
  "top-zones" : {
    "results" : [ {
      "rank" : "int",
      "deviceInfo" : {
        "deviceId" : "Integer",
        "hostName" : "String",
        "ipAddress" : "String"
      },
      "zoneName" : "String",
      "totalSessions" : "int",
      "incomingSessions" : "Integer",
      "outgoingSessions" : "Integer",
      "samples" : [ {
        "sampleTime" : "long",
```


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```
      "totalSessions" : "int",
      "incomingSessions" : "Integer",
      "outgoingSessions" : "Integer"
    } ]
  } ]
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<top-zones>
  <results>
    <rank>int</rank>
    <deviceInfo>
      <deviceId>Integer</deviceId>
      <hostName>String</hostName>
      <ipAddress>String</ipAddress>
    </deviceInfo>
    <zoneName>String</zoneName>
    <totalSessions>int</totalSessions>
    <incomingSessions>Integer</incomingSessions>
    <outgoingSessions>Integer</outgoingSessions>
    <samples>
      <sampleTime>long</sampleTime>
      <totalSessions>int</totalSessions>
      <incomingSessions>Integer</incomingSessions>
      <outgoingSessions>Integer</outgoingSessions>
    </samples>
  </results>
</top-zones>
```


Retrieve Top N Zones by Session Count

Fetches the top N network zones ranked by various session count metrics within a specified time range.

URI	/api/juniper/seci/devicemonitor-management/sessions/top-devices?startTime=long&endTime=long&maxResults=int&rankBy=SessionCountType&deviceValuesAggregationFunc=AggregationFunc&deviceIds[]=List&sampleValues=Boolean
HTTP method	GET
Content-Type	None
Accept-Type	application/json
Access-Control	null

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Sample JSON Output:


```
{
  "top-devices" : {
    "results" : [ {
      "rank" : "int",
      "deviceInfo" : {
        "deviceId" : "Integer",
        "hostName" : "String",
        "ipAddress" : "String"
      },
      "zoneName" : "String",
      "totalSessions" : "int",
      "incomingSessions" : "Integer",
      "outgoingSessions" : "Integer",
      "samples" : [ {
        "sampleTime" : "long",
        "totalSessions" : "int",
        "incomingSessions" : "Integer",
        "outgoingSessions" : "Integer"
      } ]
    } ]
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<top-devices>
  <results>
    <rank>int</rank>
    <deviceInfo>
      <deviceId>Integer</deviceId>
      <hostName>String</hostName>
      <ipAddress>String</ipAddress>
    </deviceInfo>
    <zoneName>String</zoneName>
    <totalSessions>int</totalSessions>
    <incomingSessions>Integer</incomingSessions>
    <outgoingSessions>Integer</outgoingSessions>
    <samples>
      <sampleTime>long</sampleTime>
      <totalSessions>int</totalSessions>
      <incomingSessions>Integer</incomingSessions>
      <outgoingSessions>Integer</outgoingSessions>
    </samples>
  </results>
</top-devices>
```


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CHAPTER 37

Security Management RESTful Web Services

The following opertions can be performed using Secuirty Director Security Management RESTful Web Services

Update DNS Security Policy

Modifies an existing DNS security policy identified by its ID.

URI	/api/juniper/sd/dns-security-management/dns-policies/{id}
HTTP method	PUT
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	modifyDNSPolicy

Sample JSON Input

```
{
  "dns-security-policy" : {
    "id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "name" : "String",
    "uuid" : "String",
    "moid" : "String",
    "from-zone" : "String",
```


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```
    "to-zone" : "String",
    "from-zone-id" : "Integer",
    "to-zone-id" : "Integer",
    "dns-security-profile" : {
      "id" : "Integer",
      "name" : "String"
    },
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "name" : "String",
        "ip" : "String",
        "device-type" : "String"
      } ]
    }
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<dns-security-policy>
  <id>Integer</id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <name>String</name>
  <uuid>String</uuid>
  <moid>String</moid>
  <from-zone>String</from-zone>
  <to-zone>String</to-zone>
  <from-zone-id>Integer</from-zone-id>
  <to-zone-id>Integer</to-zone-id>
  <dns-security-profile>
    <id>Integer</id>
    <name>String</name>
  </dns-security-profile>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
      <device-type>String</device-type>
    </device-lite>
  </device-list>
</dns-security-policy>
```


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Sample JSON Output:


```
{
  "dns-security-policy" : {
    "id" : "Integer",
    "domain-id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "name" : "String",
    "uuid" : "String",
    "moid" : "String",
    "from-zone" : "String",
    "to-zone" : "String",
    "from-zone-id" : "Integer",
    "to-zone-id" : "Integer",
    "dns-security-profile" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "ip" : "String",
        "uri" : "String",
        "link" : "String",
        "device-type" : "String"
      } ],
      "uri" : "String"
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dns-security-policy>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
```


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```
<lastModifiedTime>Date</lastModifiedTime>
<version>Integer</version>
<owningSystem>String</owningSystem>
<name>String</name>
<uuid>String</uuid>
<moid>String</moid>
<from-zone>String</from-zone>
<to-zone>String</to-zone>
<from-zone-id>Integer</from-zone-id>
<to-zone-id>Integer</to-zone-id>
<dns-security-profile>
  <id>Integer</id>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <domain-name>String</domain-name>
  <uri>String</uri>
</dns-security-profile>
<device-list>
  <device-lite>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <domain-name>String</domain-name>
    <ip>String</ip>
    <uri>String</uri>
    <link>String</link>
    <device-type>String</device-type>
  </device-lite>
  <uri>String</uri>
</device-list>
</dns-security-policy>
```

Retrieve DNS Security Policy by ID

Fetches the complete detailed configuration of a specific DNS security policy by its ID.

URI	/api/juniper/sd/dns-security-management/dns-policies/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageDNSPolicy

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Sample JSON Output:


```
{
  "dns-security-policy" : {
    "id" : "Integer",
    "domain-id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "name" : "String",
    "uuid" : "String",
    "moid" : "String",
    "from-zone" : "String",
    "to-zone" : "String",
    "from-zone-id" : "Integer",
    "to-zone-id" : "Integer",
    "dns-security-profile" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "ip" : "String",
        "uri" : "String",
        "link" : "String",
        "device-type" : "String"
      } ],
      "uri" : "String"
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dns-security-policy>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
```


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```
<lastModifiedTime>Date</lastModifiedTime>
<version>Integer</version>
<owningSystem>String</owningSystem>
<name>String</name>
<uuid>String</uuid>
<moid>String</moid>
<from-zone>String</from-zone>
<to-zone>String</to-zone>
<from-zone-id>Integer</from-zone-id>
<to-zone-id>Integer</to-zone-id>
<dns-security-profile>
  <id>Integer</id>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <domain-name>String</domain-name>
  <uri>String</uri>
</dns-security-profile>
<device-list>
  <device-lite>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <domain-name>String</domain-name>
    <ip>String</ip>
    <uri>String</uri>
    <link>String</link>
    <device-type>String</device-type>
  </device-lite>
  <uri>String</uri>
</device-list>
</dns-security-policy>
```

Retrieve All DNS Security Policies

Fetches a paginated list of all configured DNS security policies.

URI	/api/juniper/sd/dns-security-management/dns-policies
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageDNSPolicy

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Sample JSON Output:


```
{
  "dns-security-policies" : {
    "dns-security-policy" : [ {
      "id" : "Integer",
      "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
      "domain-id" : "Integer",
      "editVersion" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "createdByUserName" : "String",
      "lastModifiedByUserName" : "String",
      "createdTime" : "Date",
      "lastModifiedTime" : "Date",
      "version" : "Integer",
      "owningSystem" : "String",
      "name" : "String",
      "from-zone" : "String",
      "to-zone" : "String",
      "uuid" : "String",
      "moid" : "String",
      "dns-security-profile" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "device-list" : {
        "device-lite" : [ {
          "id" : "Integer",
          "domain-id" : "Integer",
          "name" : "String",
          "domain-name" : "String",
          "ip" : "String",
          "uri" : "String",
          "link" : "String"
        } ],
        "uri" : "String"
      }
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dns-security-policies>
  <dns-security-policy>
    <id>Integer</id>
    <publish-state>Not Published</publish-state>
    <publish-state>Partially Published</publish-state>
    <publish-state>Published</publish-state>
    <publish-state>Re-Publish Required</publish-state>
    <publish-state>Deleted</publish-state>
    <domain-id>Integer</domain-id>
    <editVersion>Integer</editVersion>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <createdByUserName>String</createdByUserName>
```


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```
    <lastModifiedByUserName>String</lastModifiedByUserName>
    <createdTime>Date</createdTime>
    <lastModifiedTime>Date</lastModifiedTime>
    <version>Integer</version>
    <owningSystem>String</owningSystem>
    <name>String</name>
    <from-zone>String</from-zone>
    <to-zone>String</to-zone>
    <uuid>String</uuid>
    <moid>String</moid>
    <dns-security-profile>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
    </dns-security-profile>
    <device-list>
      <device-lite>
        <id>Integer</id>
        <domain-id>Integer</domain-id>
        <name>String</name>
        <domain-name>String</domain-name>
        <ip>String</ip>
        <uri>String</uri>
        <link>String</link>
      </device-lite>
      <uri>String</uri>
    </device-list>
  </dns-security-policy>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</dns-security-policies>
```

Delete DNS Security Policy

Deletes a specific DNS security policy from the system by its ID.

URI	/api/juniper/sd/dns-security-management/dns-policies/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteDNSPolicy

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Create DNS Security Policy

Creates a new DNS security policy in the system.

URI	/api/juniper/sd/dns-security-management/dns-policies
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	createDNSPolicy

Sample JSON Input

```
{
  "dns-security-policy" : {
    "id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "name" : "String",
    "uuid" : "String",
    "moid" : "String",
    "from-zone" : "String",
    "to-zone" : "String",
    "from-zone-id" : "Integer",
    "to-zone-id" : "Integer",
    "dns-security-profile" : {
      "id" : "Integer",
      "name" : "String"
    },
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "name" : "String",
        "ip" : "String",
        "device-type" : "String"
      } ]
    }
```


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```
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<dns-security-policy>
  <id>Integer</id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <name>String</name>
  <uuid>String</uuid>
  <moid>String</moid>
  <from-zone>String</from-zone>
  <to-zone>String</to-zone>
  <from-zone-id>Integer</from-zone-id>
  <to-zone-id>Integer</to-zone-id>
  <dns-security-profile>
    <id>Integer</id>
    <name>String</name>
  </dns-security-profile>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
      <device-type>String</device-type>
    </device-lite>
  </device-list>
</dns-security-policy>
```

Sample JSON Output:

```
{
 "dns-security-policy" : {
  "id" : "Integer",
  "domain-id" : "Integer",
  "editVersion" : "Integer",
  "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
  "createdByUserName" : "String",
  "lastModifiedByUserName" : "String",
  "createdTime" : "Date",
  "lastModifiedTime" : "Date",
  "version" : "Integer",
```


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```
    "owningSystem" : "String",
    "name" : "String",
    "uuid" : "String",
    "moid" : "String",
    "from-zone" : "String",
    "to-zone" : "String",
    "from-zone-id" : "Integer",
    "to-zone-id" : "Integer",
    "dns-security-profile" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "ip" : "String",
        "uri" : "String",
        "link" : "String",
        "device-type" : "String"
      } ],
      "uri" : "String"
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dns-security-policy>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <name>String</name>
  <uuid>String</uuid>
  <moid>String</moid>
  <from-zone>String</from-zone>
  <to-zone>String</to-zone>
  <from-zone-id>Integer</from-zone-id>
  <to-zone-id>Integer</to-zone-id>
  <dns-security-profile>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
```


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```
    <domain-name>String</domain-name>
    <uri>String</uri>
  </dns-security-profile>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <ip>String</ip>
      <uri>String</uri>
      <link>String</link>
      <device-type>String</device-type>
    </device-lite>
    <uri>String</uri>
  </device-list>
</dns-security-policy>
```

Publish DNS Security Policy

Publishes a DNS security policy or a set of DNS security policies to applicable devices.

URI	/api/juniper/sd/dns-security-management/provisioning/publish-dns?update=boolean
HTTP method	POST
Content-Type	application/vnd.juniper.sd.dns-security-management.publish+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.dns-security-management.publish+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.fwpolicy-provisioning.monitorable-task-instances+xml;version=1;q=0.01 application/vnd.juniper.sd.fwpolicy-provisioning.monitorable-task-instances+json;version=1;q=0.01
Access-Control	PublishDNSPolicy

Sample JSON Input

```
{
  "publish" : {
    "policy-ids" : {
      "policy-id" : [ "Integer" ]
    },
    "delete-oldest-snapshot" : "Boolean"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<publish>
  <policy-ids>
    <policy-id>Integer</policy-id>
  </policy-ids>
  <delete-oldest-snapshot>Boolean</delete-oldest-snapshot>
</publish>
```

Sample JSON Output:


```
{
  "monitorable-task-instances" : {
    "monitorable-task-instance-managed-object" : [ {
      "supports-recurrence" : "Boolean",
      "repeat-cron" : "String",
      "mo-state" : "String",
      "schedule-string" : "String",
      "job-status" : [ "UNDETERMINED", "INCOMPLETE", "FAILURE", "SUCCESS", "CANCELLED",
"DEPRECATED" ],
      "job-parameter-data-string" : "String",
      "gui-name" : "String",
      "job-state" : [ "SCHEDULED", "QUEUED", "STARTING", "INPROGRESS", "DONE", "CANCELLING",
"DISABLED" ],
      "start-time-string-rest" : "String",
      "device-image-name" : "String",
      "end-time" : "Date",
      "task-name" : "String",
      "service-name" : "String",
      "id" : "String",
      "start-time" : "Date",
      "operation" : "String",
      "details" : "String",
      "details-action-type" : "String",
      "name" : "String",
      "scheduled-start-time-string-rest" : "String",
      "retry-of-id" : "Integer",
      "scheduled-start-time" : "Date",
      "script-bundle-selected" : "String",
      "details-action-url" : "String",
      "end-time-string-rest" : "String",
      "job-params-action-url" : "String",
      "percent-complete" : "Double",
      "is-enabled" : "Boolean",
      "retry-group-id" : "Integer",
      "job-params-summary" : "String",
      "complete-time" : "Integer",
      "user" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<monitorable-task-instances>
  <monitorable-task-instance-managed-object>
    <supports-recurrence>Boolean</supports-recurrence>
    <repeat-cron>String</repeat-cron>
    <mo-state>String</mo-state>
    <schedule-string>String</schedule-string>
    <job-status>UNDETERMINED</job-status>
    <job-status>INCOMPLETE</job-status>
    <job-status>FAILURE</job-status>
    <job-status>SUCCESS</job-status>
    <job-status>CANCELLED</job-status>
    <job-status>DEPRECATED</job-status>
    <job-parameter-data-string>String</job-parameter-data-string>
    <gui-name>String</gui-name>
    <job-state>SCHEDULED</job-state>
    <job-state>QUEUED</job-state>
    <job-state>STARTING</job-state>
    <job-state>INPROGRESS</job-state>
    <job-state>DONE</job-state>
    <job-state>CANCELLING</job-state>
    <job-state>DISABLED</job-state>
    <start-time-string-rest>String</start-time-string-rest>
    <device-image-name>String</device-image-name>
    <end-time>Date</end-time>
    <task-name>String</task-name>
    <service-name>String</service-name>
    <id>String</id>
    <start-time>Date</start-time>
    <operation>String</operation>
    <details>String</details>
    <details-action-type>String</details-action-type>
    <name>String</name>
    <scheduled-start-time-string-rest>String</scheduled-start-time-string-rest>
    <retry-of-id>Integer</retry-of-id>
    <scheduled-start-time>Date</scheduled-start-time>
    <script-bundle-selected>String</script-bundle-selected>
    <details-action-url>String</details-action-url>
    <end-time-string-rest>String</end-time-string-rest>
    <job-params-action-url>String</job-params-action-url>
    <percent-complete>Double</percent-complete>
    <is-enabled>Boolean</is-enabled>
    <retry-group-id>Integer</retry-group-id>
    <job-params-summary>String</job-params-summary>
    <complete-time>Integer</complete-time>
    <user>String</user>
    <uri>String</uri>
  </monitorable-task-instance-managed-object>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</monitorable-task-instances>
```

Update DNS Security Profile

Modifies an existing DNS security profile identified by its ID.

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URI	/api/juniper/sd/dns-security-management/dns-profiles/{id}
HTTP method	PUT
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	modifyDNSProfile

Sample JSON Input


```
{
  "dns-security-profile" : {
    "id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "name" : "String",
    "uuid" : "String",
    "moid" : "String",
    "cache-TTL" : "Boolean",
    "ttl-benign" : "Integer",
    "ttl-c2" : "Integer",
    "dnsDGADetection" : "Boolean",
    "dga-action" : "String",
    "dga-log" : "String",
    "verdict-timeout" : "Integer",
    "dga-fallbackLog" : "Boolean",
    "dnsTunnelDetection" : "Boolean",
    "tunnel-action" : "String",
    "tunnel-log" : "String",
    "inspection-depth" : "Integer",
    "tunnel-fallbackLog" : "Boolean",
    "etiDetection" : "Boolean",
    "eti-action" : "String",
    "eti-log" : "String",
    "eti-fallbackLog" : "Boolean"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<dns-security-profile>
  <id>Integer</id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <name>String</name>
  <uuid>String</uuid>
  <moid>String</moid>
  <cache-TTL>Boolean</cache-TTL>
  <ttl-benign>Integer</ttl-benign>
  <ttl-c2>Integer</ttl-c2>
  <dnsDGADetection>Boolean</dnsDGADetection>
  <dga-action>String</dga-action>
  <dga-log>String</dga-log>
  <verdict-timeout>Integer</verdict-timeout>
  <dga-fallbackLog>Boolean</dga-fallbackLog>
  <dnsTunnelDetection>Boolean</dnsTunnelDetection>
  <tunnel-action>String</tunnel-action>
  <tunnel-log>String</tunnel-log>
  <inspection-depth>Integer</inspection-depth>
  <tunnel-fallbackLog>Boolean</tunnel-fallbackLog>
  <etiDetection>Boolean</etiDetection>
  <eti-action>String</eti-action>
  <eti-log>String</eti-log>
  <eti-fallbackLog>Boolean</eti-fallbackLog>
</dns-security-profile>
```

Sample JSON Output:

```
{
 "dns-security-profile" : {
  "id" : "Integer",
  "domain-id" : "Integer",
  "editVersion" : "Integer",
  "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "createdByUserName" : "String",
  "lastModifiedByUserName" : "String",
  "createdTime" : "Date",
  "lastModifiedTime" : "Date",
  "version" : "Integer",
  "owningSystem" : "String",
  "name" : "String",
  "uuid" : "String",
  "moid" : "String",
  "cache-TTL" : "Boolean",
  "ttl-benign" : "Integer",
  "ttl-c2" : "Integer",
  "dnsDGADetection" : "Boolean",
  "dga-action" : "String",
  "dga-log" : "String",
  "verdict-timeout" : "Integer",
  "dga-fallbackLog" : "Boolean",
  "dnsTunnelDetection" : "Boolean",
  "tunnel-action" : "String",
  "tunnel-log" : "String",
```


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```
    "inspection-depth" : "Integer",
    "tunnel-fallbackLog" : "Boolean",
    "etiDetection" : "Boolean",
    "eti-action" : "String",
    "eti-log" : "String",
    "eti-fallbackLog" : "Boolean",
    "uri" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dns-security-profile>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <name>String</name>
  <uuid>String</uuid>
  <moid>String</moid>
  <cache-TTL>Boolean</cache-TTL>
  <ttl-benign>Integer</ttl-benign>
  <ttl-c2>Integer</ttl-c2>
  <dnsDGADetection>Boolean</dnsDGADetection>
  <dga-action>String</dga-action>
  <dga-log>String</dga-log>
  <verdict-timeout>Integer</verdict-timeout>
  <dga-fallbackLog>Boolean</dga-fallbackLog>
  <dnsTunnelDetection>Boolean</dnsTunnelDetection>
  <tunnel-action>String</tunnel-action>
  <tunnel-log>String</tunnel-log>
  <inspection-depth>Integer</inspection-depth>
  <tunnel-fallbackLog>Boolean</tunnel-fallbackLog>
  <etiDetection>Boolean</etiDetection>
  <eti-action>String</eti-action>
  <eti-log>String</eti-log>
  <eti-fallbackLog>Boolean</eti-fallbackLog>
  <uri>String</uri>
</dns-security-profile>
```


Retrieve DNS Security Profile by ID

Fetches the complete detailed configuration of a specific DNS security profile by its ID.

URI	/api/juniper/sd/dns-security-management/dns-profiles/{id}

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HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageDNSProfile

Sample JSON Output:


```
{
  "dns-security-profile" : {
    "id" : "Integer",
    "domain-id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "name" : "String",
    "uuid" : "String",
    "moid" : "String",
    "cache-TTL" : "Boolean",
    "ttl-benign" : "Integer",
    "ttl-c2" : "Integer",
    "dnsDGADetection" : "Boolean",
    "dga-action" : "String",
    "dga-log" : "String",
    "verdict-timeout" : "Integer",
    "dga-fallbackLog" : "Boolean",
    "dnsTunnelDetection" : "Boolean",
    "tunnel-action" : "String",
    "tunnel-log" : "String",
    "inspection-depth" : "Integer",
    "tunnel-fallbackLog" : "Boolean",
    "etiDetection" : "Boolean",
    "eti-action" : "String",
    "eti-log" : "String",
    "eti-fallbackLog" : "Boolean",
    "uri" : "String"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<dns-security-profile>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <name>String</name>
  <uuid>String</uuid>
  <moid>String</moid>
  <cache-TTL>Boolean</cache-TTL>
  <ttl-benign>Integer</ttl-benign>
  <ttl-c2>Integer</ttl-c2>
  <dnsDGADetection>Boolean</dnsDGADetection>
  <dga-action>String</dga-action>
  <dga-log>String</dga-log>
  <verdict-timeout>Integer</verdict-timeout>
  <dga-fallbackLog>Boolean</dga-fallbackLog>
  <dnsTunnelDetection>Boolean</dnsTunnelDetection>
  <tunnel-action>String</tunnel-action>
  <tunnel-log>String</tunnel-log>
  <inspection-depth>Integer</inspection-depth>
  <tunnel-fallbackLog>Boolean</tunnel-fallbackLog>
  <etiDetection>Boolean</etiDetection>
  <eti-action>String</eti-action>
  <eti-log>String</eti-log>
  <eti-fallbackLog>Boolean</eti-fallbackLog>
  <uri>String</uri>
</dns-security-profile>
```

Retrieve All DNS Security Profiles

Fetches a paginated list of all configured DNS security profiles.

URI	/api/juniper/sd/dns-security-management/dns-profiles
HTTP method	GET
Content-Type	None

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Accept-Type	application/json application/xml
Access-Control	manageDNSProfile

Sample JSON Output:


```
{
  "dns-security-profiles" : {
    "dns-security-profile" : [ {
      "id" : "Integer",
      "domain-id" : "Integer",
      "editVersion" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "createdByUserName" : "String",
      "lastModifiedByUserName" : "String",
      "createdTime" : "Date",
      "lastModifiedTime" : "Date",
      "version" : "Integer",
      "owningSystem" : "String",
      "name" : "String",
      "cache-TTL" : "Boolean",
      "ttl-benign" : "Integer",
      "ttl-c2" : "Integer",
      "dnsDGADetection" : "Boolean",
      "dga-action" : "String",
      "dga-log" : "String",
      "verdict-timeout" : "Integer",
      "dga-fallbackLog" : "Boolean",
      "dnsTunnelDetection" : "Boolean",
      "tunnel-action" : "String",
      "tunnel-log" : "String",
      "inspection-depth" : "Integer",
      "tunnel-fallbackLog" : "Boolean",
      "etiDetection" : "Boolean",
      "eti-action" : "String",
      "eti-log" : "String",
      "eti-fallbackLog" : "Boolean",
      "uuid" : "String",
      "moid" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dns-security-profiles>
  <dns-security-profile>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <editVersion>Integer</editVersion>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <createdByUserName>String</createdByUserName>
    <lastModifiedByUserName>String</lastModifiedByUserName>
    <createdTime>Date</createdTime>
```


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```
    <lastModifiedTime>Date</lastModifiedTime>
    <version>Integer</version>
    <owningSystem>String</owningSystem>
    <name>String</name>
    <cache-TTL>Boolean</cache-TTL>
    <ttl-benign>Integer</ttl-benign>
    <ttl-c2>Integer</ttl-c2>
    <dnsDGADetection>Boolean</dnsDGADetection>
    <dga-action>String</dga-action>
    <dga-log>String</dga-log>
    <verdict-timeout>Integer</verdict-timeout>
    <dga-fallbackLog>Boolean</dga-fallbackLog>
    <dnsTunnelDetection>Boolean</dnsTunnelDetection>
    <tunnel-action>String</tunnel-action>
    <tunnel-log>String</tunnel-log>
    <inspection-depth>Integer</inspection-depth>
    <tunnel-fallbackLog>Boolean</tunnel-fallbackLog>
    <etiDetection>Boolean</etiDetection>
    <eti-action>String</eti-action>
    <eti-log>String</eti-log>
    <eti-fallbackLog>Boolean</eti-fallbackLog>
    <uuid>String</uuid>
    <moid>String</moid>
  </dns-security-profile>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</dns-security-profiles>
```


Delete DNS Security Profile

Deletes a specific DNS security profile from the system by its ID.

URI	/api/juniper/sd/dns-security-management/dns-profiles/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteDNSProfile

Create DNS Security Profile

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Creates a new DNS security profile in the system.

URI	/api/juniper/sd/dns-security-management/dns-profiles
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	createDNSProfile

Sample JSON Input


```
{
  "dns-security-profile" : {
    "id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "name" : "String",
    "uuid" : "String",
    "moid" : "String",
    "cache-TTL" : "Boolean",
    "ttl-benign" : "Integer",
    "ttl-c2" : "Integer",
    "dnsDGADetection" : "Boolean",
    "dga-action" : "String",
    "dga-log" : "String",
    "verdict-timeout" : "Integer",
    "dga-fallbackLog" : "Boolean",
    "dnsTunnelDetection" : "Boolean",
    "tunnel-action" : "String",
    "tunnel-log" : "String",
    "inspection-depth" : "Integer",
    "tunnel-fallbackLog" : "Boolean",
    "etiDetection" : "Boolean",
    "eti-action" : "String",
    "eti-log" : "String",
    "eti-fallbackLog" : "Boolean"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<dns-security-profile>
  <id>Integer</id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <name>String</name>
  <uuid>String</uuid>
  <moid>String</moid>
  <cache-TTL>Boolean</cache-TTL>
  <ttl-benign>Integer</ttl-benign>
  <ttl-c2>Integer</ttl-c2>
  <dnsDGADetection>Boolean</dnsDGADetection>
  <dga-action>String</dga-action>
  <dga-log>String</dga-log>
  <verdict-timeout>Integer</verdict-timeout>
  <dga-fallbackLog>Boolean</dga-fallbackLog>
  <dnsTunnelDetection>Boolean</dnsTunnelDetection>
  <tunnel-action>String</tunnel-action>
  <tunnel-log>String</tunnel-log>
  <inspection-depth>Integer</inspection-depth>
  <tunnel-fallbackLog>Boolean</tunnel-fallbackLog>
  <etiDetection>Boolean</etiDetection>
  <eti-action>String</eti-action>
  <eti-log>String</eti-log>
  <eti-fallbackLog>Boolean</eti-fallbackLog>
</dns-security-profile>
```

Sample JSON Output:

```
{
 "dns-security-profile" : {
  "id" : "Integer",
  "domain-id" : "Integer",
  "editVersion" : "Integer",
  "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "createdByUserName" : "String",
  "lastModifiedByUserName" : "String",
  "createdTime" : "Date",
  "lastModifiedTime" : "Date",
  "version" : "Integer",
  "owningSystem" : "String",
  "name" : "String",
  "uuid" : "String",
  "moid" : "String",
  "cache-TTL" : "Boolean",
  "ttl-benign" : "Integer",
  "ttl-c2" : "Integer",
  "dnsDGADetection" : "Boolean",
  "dga-action" : "String",
  "dga-log" : "String",
  "verdict-timeout" : "Integer",
  "dga-fallbackLog" : "Boolean",
  "dnsTunnelDetection" : "Boolean",
  "tunnel-action" : "String",
  "tunnel-log" : "String",
```


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```
    "inspection-depth" : "Integer",
    "tunnel-fallbackLog" : "Boolean",
    "etiDetection" : "Boolean",
    "eti-action" : "String",
    "eti-log" : "String",
    "eti-fallbackLog" : "Boolean",
    "uri" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dns-security-profile>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <name>String</name>
  <uuid>String</uuid>
  <moid>String</moid>
  <cache-TTL>Boolean</cache-TTL>
  <ttl-benign>Integer</ttl-benign>
  <ttl-c2>Integer</ttl-c2>
  <dnsDGADetection>Boolean</dnsDGADetection>
  <dga-action>String</dga-action>
  <dga-log>String</dga-log>
  <verdict-timeout>Integer</verdict-timeout>
  <dga-fallbackLog>Boolean</dga-fallbackLog>
  <dnsTunnelDetection>Boolean</dnsTunnelDetection>
  <tunnel-action>String</tunnel-action>
  <tunnel-log>String</tunnel-log>
  <inspection-depth>Integer</inspection-depth>
  <tunnel-fallbackLog>Boolean</tunnel-fallbackLog>
  <etiDetection>Boolean</etiDetection>
  <eti-action>String</eti-action>
  <eti-log>String</eti-log>
  <eti-fallbackLog>Boolean</eti-fallbackLog>
  <uri>String</uri>
</dns-security-profile>
```


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CHAPTER 38

Service Management RESTful Web Services

The following opertions can be performed using Secuirty Director Service Management RESTful Web Services

Retrieve Applications

Fetches a paginated list of application services, optionally including their members and protocols.

URI	/api/juniper/sd/service-management/services?includeMembers=boolean&includeProtocols=boolean
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.service-management.services+xml;version=1;q=0.01 application/vnd.juniper.sd.service-management.services+json;version=1;q=0.01
Access-Control	manageApplications

Sample JSON Output:


```
{
  "services" : {
    "service" : [ {
      "global" : "String",
      "id" : "Integer",
      "hash-key" : "String",
      "name" : "String",
      "description" : "String",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "is-group" : "Boolean",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "uri" : "String",
      "link" : "String",
      "members" : {
        "member" : [ {
          "id" : "Integer",
```


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```
        "name" : "String",
        "domain-name" : "String",
        "description" : "String",
        "is-group" : "Boolean",
        "uri" : "String",
        "link" : "String",
        "protocols" : {
          "uri" : "String",
          "protocol" : [ {
            "sunrpc-protocol-type" : [ "TCP", "UDP" ],
            "msrpc-protocol-type" : [ "TCP", "UDP" ],
            "protocol-number" : "Integer",
            "name" : "String",
            "alg" : "String",
            "src-port" : "String",
            "dst-port" : "String",
            "disable-timeout" : "Boolean",
            "inactivity-timeout" : "Integer",
            "protocol-type" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
            "rpc-program-number" : "String",
            "icmp-code" : "Integer",
            "icmp-type" : "Integer",
            "description" : "String",
            "uuid" : "String",
            "uri" : "String"
          } ]
        }
      } ],
      "uri" : "String",
      "totalSize" : "int"
    },
    "protocols" : {
      "uri" : "String",
      "protocol" : [ {
        "sunrpc-protocol-type" : [ "TCP", "UDP" ],
        "msrpc-protocol-type" : [ "TCP", "UDP" ],
        "protocol-number" : "Integer",
        "name" : "String",
        "alg" : "String",
        "src-port" : "String",
        "dst-port" : "String",
        "disable-timeout" : "Boolean",
        "inactivity-timeout" : "Integer",
        "protocol-type" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpc-program-number" : "String",
        "icmp-code" : "Integer",
        "icmp-type" : "Integer",
        "description" : "String",
        "uuid" : "String",
        "uri" : "String"
      } ]
    },
    "owning-system" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "int"
 }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<services>
  <service>
    <global>String</global>
    <id>Integer</id>
    <hash-key>String</hash-key>
    <name>String</name>
    <description>String</description>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <is-group>Boolean</is-group>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <uri>String</uri>
    <link>String</link>
    <members>
      <member>
        <id>Integer</id>
        <name>String</name>
        <domain-name>String</domain-name>
        <description>String</description>
        <is-group>Boolean</is-group>
        <uri>String</uri>
        <link>String</link>
        <protocols>
          <uri>String</uri>
          <protocol>
            <sunrpc-protocol-type>TCP</sunrpc-protocol-type>
            <sunrpc-protocol-type>UDP</sunrpc-protocol-type>
            <msrpc-protocol-type>TCP</msrpc-protocol-type>
            <msrpc-protocol-type>UDP</msrpc-protocol-type>
            <protocol-number>Integer</protocol-number>
            <name>String</name>
            <alg>String</alg>
            <src-port>String</src-port>
            <dst-port>String</dst-port>
            <disable-timeout>Boolean</disable-timeout>
            <inactivity-timeout>Integer</inactivity-timeout>
            <protocol-type>PROTOCOL_TCP</protocol-type>
            <protocol-type>PROTOCOL_UDP</protocol-type>
            <protocol-type>PROTOCOL_ICMP</protocol-type>
            <protocol-type>PROTOCOL_SUN_RPC</protocol-type>
            <protocol-type>PROTOCOL_MS_RPC</protocol-type>
            <protocol-type>PROTOCOL_ICMPV6</protocol-type>
            <protocol-type>PROTOCOL_OTHER</protocol-type>
            <rpc-program-number>String</rpc-program-number>
            <icmp-code>Integer</icmp-code>
            <icmp-type>Integer</icmp-type>
            <description>String</description>
            <uuid>String</uuid>
            <uri>String</uri>
          </protocol>
        </protocols>
      </member>
      <uri>String</uri>
      <totalSize>int</totalSize>
    </members>
    <protocols>
      <uri>String</uri>
      <protocol>
```


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```
        <sunrpc-protocol-type>TCP</sunrpc-protocol-type>
        <sunrpc-protocol-type>UDP</sunrpc-protocol-type>
        <msrpc-protocol-type>TCP</msrpc-protocol-type>
        <msrpc-protocol-type>UDP</msrpc-protocol-type>
        <protocol-number>Integer</protocol-number>
        <name>String</name>
        <alg>String</alg>
        <src-port>String</src-port>
        <dst-port>String</dst-port>
        <disable-timeout>Boolean</disable-timeout>
        <inactivity-timeout>Integer</inactivity-timeout>
        <protocol-type>PROTOCOL_TCP</protocol-type>
        <protocol-type>PROTOCOL_UDP</protocol-type>
        <protocol-type>PROTOCOL_ICMP</protocol-type>
        <protocol-type>PROTOCOL_SUN_RPC</protocol-type>
        <protocol-type>PROTOCOL_MS_RPC</protocol-type>
        <protocol-type>PROTOCOL_ICMPV6</protocol-type>
        <protocol-type>PROTOCOL_OTHER</protocol-type>
        <rpc-program-number>String</rpc-program-number>
        <icmp-code>Integer</icmp-code>
        <icmp-type>Integer</icmp-type>
        <description>String</description>
        <uuid>String</uuid>
        <uri>String</uri>
      </protocol>
    </protocols>
    <owning-system>String</owning-system>
  </service>
  <uri>String</uri>
  <totalSize>int</totalSize>
</services>
```


Retrieve Application by ID

Fetches the complete detailed configuration of a specific application service by its ID.

URI	/api/juniper/sd/service-management/services/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.service-management.service+xml;version=1;q=0.01 application/vnd.juniper.sd.service-management.service+json;version=1;q=0.01
Access-Control	manageApplications

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Sample JSON Output:


```
{
  "service" : {
    "last-modified-time" : "Date",
    "id" : "Integer",
    "created-time" : "Date",
    "last-modified-by-user-name" : "String",
    "created-by-user-name" : "String",
    "protocols" : {
      "protocol" : [ {
        "sunrpc-protocol-type" : [ "TCP", "UDP" ],
        "msrpc-protocol-type" : [ "TCP", "UDP" ],
        "protocol-number" : "Integer",
        "name" : "String",
        "alg" : "String",
        "src-port" : "String",
        "dst-port" : "String",
        "disable-timeout" : "Boolean",
        "inactivity-timeout" : "Integer",
        "protocol-type" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpc-program-number" : "String",
        "icmp-code" : "Integer",
        "icmp-type" : "Integer",
        "description" : "String",
        "uuid" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "edit-version" : "Integer",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "name" : "String",
    "is-group" : "Boolean",
    "description" : "String",
    "members" : {
      "member" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "description" : "String",
        "is-group" : "Boolean",
        "uri" : "String",
        "link" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "int"
    },
    "uri" : "String",
    "link" : "String",
    "owning-system" : "String"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<service>
  <last-modified-time>Date</last-modified-time>
  <id>Integer</id>
  <created-time>Date</created-time>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-by-user-name>String</created-by-user-name>
  <protocols>
    <protocol>
      <sunrpc-protocol-type>TCP</sunrpc-protocol-type>
      <sunrpc-protocol-type>UDP</sunrpc-protocol-type>
      <msrpc-protocol-type>TCP</msrpc-protocol-type>
      <msrpc-protocol-type>UDP</msrpc-protocol-type>
      <protocol-number>Integer</protocol-number>
      <name>String</name>
      <alg>String</alg>
      <src-port>String</src-port>
      <dst-port>String</dst-port>
      <disable-timeout>Boolean</disable-timeout>
      <inactivity-timeout>Integer</inactivity-timeout>
      <protocol-type>PROTOCOL_TCP</protocol-type>
      <protocol-type>PROTOCOL_UDP</protocol-type>
      <protocol-type>PROTOCOL_ICMP</protocol-type>
      <protocol-type>PROTOCOL_SUN_RPC</protocol-type>
      <protocol-type>PROTOCOL_MS_RPC</protocol-type>
      <protocol-type>PROTOCOL_ICMPV6</protocol-type>
      <protocol-type>PROTOCOL_OTHER</protocol-type>
      <rpc-program-number>String</rpc-program-number>
      <icmp-code>Integer</icmp-code>
      <icmp-type>Integer</icmp-type>
      <description>String</description>
      <uuid>String</uuid>
      <uri>String</uri>
    </protocol>
    <uri>String</uri>
  </protocols>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <is-group>Boolean</is-group>
  <description>String</description>
  <members>
    <member>
      <id>Integer</id>
      <name>String</name>
      <domain-name>String</domain-name>
      <description>String</description>
      <is-group>Boolean</is-group>
      <uri>String</uri>
      <link>String</link>
    </member>
    <uri>String</uri>
    <totalSize>int</totalSize>
  </members>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
</service>
```


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Update Application Service

Modifies an existing application service identified by its ID.

URI	/api/juniper/sd/service-management/services/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.service-management.service+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.service-management.service+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.service-management.service+xml;version=1;q=0.01 application/vnd.juniper.sd.service-management.service+json;version=1;q=0.01
Access-Control	ModifyApplication

Sample JSON Input


```
{
  "service" : {
    "id" : "Integer",
    "protocols" : {
      "protocol" : [ {
        "sunrpc-protocol-type" : [ "TCP", "UDP" ],
        "msrpc-protocol-type" : [ "TCP", "UDP" ],
        "protocol-number" : "Integer",
        "name" : "String",
        "alg" : "String",
        "src-port" : "String",
        "dst-port" : "String",
        "disable-timeout" : "Boolean",
        "inactivity-timeout" : "Integer",
        "protocol-type" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpc-program-number" : "String",
        "icmp-code" : "Integer",
        "icmp-type" : "Integer",
        "description" : "String",
        "uuid" : "String"
      } ]
    },
    "edit-version" : "Integer",
    "name" : "String",
    "is-group" : "Boolean",
    "description" : "String",
    "members" : {
      "member" : [ {
```


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```
      "id" : "Integer",
      "name" : "String",
      "description" : "String",
      "is-group" : "Boolean"
    } ],
    "totalSize" : "int"
  }
 }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<service>
  <id>Integer</id>
  <protocols>
    <protocol>
      <sunrpc-protocol-type>TCP</sunrpc-protocol-type>
      <sunrpc-protocol-type>UDP</sunrpc-protocol-type>
      <msrpc-protocol-type>TCP</msrpc-protocol-type>
      <msrpc-protocol-type>UDP</msrpc-protocol-type>
      <protocol-number>Integer</protocol-number>
      <name>String</name>
      <alg>String</alg>
      <src-port>String</src-port>
      <dst-port>String</dst-port>
      <disable-timeout>Boolean</disable-timeout>
      <inactivity-timeout>Integer</inactivity-timeout>
      <protocol-type>PROTOCOL_TCP</protocol-type>
      <protocol-type>PROTOCOL_UDP</protocol-type>
      <protocol-type>PROTOCOL_ICMP</protocol-type>
      <protocol-type>PROTOCOL_SUN_RPC</protocol-type>
      <protocol-type>PROTOCOL_MS_RPC</protocol-type>
      <protocol-type>PROTOCOL_ICMPV6</protocol-type>
      <protocol-type>PROTOCOL_OTHER</protocol-type>
      <rpc-program-number>String</rpc-program-number>
      <icmp-code>Integer</icmp-code>
      <icmp-type>Integer</icmp-type>
      <description>String</description>
      <uuid>String</uuid>
    </protocol>
  </protocols>
  <edit-version>Integer</edit-version>
  <name>String</name>
  <is-group>Boolean</is-group>
  <description>String</description>
  <members>
    <member>
      <id>Integer</id>
      <name>String</name>
      <description>String</description>
      <is-group>Boolean</is-group>
    </member>
    <totalSize>int</totalSize>
  </members>
</service>
```


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Sample JSON Output:


```
{
  "service" : {
    "last-modified-time" : "Date",
    "id" : "Integer",
    "created-time" : "Date",
    "last-modified-by-user-name" : "String",
    "created-by-user-name" : "String",
    "protocols" : {
      "protocol" : [ {
        "sunrpc-protocol-type" : [ "TCP", "UDP" ],
        "msrpc-protocol-type" : [ "TCP", "UDP" ],
        "protocol-number" : "Integer",
        "name" : "String",
        "alg" : "String",
        "src-port" : "String",
        "dst-port" : "String",
        "disable-timeout" : "Boolean",
        "inactivity-timeout" : "Integer",
        "protocol-type" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpc-program-number" : "String",
        "icmp-code" : "Integer",
        "icmp-type" : "Integer",
        "description" : "String",
        "uuid" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "edit-version" : "Integer",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "name" : "String",
    "is-group" : "Boolean",
    "description" : "String",
    "members" : {
      "member" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "description" : "String",
        "is-group" : "Boolean",
        "uri" : "String",
        "link" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "int"
    },
    "uri" : "String",
    "link" : "String",
    "owning-system" : "String"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<service>
  <last-modified-time>Date</last-modified-time>
  <id>Integer</id>
  <created-time>Date</created-time>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-by-user-name>String</created-by-user-name>
  <protocols>
    <protocol>
      <sunrpc-protocol-type>TCP</sunrpc-protocol-type>
      <sunrpc-protocol-type>UDP</sunrpc-protocol-type>
      <msrpc-protocol-type>TCP</msrpc-protocol-type>
      <msrpc-protocol-type>UDP</msrpc-protocol-type>
      <protocol-number>Integer</protocol-number>
      <name>String</name>
      <alg>String</alg>
      <src-port>String</src-port>
      <dst-port>String</dst-port>
      <disable-timeout>Boolean</disable-timeout>
      <inactivity-timeout>Integer</inactivity-timeout>
      <protocol-type>PROTOCOL_TCP</protocol-type>
      <protocol-type>PROTOCOL_UDP</protocol-type>
      <protocol-type>PROTOCOL_ICMP</protocol-type>
      <protocol-type>PROTOCOL_SUN_RPC</protocol-type>
      <protocol-type>PROTOCOL_MS_RPC</protocol-type>
      <protocol-type>PROTOCOL_ICMPV6</protocol-type>
      <protocol-type>PROTOCOL_OTHER</protocol-type>
      <rpc-program-number>String</rpc-program-number>
      <icmp-code>Integer</icmp-code>
      <icmp-type>Integer</icmp-type>
      <description>String</description>
      <uuid>String</uuid>
      <uri>String</uri>
    </protocol>
    <uri>String</uri>
  </protocols>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <is-group>Boolean</is-group>
  <description>String</description>
  <members>
    <member>
      <id>Integer</id>
      <name>String</name>
      <domain-name>String</domain-name>
      <description>String</description>
      <is-group>Boolean</is-group>
      <uri>String</uri>
      <link>String</link>
    </member>
    <uri>String</uri>
    <totalSize>int</totalSize>
  </members>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
</service>
```


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Create Application Service

Creates a new application service in the system.

URI	/api/juniper/sd/service-management/services
HTTP method	POST
Content-Type	application/vnd.juniper.sd.service-management.service+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.service-management.service+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.service-management.service+xml;version=1;q=0.01 application/vnd.juniper.sd.service-management.service+json;version=1;q=0.01
Access-Control	createApplications

Sample JSON Input

```
{
  "service" : {
    "id" : "Integer",
    "protocols" : {
      "protocol" : [ {
        "sunrpc-protocol-type" : [ "TCP", "UDP" ],
        "msrpc-protocol-type" : [ "TCP", "UDP" ],
        "protocol-number" : "Integer",
        "name" : "String",
        "alg" : "String",
        "src-port" : "String",
        "dst-port" : "String",
        "disable-timeout" : "Boolean",
        "inactivity-timeout" : "Integer",
        "protocol-type" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpc-program-number" : "String",
        "icmp-code" : "Integer",
        "icmp-type" : "Integer",
        "description" : "String",
        "uuid" : "String"
      } ]
    },
    "edit-version" : "Integer",
    "name" : "String",
    "is-group" : "Boolean",
    "description" : "String",
    "members" : {
      "member" : [ {
```


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```
      "id" : "Integer",
      "name" : "String",
      "description" : "String",
      "is-group" : "Boolean"
    } ],
    "totalSize" : "int"
  }
 }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<service>
  <id>Integer</id>
  <protocols>
    <protocol>
      <sunrpc-protocol-type>TCP</sunrpc-protocol-type>
      <sunrpc-protocol-type>UDP</sunrpc-protocol-type>
      <msrpc-protocol-type>TCP</msrpc-protocol-type>
      <msrpc-protocol-type>UDP</msrpc-protocol-type>
      <protocol-number>Integer</protocol-number>
      <name>String</name>
      <alg>String</alg>
      <src-port>String</src-port>
      <dst-port>String</dst-port>
      <disable-timeout>Boolean</disable-timeout>
      <inactivity-timeout>Integer</inactivity-timeout>
      <protocol-type>PROTOCOL_TCP</protocol-type>
      <protocol-type>PROTOCOL_UDP</protocol-type>
      <protocol-type>PROTOCOL_ICMP</protocol-type>
      <protocol-type>PROTOCOL_SUN_RPC</protocol-type>
      <protocol-type>PROTOCOL_MS_RPC</protocol-type>
      <protocol-type>PROTOCOL_ICMPV6</protocol-type>
      <protocol-type>PROTOCOL_OTHER</protocol-type>
      <rpc-program-number>String</rpc-program-number>
      <icmp-code>Integer</icmp-code>
      <icmp-type>Integer</icmp-type>
      <description>String</description>
      <uuid>String</uuid>
    </protocol>
  </protocols>
  <edit-version>Integer</edit-version>
  <name>String</name>
  <is-group>Boolean</is-group>
  <description>String</description>
  <members>
    <member>
      <id>Integer</id>
      <name>String</name>
      <description>String</description>
      <is-group>Boolean</is-group>
    </member>
    <totalSize>int</totalSize>
  </members>
</service>
```


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Sample JSON Output:


```
{
  "service" : {
    "last-modified-time" : "Date",
    "id" : "Integer",
    "created-time" : "Date",
    "last-modified-by-user-name" : "String",
    "created-by-user-name" : "String",
    "protocols" : {
      "protocol" : [ {
        "sunrpc-protocol-type" : [ "TCP", "UDP" ],
        "msrpc-protocol-type" : [ "TCP", "UDP" ],
        "protocol-number" : "Integer",
        "name" : "String",
        "alg" : "String",
        "src-port" : "String",
        "dst-port" : "String",
        "disable-timeout" : "Boolean",
        "inactivity-timeout" : "Integer",
        "protocol-type" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpc-program-number" : "String",
        "icmp-code" : "Integer",
        "icmp-type" : "Integer",
        "description" : "String",
        "uuid" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "edit-version" : "Integer",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "name" : "String",
    "is-group" : "Boolean",
    "description" : "String",
    "members" : {
      "member" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "description" : "String",
        "is-group" : "Boolean",
        "uri" : "String",
        "link" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "int"
    },
    "uri" : "String",
    "link" : "String",
    "owning-system" : "String"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<service>
  <last-modified-time>Date</last-modified-time>
  <id>Integer</id>
  <created-time>Date</created-time>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-by-user-name>String</created-by-user-name>
  <protocols>
    <protocol>
      <sunrpc-protocol-type>TCP</sunrpc-protocol-type>
      <sunrpc-protocol-type>UDP</sunrpc-protocol-type>
      <msrpc-protocol-type>TCP</msrpc-protocol-type>
      <msrpc-protocol-type>UDP</msrpc-protocol-type>
      <protocol-number>Integer</protocol-number>
      <name>String</name>
      <alg>String</alg>
      <src-port>String</src-port>
      <dst-port>String</dst-port>
      <disable-timeout>Boolean</disable-timeout>
      <inactivity-timeout>Integer</inactivity-timeout>
      <protocol-type>PROTOCOL_TCP</protocol-type>
      <protocol-type>PROTOCOL_UDP</protocol-type>
      <protocol-type>PROTOCOL_ICMP</protocol-type>
      <protocol-type>PROTOCOL_SUN_RPC</protocol-type>
      <protocol-type>PROTOCOL_MS_RPC</protocol-type>
      <protocol-type>PROTOCOL_ICMPV6</protocol-type>
      <protocol-type>PROTOCOL_OTHER</protocol-type>
      <rpc-program-number>String</rpc-program-number>
      <icmp-code>Integer</icmp-code>
      <icmp-type>Integer</icmp-type>
      <description>String</description>
      <uuid>String</uuid>
      <uri>String</uri>
    </protocol>
    <uri>String</uri>
  </protocols>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <is-group>Boolean</is-group>
  <description>String</description>
  <members>
    <member>
      <id>Integer</id>
      <name>String</name>
      <domain-name>String</domain-name>
      <description>String</description>
      <is-group>Boolean</is-group>
      <uri>String</uri>
      <link>String</link>
    </member>
    <uri>String</uri>
    <totalSize>int</totalSize>
  </members>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
</service>
```


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Delete Application Service

Deletes a specific application service from the system by its ID.

URI	/api/juniper/sd/service-management/services/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	DeleteApplication

Update Reference Count

Updates the reference count for a single application or related entity.

URI	/api/juniper/sd/service-management/v5/ref-count-update
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageApplications

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Sample JSON Input

```
{
  "type" : "String"
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<type>String</type>
```

Sample JSON Output:

```
{
  "output" : {
    "ref_from_uuid" : "String",
    "ref_to_uuid" : "String",
    "ref_count" : "int"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<output>
   <ref_from_uuid>String</ref_from_uuid>
   <ref_to_uuid>String</ref_to_uuid>
   <ref_count>int</ref_count>
</output>
```

Retrieve References by UUIDs

Fetches application references for a given list of UUIDs.

URI	/api/juniper/sd/service-management/v5/get_refs_by_uuids
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml

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Access-Control	manageApplications

Sample JSON Input

```
{
  "input" : {
    "object_uuids" : [ "String" ],
    "flatten" : "boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<input>
   <object_uuids>String</object_uuids>
   <flatten>boolean</flatten>
</input>
```

Sample JSON Output:

```
{
  "External_REFS" : {
    "refs" : [ {
      "objectuuid" : "String",
      "refs" : { }
    } ]
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<External_REFS>
   <refs>
      <objectuuid>String</objectuuid>
      <refs/>
   </refs>
</External_REFS>
```

Bulk Update Reference Counts

Performs bulk updates on reference counts for multiple applications or related entities.

URI	/api/juniper/sd/service-management/v5/bulk-ref-count-update

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HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageApplications

Sample JSON Input

```
{
  "type" : "String"
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<type>String</type>
```

Sample JSON Output:

```
{
  "refUnrefOutputs" : [ {
    "ref_from_uuid" : "String",
    "ref_to_uuid" : "String",
    "ref_count" : "int"
  } ]
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<refUnrefOutputs>
   <ref_from_uuid>String</ref_from_uuid>
   <ref_to_uuid>String</ref_to_uuid>
   <ref_count>int</ref_count>
</refUnrefOutputs>
```

Import Applications

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Imports a list of application configurations into the system.

URI	/api/juniper/sd/service-management/v5/applications/import
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageApplications

Sample JSON Input

```
{}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
```

Sample JSON Output:

```
{}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Retrieve Application References

Fetches a paginated list of application service references.

URI	/api/juniper/sd/service-management/v5/services
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageApplications

Sample JSON Output:

```
{
  "services" : {
    "service" : [ {
      "global" : "String",
      "uuid" : "String",
      "hash-key" : "String",
      "name" : "String",
      "display_name" : "String",
      "description" : "String",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "is-group" : "Boolean",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "uri" : "String",
      "link" : "String",
      "owning-system" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "int"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<services>
  <service>
    <global>String</global>
    <uuid>String</uuid>
    <hash-key>String</hash-key>
    <name>String</name>
    <display_name>String</display_name>
    <description>String</description>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <is-group>Boolean</is-group>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <uri>String</uri>
    <link>String</link>
    <owning-system>String</owning-system>
  </service>
  <uri>String</uri>
  <totalSize>int</totalSize>
</services>
```

Retrieve Detailed Applications

Fetches a paginated list of detailed application configurations.

URI	/api/juniper/sd/service-management/v5/services/details
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageApplications

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Sample JSON Output:


```
{
  "output" : {
    "value" : [ {
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String",
        "last-modified-by-user-name" : "String",
        "created-time" : "Date",
        "last-modified-time" : "Date"
      },
      "uuid" : "String",
      "display_name" : "String",
      "protocols" : {
        "protocol" : [ {
          "sunrpc-protocol-type" : [ "TCP", "UDP" ],
          "msrpc-protocol-type" : [ "TCP", "UDP" ],
          "protocol-number" : "Integer",
          "name" : "String",
          "alg" : "String",
          "src-port" : "String",
          "dst-port" : "String",
          "disable-timeout" : "Boolean",
          "inactivity-timeout" : "Integer",
          "protocol-type" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
          "rpc-program-number" : "String",
          "icmp-code" : "Integer",
          "icmp-type" : "Integer",
          "description" : "String",
          "uuid" : "String",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "edit-version" : "Integer",
      "update_number" : "int",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "domain-name" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "is-group" : "Boolean",
      "description" : "String",
      "uri" : "String",
      "link" : "String",
      "owning_system" : "String",
      "service_refs" : [ {
        "uuid" : "String",
        "name" : "String",
        "display_name" : "String",
        "domain-name" : "String",
        "domain-id" : "Integer",
        "description" : "String",
        "is-group" : "Boolean",
        "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "id_perms" : {
          "created" : "String",
          "creator" : "String",
          "last_modified" : "String",
          "last-modified-by-user-name" : "String",
          "created-time" : "Date",
          "last-modified-time" : "Date"
```


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```
      },
      "uri" : "String",
      "link" : "String"
    } ]
  } ],
  "uri" : "String",
  "totalSize" : "int"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<output>
  <value>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <uuid>String</uuid>
    <display_name>String</display_name>
    <protocols>
      <protocol>
        <sunrpc-protocol-type>TCP</sunrpc-protocol-type>
        <sunrpc-protocol-type>UDP</sunrpc-protocol-type>
        <msrpc-protocol-type>TCP</msrpc-protocol-type>
        <msrpc-protocol-type>UDP</msrpc-protocol-type>
        <protocol-number>Integer</protocol-number>
        <name>String</name>
        <alg>String</alg>
        <src-port>String</src-port>
        <dst-port>String</dst-port>
        <disable-timeout>Boolean</disable-timeout>
        <inactivity-timeout>Integer</inactivity-timeout>
        <protocol-type>PROTOCOL_TCP</protocol-type>
        <protocol-type>PROTOCOL_UDP</protocol-type>
        <protocol-type>PROTOCOL_ICMP</protocol-type>
        <protocol-type>PROTOCOL_SUN_RPC</protocol-type>
        <protocol-type>PROTOCOL_MS_RPC</protocol-type>
        <protocol-type>PROTOCOL_ICMPV6</protocol-type>
        <protocol-type>PROTOCOL_OTHER</protocol-type>
        <rpc-program-number>String</rpc-program-number>
        <icmp-code>Integer</icmp-code>
        <icmp-type>Integer</icmp-type>
        <description>String</description>
        <uuid>String</uuid>
        <uri>String</uri>
      </protocol>
      <uri>String</uri>
    </protocols>
    <edit-version>Integer</edit-version>
    <update_number>int</update_number>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <is-group>Boolean</is-group>
```


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```
    <description>String</description>
    <uri>String</uri>
    <link>String</link>
    <owning_system>String</owning_system>
    <service_refs>
      <uuid>String</uuid>
      <name>String</name>
      <display_name>String</display_name>
      <domain-name>String</domain-name>
      <domain-id>Integer</domain-id>
      <description>String</description>
      <is-group>Boolean</is-group>
      <definition_type>Hidden</definition_type>
      <definition_type>Predefined</definition_type>
      <definition_type>Custom</definition_type>
      <definition_type>All</definition_type>
      <id_perms>
        <created>String</created>
        <creator>String</creator>
        <last_modified>String</last_modified>
        <last-modified-by-user-name>String</last-modified-by-user-name>
        <created-time>Date</created-time>
        <last-modified-time>Date</last-modified-time>
      </id_perms>
      <uri>String</uri>
      <link>String</link>
    </service_refs>
  </value>
  <uri>String</uri>
  <totalSize>int</totalSize>
</output>
```

Retrieve Application

Fetches the complete detailed configuration of a specific application service by its UUID.

URI	/api/juniper/sd/service-management/v5/services/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageApplications

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Sample JSON Output:


```
{
  "service" : {
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "uuid" : "String",
    "display_name" : "String",
    "protocols" : {
      "protocol" : [ {
        "sunrpc-protocol-type" : [ "TCP", "UDP" ],
        "msrpc-protocol-type" : [ "TCP", "UDP" ],
        "protocol-number" : "Integer",
        "name" : "String",
        "alg" : "String",
        "src-port" : "String",
        "dst-port" : "String",
        "disable-timeout" : "Boolean",
        "inactivity-timeout" : "Integer",
        "protocol-type" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpc-program-number" : "String",
        "icmp-code" : "Integer",
        "icmp-type" : "Integer",
        "description" : "String",
        "uuid" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "edit-version" : "Integer",
    "update_number" : "int",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "domain-name" : "String",
    "domain-id" : "Integer",
    "name" : "String",
    "is-group" : "Boolean",
    "description" : "String",
    "uri" : "String",
    "link" : "String",
    "owning_system" : "String",
    "service_refs" : [ {
      "uuid" : "String",
      "name" : "String",
      "display_name" : "String",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "description" : "String",
      "is-group" : "Boolean",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String",
        "last-modified-by-user-name" : "String",
        "created-time" : "Date",
        "last-modified-time" : "Date"
      },
```


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```
    "uri" : "String",
    "link" : "String"
   } ]
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<service>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <uuid>String</uuid>
  <display_name>String</display_name>
  <protocols>
    <protocol>
      <sunrpc-protocol-type>TCP</sunrpc-protocol-type>
      <sunrpc-protocol-type>UDP</sunrpc-protocol-type>
      <msrpc-protocol-type>TCP</msrpc-protocol-type>
      <msrpc-protocol-type>UDP</msrpc-protocol-type>
      <protocol-number>Integer</protocol-number>
      <name>String</name>
      <alg>String</alg>
      <src-port>String</src-port>
      <dst-port>String</dst-port>
      <disable-timeout>Boolean</disable-timeout>
      <inactivity-timeout>Integer</inactivity-timeout>
      <protocol-type>PROTOCOL_TCP</protocol-type>
      <protocol-type>PROTOCOL_UDP</protocol-type>
      <protocol-type>PROTOCOL_ICMP</protocol-type>
      <protocol-type>PROTOCOL_SUN_RPC</protocol-type>
      <protocol-type>PROTOCOL_MS_RPC</protocol-type>
      <protocol-type>PROTOCOL_ICMPV6</protocol-type>
      <protocol-type>PROTOCOL_OTHER</protocol-type>
      <rpc-program-number>String</rpc-program-number>
      <icmp-code>Integer</icmp-code>
      <icmp-type>Integer</icmp-type>
      <description>String</description>
      <uuid>String</uuid>
      <uri>String</uri>
    </protocol>
    <uri>String</uri>
  </protocols>
  <edit-version>Integer</edit-version>
  <update_number>int</update_number>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <is-group>Boolean</is-group>
  <description>String</description>
  <uri>String</uri>
```


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```
  <link>String</link>
  <owning_system>String</owning_system>
  <service_refs>
    <uuid>String</uuid>
    <name>String</name>
    <display_name>String</display_name>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <description>String</description>
    <is-group>Boolean</is-group>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <uri>String</uri>
    <link>String</link>
  </service_refs>
</service>
```

Update Application Service by UUID

Modifies an existing application service identified by its UUID.

URI	/api/juniper/sd/service-management/v5/services/{id}
HTTP method	PUT
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	ModifyApplication

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Sample JSON Input


```
{
  "service" : {
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "uuid" : "String",
    "display_name" : "String",
    "protocols" : {
      "protocol" : [ {
        "sunrpc-protocol-type" : [ "TCP", "UDP" ],
        "msrpc-protocol-type" : [ "TCP", "UDP" ],
        "protocol-number" : "Integer",
        "name" : "String",
        "alg" : "String",
        "src-port" : "String",
        "dst-port" : "String",
        "disable-timeout" : "Boolean",
        "inactivity-timeout" : "Integer",
        "protocol-type" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpc-program-number" : "String",
        "icmp-code" : "Integer",
        "icmp-type" : "Integer",
        "description" : "String",
        "uuid" : "String"
      } ]
    },
    "edit-version" : "Integer",
    "update_number" : "int",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "name" : "String",
    "is-group" : "Boolean",
    "description" : "String",
    "owning_system" : "String",
    "service_refs" : [ {
      "uuid" : "String",
      "name" : "String",
      "display_name" : "String",
      "description" : "String",
      "is-group" : "Boolean",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String"
      }
    } ]
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<service>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <uuid>String</uuid>
  <display_name>String</display_name>
  <protocols>
```


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```
    <protocol>
      <sunrpc-protocol-type>TCP</sunrpc-protocol-type>
      <sunrpc-protocol-type>UDP</sunrpc-protocol-type>
      <msrpc-protocol-type>TCP</msrpc-protocol-type>
      <msrpc-protocol-type>UDP</msrpc-protocol-type>
      <protocol-number>Integer</protocol-number>
      <name>String</name>
      <alg>String</alg>
      <src-port>String</src-port>
      <dst-port>String</dst-port>
      <disable-timeout>Boolean</disable-timeout>
      <inactivity-timeout>Integer</inactivity-timeout>
      <protocol-type>PROTOCOL_TCP</protocol-type>
      <protocol-type>PROTOCOL_UDP</protocol-type>
      <protocol-type>PROTOCOL_ICMP</protocol-type>
      <protocol-type>PROTOCOL_SUN_RPC</protocol-type>
      <protocol-type>PROTOCOL_MS_RPC</protocol-type>
      <protocol-type>PROTOCOL_ICMPV6</protocol-type>
      <protocol-type>PROTOCOL_OTHER</protocol-type>
      <rpc-program-number>String</rpc-program-number>
      <icmp-code>Integer</icmp-code>
      <icmp-type>Integer</icmp-type>
      <description>String</description>
      <uuid>String</uuid>
    </protocol>
  </protocols>
  <edit-version>Integer</edit-version>
  <update_number>int</update_number>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <name>String</name>
  <is-group>Boolean</is-group>
  <description>String</description>
  <owning_system>String</owning_system>
  <service_refs>
    <uuid>String</uuid>
    <name>String</name>
    <display_name>String</display_name>
    <description>String</description>
    <is-group>Boolean</is-group>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
    </id_perms>
  </service_refs>
</service>
```

Sample JSON Output:

```
{
  "service" : {
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
```


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```
    },
    "uuid" : "String",
    "display_name" : "String",
    "protocols" : {
      "protocol" : [ {
        "sunrpc-protocol-type" : [ "TCP", "UDP" ],
        "msrpc-protocol-type" : [ "TCP", "UDP" ],
        "protocol-number" : "Integer",
        "name" : "String",
        "alg" : "String",
        "src-port" : "String",
        "dst-port" : "String",
        "disable-timeout" : "Boolean",
        "inactivity-timeout" : "Integer",
        "protocol-type" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpc-program-number" : "String",
        "icmp-code" : "Integer",
        "icmp-type" : "Integer",
        "description" : "String",
        "uuid" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "edit-version" : "Integer",
    "update_number" : "int",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "domain-name" : "String",
    "domain-id" : "Integer",
    "name" : "String",
    "is-group" : "Boolean",
    "description" : "String",
    "uri" : "String",
    "link" : "String",
    "owning_system" : "String",
    "service_refs" : [ {
      "uuid" : "String",
      "name" : "String",
      "display_name" : "String",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "description" : "String",
      "is-group" : "Boolean",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String",
        "last-modified-by-user-name" : "String",
        "created-time" : "Date",
        "last-modified-time" : "Date"
      },
      "uri" : "String",
      "link" : "String"
    } ]
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<service>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <uuid>String</uuid>
  <display_name>String</display_name>
  <protocols>
    <protocol>
      <sunrpc-protocol-type>TCP</sunrpc-protocol-type>
      <sunrpc-protocol-type>UDP</sunrpc-protocol-type>
      <msrpc-protocol-type>TCP</msrpc-protocol-type>
      <msrpc-protocol-type>UDP</msrpc-protocol-type>
      <protocol-number>Integer</protocol-number>
      <name>String</name>
      <alg>String</alg>
      <src-port>String</src-port>
      <dst-port>String</dst-port>
      <disable-timeout>Boolean</disable-timeout>
      <inactivity-timeout>Integer</inactivity-timeout>
      <protocol-type>PROTOCOL_TCP</protocol-type>
      <protocol-type>PROTOCOL_UDP</protocol-type>
      <protocol-type>PROTOCOL_ICMP</protocol-type>
      <protocol-type>PROTOCOL_SUN_RPC</protocol-type>
      <protocol-type>PROTOCOL_MS_RPC</protocol-type>
      <protocol-type>PROTOCOL_ICMPV6</protocol-type>
      <protocol-type>PROTOCOL_OTHER</protocol-type>
      <rpc-program-number>String</rpc-program-number>
      <icmp-code>Integer</icmp-code>
      <icmp-type>Integer</icmp-type>
      <description>String</description>
      <uuid>String</uuid>
      <uri>String</uri>
    </protocol>
    <uri>String</uri>
  </protocols>
  <edit-version>Integer</edit-version>
  <update_number>int</update_number>
  <definition_type>Hidden</definition_type>
  <definition_type>Predefined</definition_type>
  <definition_type>Custom</definition_type>
  <definition_type>All</definition_type>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <is-group>Boolean</is-group>
  <description>String</description>
  <uri>String</uri>
  <link>String</link>
  <owning_system>String</owning_system>
  <service_refs>
    <uuid>String</uuid>
    <name>String</name>
    <display_name>String</display_name>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <description>String</description>
```


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```
    <is-group>Boolean</is-group>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <uri>String</uri>
    <link>String</link>
  </service_refs>
</service>
```

Create Application Service

Creates a new application service in the system.

URI	/api/juniper/sd/service-management/v5/services
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	createApplications

Sample JSON Input

```
{
  "service" : {
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "uuid" : "String",
    "display_name" : "String",
    "protocols" : {
      "protocol" : [ {
        "sunrpc-protocol-type" : [ "TCP", "UDP" ],
        "msrpc-protocol-type" : [ "TCP", "UDP" ],
        "protocol-number" : "Integer",
```


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```
        "name" : "String",
        "alg" : "String",
        "src-port" : "String",
        "dst-port" : "String",
        "disable-timeout" : "Boolean",
        "inactivity-timeout" : "Integer",
        "protocol-type" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
        "rpc-program-number" : "String",
        "icmp-code" : "Integer",
        "icmp-type" : "Integer",
        "description" : "String",
        "uuid" : "String"
      } ]
    },
    "edit-version" : "Integer",
    "update_number" : "int",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "name" : "String",
    "is-group" : "Boolean",
    "description" : "String",
    "owning_system" : "String",
    "service_refs" : [ {
      "uuid" : "String",
      "name" : "String",
      "display_name" : "String",
      "description" : "String",
      "is-group" : "Boolean",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String"
      }
    } ]
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<service>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <uuid>String</uuid>
  <display_name>String</display_name>
  <protocols>
    <protocol>
      <sunrpc-protocol-type>TCP</sunrpc-protocol-type>
      <sunrpc-protocol-type>UDP</sunrpc-protocol-type>
      <msrpc-protocol-type>TCP</msrpc-protocol-type>
      <msrpc-protocol-type>UDP</msrpc-protocol-type>
      <protocol-number>Integer</protocol-number>
      <name>String</name>
      <alg>String</alg>
      <src-port>String</src-port>
      <dst-port>String</dst-port>
      <disable-timeout>Boolean</disable-timeout>
      <inactivity-timeout>Integer</inactivity-timeout>
      <protocol-type>PROTOCOL_TCP</protocol-type>
      <protocol-type>PROTOCOL_UDP</protocol-type>
      <protocol-type>PROTOCOL_ICMP</protocol-type>
```


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```
        <protocol-type>PROTOCOL_SUN_RPC</protocol-type>
        <protocol-type>PROTOCOL_MS_RPC</protocol-type>
        <protocol-type>PROTOCOL_ICMPV6</protocol-type>
        <protocol-type>PROTOCOL_OTHER</protocol-type>
        <rpc-program-number>String</rpc-program-number>
        <icmp-code>Integer</icmp-code>
        <icmp-type>Integer</icmp-type>
        <description>String</description>
        <uuid>String</uuid>
      </protocol>
    </protocols>
    <edit-version>Integer</edit-version>
    <update_number>int</update_number>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <name>String</name>
    <is-group>Boolean</is-group>
    <description>String</description>
    <owning_system>String</owning_system>
    <service_refs>
      <uuid>String</uuid>
      <name>String</name>
      <display_name>String</display_name>
      <description>String</description>
      <is-group>Boolean</is-group>
      <definition_type>Hidden</definition_type>
      <definition_type>Predefined</definition_type>
      <definition_type>Custom</definition_type>
      <definition_type>All</definition_type>
      <id_perms>
        <created>String</created>
        <creator>String</creator>
        <last_modified>String</last_modified>
      </id_perms>
    </service_refs>
  </service>
```

Sample JSON Output:

```
{
  "service" : {
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "uuid" : "String",
    "display_name" : "String",
    "protocols" : {
      "protocol" : [ {
        "sunrpc-protocol-type" : [ "TCP", "UDP" ],
        "msrpc-protocol-type" : [ "TCP", "UDP" ],
        "protocol-number" : "Integer",
        "name" : "String",
        "alg" : "String",
        "src-port" : "String",
        "dst-port" : "String",
        "disable-timeout" : "Boolean",
        "inactivity-timeout" : "Integer",
        "protocol-type" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
```


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```
      "rpc-program-number" : "String",
      "icmp-code" : "Integer",
      "icmp-type" : "Integer",
      "description" : "String",
      "uuid" : "String",
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "edit-version" : "Integer",
  "update_number" : "int",
  "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "domain-name" : "String",
  "domain-id" : "Integer",
  "name" : "String",
  "is-group" : "Boolean",
  "description" : "String",
  "uri" : "String",
  "link" : "String",
  "owning_system" : "String",
  "service_refs" : [ {
    "uuid" : "String",
    "name" : "String",
    "display_name" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "description" : "String",
    "is-group" : "Boolean",
    "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "uri" : "String",
    "link" : "String"
  } ]
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<service>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <uuid>String</uuid>
  <display_name>String</display_name>
  <protocols>
    <protocol>
      <sunrpc-protocol-type>TCP</sunrpc-protocol-type>
      <sunrpc-protocol-type>UDP</sunrpc-protocol-type>
      <msrpc-protocol-type>TCP</msrpc-protocol-type>
      <msrpc-protocol-type>UDP</msrpc-protocol-type>
      <protocol-number>Integer</protocol-number>
```


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```
        <name>String</name>
        <alg>String</alg>
        <src-port>String</src-port>
        <dst-port>String</dst-port>
        <disable-timeout>Boolean</disable-timeout>
        <inactivity-timeout>Integer</inactivity-timeout>
        <protocol-type>PROTOCOL_TCP</protocol-type>
        <protocol-type>PROTOCOL_UDP</protocol-type>
        <protocol-type>PROTOCOL_ICMP</protocol-type>
        <protocol-type>PROTOCOL_SUN_RPC</protocol-type>
        <protocol-type>PROTOCOL_MS_RPC</protocol-type>
        <protocol-type>PROTOCOL_ICMPV6</protocol-type>
        <protocol-type>PROTOCOL_OTHER</protocol-type>
        <rpc-program-number>String</rpc-program-number>
        <icmp-code>Integer</icmp-code>
        <icmp-type>Integer</icmp-type>
        <description>String</description>
        <uuid>String</uuid>
        <uri>String</uri>
      </protocol>
      <uri>String</uri>
    </protocols>
    <edit-version>Integer</edit-version>
    <update_number>int</update_number>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <is-group>Boolean</is-group>
    <description>String</description>
    <uri>String</uri>
    <link>String</link>
    <owning_system>String</owning_system>
    <service_refs>
      <uuid>String</uuid>
      <name>String</name>
      <display_name>String</display_name>
      <domain-name>String</domain-name>
      <domain-id>Integer</domain-id>
      <description>String</description>
      <is-group>Boolean</is-group>
      <definition_type>Hidden</definition_type>
      <definition_type>Predefined</definition_type>
      <definition_type>Custom</definition_type>
      <definition_type>All</definition_type>
      <id_perms>
        <created>String</created>
        <creator>String</creator>
        <last_modified>String</last_modified>
        <last-modified-by-user-name>String</last-modified-by-user-name>
        <created-time>Date</created-time>
        <last-modified-time>Date</last-modified-time>
      </id_perms>
      <uri>String</uri>
      <link>String</link>
    </service_refs>
  </service>
```


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Delete Application Service by UUID

Deletes a specific application service from the system by its UUID.

URI	/api/juniper/sd/service-management/v5/services/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	DeleteApplication

Retrieve Applications by UUIDs

Fetches detailed application configurations for a given list of UUIDs.

URI	/api/juniper/sd/service-management/v5/get_services_by_uuids
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageApplications

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Sample JSON Input

```
{
  "input" : {
    "object_uuids" : [ "String" ],
    "flatten" : "boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<input>
   <object_uuids>String</object_uuids>
   <flatten>boolean</flatten>
</input>
```

Sample JSON Output:

```
{
  "output" : {
    "value" : [ {
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String",
        "last-modified-by-user-name" : "String",
        "created-time" : "Date",
        "last-modified-time" : "Date"
      },
      "uuid" : "String",
      "display_name" : "String",
      "protocols" : {
        "protocol" : [ {
          "sunrpc-protocol-type" : [ "TCP", "UDP" ],
          "msrpc-protocol-type" : [ "TCP", "UDP" ],
          "protocol-number" : "Integer",
          "name" : "String",
          "alg" : "String",
          "src-port" : "String",
          "dst-port" : "String",
          "disable-timeout" : "Boolean",
          "inactivity-timeout" : "Integer",
          "protocol-type" : [ "PROTOCOL_TCP", "PROTOCOL_UDP", "PROTOCOL_ICMP",
"PROTOCOL_SUN_RPC", "PROTOCOL_MS_RPC", "PROTOCOL_ICMPV6", "PROTOCOL_OTHER" ],
          "rpc-program-number" : "String",
          "icmp-code" : "Integer",
          "icmp-type" : "Integer",
          "description" : "String",
          "uuid" : "String",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "edit-version" : "Integer",
      "update_number" : "int",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "domain-name" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "is-group" : "Boolean",
      "description" : "String",
```


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```
    "uri" : "String",
    "link" : "String",
    "owning_system" : "String",
    "service_refs" : [ {
      "uuid" : "String",
      "name" : "String",
      "display_name" : "String",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "description" : "String",
      "is-group" : "Boolean",
      "definition_type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "id_perms" : {
        "created" : "String",
        "creator" : "String",
        "last_modified" : "String",
        "last-modified-by-user-name" : "String",
        "created-time" : "Date",
        "last-modified-time" : "Date"
      },
      "uri" : "String",
      "link" : "String"
    } ]
  } ],
  "uri" : "String",
  "totalSize" : "int"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<output>
  <value>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <uuid>String</uuid>
    <display_name>String</display_name>
    <protocols>
      <protocol>
        <sunrpc-protocol-type>TCP</sunrpc-protocol-type>
        <sunrpc-protocol-type>UDP</sunrpc-protocol-type>
        <msrpc-protocol-type>TCP</msrpc-protocol-type>
        <msrpc-protocol-type>UDP</msrpc-protocol-type>
        <protocol-number>Integer</protocol-number>
        <name>String</name>
        <alg>String</alg>
        <src-port>String</src-port>
        <dst-port>String</dst-port>
        <disable-timeout>Boolean</disable-timeout>
        <inactivity-timeout>Integer</inactivity-timeout>
        <protocol-type>PROTOCOL_TCP</protocol-type>
        <protocol-type>PROTOCOL_UDP</protocol-type>
        <protocol-type>PROTOCOL_ICMP</protocol-type>
        <protocol-type>PROTOCOL_SUN_RPC</protocol-type>
        <protocol-type>PROTOCOL_MS_RPC</protocol-type>
        <protocol-type>PROTOCOL_ICMPV6</protocol-type>
        <protocol-type>PROTOCOL_OTHER</protocol-type>
```


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```
        <rpc-program-number>String</rpc-program-number>
        <icmp-code>Integer</icmp-code>
        <icmp-type>Integer</icmp-type>
        <description>String</description>
        <uuid>String</uuid>
        <uri>String</uri>
      </protocol>
      <uri>String</uri>
    </protocols>
    <edit-version>Integer</edit-version>
    <update_number>int</update_number>
    <definition_type>Hidden</definition_type>
    <definition_type>Predefined</definition_type>
    <definition_type>Custom</definition_type>
    <definition_type>All</definition_type>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <is-group>Boolean</is-group>
    <description>String</description>
    <uri>String</uri>
    <link>String</link>
    <owning_system>String</owning_system>
    <service_refs>
      <uuid>String</uuid>
      <name>String</name>
      <display_name>String</display_name>
      <domain-name>String</domain-name>
      <domain-id>Integer</domain-id>
      <description>String</description>
      <is-group>Boolean</is-group>
      <definition_type>Hidden</definition_type>
      <definition_type>Predefined</definition_type>
      <definition_type>Custom</definition_type>
      <definition_type>All</definition_type>
      <id_perms>
        <created>String</created>
        <creator>String</creator>
        <last_modified>String</last_modified>
        <last-modified-by-user-name>String</last-modified-by-user-name>
        <created-time>Date</created-time>
        <last-modified-time>Date</last-modified-time>
      </id_perms>
      <uri>String</uri>
      <link>String</link>
    </service_refs>
  </value>
  <uri>String</uri>
  <totalSize>int</totalSize>
</output>
```


Import Predefined Applications

Imports a list of predefined application configurations into the system.

URI	/api/juniper/sd/service-management/v5/applications/import-predefined

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HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	manageApplications

Sample JSON Input

```
{}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
```

Sample JSON Output:

```
{}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```


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CHAPTER 39

URL Category Management RESTful Web Services

The following opertions can be performed using Secuirty Director URL Category Management RESTful Web Services

Retrieve All URL Category Lists (Paginated)

Fetches a paginated list of all configured URL Category Lists.

URI	/api/juniper/sd/utm-management/url-category-lists
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.url-category-lists+xml;version=2;q=0.02 application/vnd.juniper.sd.utm-management.url-category-lists+json;version=2;q=0.02
Access-Control	viewURLCategory

Sample JSON Output:


```
{
  "url-category-lists" : {
    "url-category-list" : [ {
      "domain-id" : "Integer",
      "id" : "Integer",
      "profile-type" : [ "CUSTOM", "SURF_CONTROL", "JUNIPER_ENHANCED", "NG_JUNIPER" ],
      "description" : "String",
      "name" : "String",
      "display-name" : "String",
      "url-patterns" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
```


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```
        "domain-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "domain-name" : "String",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<url-category-lists>
  <url-category-list>
    <domain-id>Integer</domain-id>
    <id>Integer</id>
    <profile-type>CUSTOM</profile-type>
    <profile-type>SURF_CONTROL</profile-type>
    <profile-type>JUNIPER_ENHANCED</profile-type>
    <profile-type>NG_JUNIPER</profile-type>
    <description>String</description>
    <name>String</name>
    <display-name>String</display-name>
    <url-patterns>
      <reference>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <domain-name>String</domain-name>
        <uri>String</uri>
      </reference>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </url-patterns>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <domain-name>String</domain-name>
    <uri>String</uri>
    <link>String</link>
  </url-category-list>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</url-category-lists>
```


Refresh URL Categorization Status

Triggers a refresh of the status for a specific URL Categorization.

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URI	/api/juniper/sd/utm-management/url-categorization/refresh/{id}
HTTP method	GET
Content-Type	None
Accept-Type	None
Access-Control	viewURLCategory

Update URL Categorization

Modifies an existing URL Categorization identified by its ID.

URI	/api/juniper/sd/utm-management/url-categorization/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.utm-management.url-categorization+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.url-categorization+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.url-categorization+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.url-categorization+json;version=1;q=0.01
Access-Control	modifyURLCategory

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Sample JSON Input

```
{
  "url-categorization" : {
    "url" : "String",
    "request-type" : "String",
    "request-category-name" : "String",
    "request-category-id" : "String",
    "update_number" : "int",
    "request-status" : "String",
    "lastUpdatedTs" : "Date",
    "user" : "String",
    "id" : "Integer",
    "uuid" : "String",
    "edit-version" : "Integer"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<url-categorization>
   <url>String</url>
   <request-type>String</request-type>
   <request-category-name>String</request-category-name>
   <request-category-id>String</request-category-id>
   <update_number>int</update_number>
   <request-status>String</request-status>
   <lastUpdatedTs>Date</lastUpdatedTs>
   <user>String</user>
   <id>Integer</id>
   <uuid>String</uuid>
   <edit-version>Integer</edit-version>
</url-categorization>
```

Sample JSON Output:

```
{
  "url-categorization" : {
    "url" : "String",
    "request-type" : "String",
    "request-category-name" : "String",
    "request-category-id" : "String",
    "update_number" : "int",
    "request-status" : "String",
    "lastUpdatedTs" : "Date",
    "user" : "String",
    "id" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uuid" : "String",
    "edit-version" : "Integer"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<url-categorization>
   <url>String</url>
   <request-type>String</request-type>
   <request-category-name>String</request-category-name>
   <request-category-id>String</request-category-id>
   <update_number>int</update_number>
   <request-status>String</request-status>
   <lastUpdatedTs>Date</lastUpdatedTs>
   <user>String</user>
   <id>Integer</id>
   <created-by-user-name>String</created-by-user-name>
```


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```
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uuid>String</uuid>
  <edit-version>Integer</edit-version>
</url-categorization>
```

Retrieve URL Categorization by ID

Fetches the complete detailed configuration of a specific URL Categorization by its ID.

URI	/api/juniper/sd/utm-management/url-categorization/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.url-categorization+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.url-categorization+json;version=1;q=0.01
Access-Control	viewURLCategory

Sample JSON Output:

```
{
  "url-categorization" : {
    "url" : "String",
    "request-type" : "String",
    "request-category-name" : "String",
    "request-category-id" : "String",
    "update_number" : "int",
    "request-status" : "String",
    "lastUpdatedTs" : "Date",
    "user" : "String",
    "id" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uuid" : "String",
    "edit-version" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<url-categorization>
  <url>String</url>
  <request-type>String</request-type>
  <request-category-name>String</request-category-name>
  <request-category-id>String</request-category-id>
  <update_number>int</update_number>
  <request-status>String</request-status>
  <lastUpdatedTs>Date</lastUpdatedTs>
  <user>String</user>
  <id>Integer</id>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uuid>String</uuid>
  <edit-version>Integer</edit-version>
</url-categorization>
```

Retrieve All URL Categorization References (Paginated)

Fetches a paginated list of references to all configured URL Categorizations.

URI	/api/juniper/sd/utm-management/url-categorization
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.url-categorization-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.url-categorization-refs+json;version=1;q=0.01
Access-Control	viewURLCategory

Sample JSON Output:

```
{
  "url-category-lists" : {
    "url-category-list" : [ {
      "url" : "String",
      "request-type" : "String",
      "request-category-name" : "String",
      "request-category-id" : "String",
      "request-status" : "String",
      "lastUpdatedTs" : "Date",
      "user" : "String",
      "id" : "Integer",
```


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```
      "created-by-user-name" : "String",
      "last-modified-by-user-name" : "String",
      "uri" : "String",
      "uuid" : "String"
    } ],
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<url-category-lists>
  <url-category-list>
    <url>String</url>
    <request-type>String</request-type>
    <request-category-name>String</request-category-name>
    <request-category-id>String</request-category-id>
    <request-status>String</request-status>
    <lastUpdatedTs>Date</lastUpdatedTs>
    <user>String</user>
    <id>Integer</id>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <uri>String</uri>
    <uuid>String</uuid>
  </url-category-list>
  <totalSize>Integer</totalSize>
</url-category-lists>
```


Delete URL Categorization

Deletes a specific URL Categorization from the system by its ID.

URI	/api/juniper/sd/utm-management/url-categorization/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteURLCategory

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Create URL Categorization

Creates a new URL Categorization configuration.

URI	/api/juniper/sd/utm-management/url-categorization
HTTP method	POST
Content-Type	application/vnd.juniper.sd.utm-management.url-categorization+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.url-categorization+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.url-categorization+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.url-categorization+json;version=1;q=0.01
Access-Control	createURLCategory

Sample JSON Input

```
{
  "url-categorization" : {
    "url" : "String",
    "request-type" : "String",
    "request-category-name" : "String",
    "request-category-id" : "String",
    "update_number" : "int",
    "request-status" : "String",
    "lastUpdatedTs" : "Date",
    "user" : "String",
    "id" : "Integer",
    "uuid" : "String",
    "edit-version" : "Integer"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<url-categorization>
   <url>String</url>
   <request-type>String</request-type>
   <request-category-name>String</request-category-name>
   <request-category-id>String</request-category-id>
   <update_number>int</update_number>
   <request-status>String</request-status>
   <lastUpdatedTs>Date</lastUpdatedTs>
   <user>String</user>
   <id>Integer</id>
```


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```
  <uuid>String</uuid>
  <edit-version>Integer</edit-version>
</url-categorization>
```

Sample JSON Output:

```
{
  "url-categorization" : {
    "url" : "String",
    "request-type" : "String",
    "request-category-name" : "String",
    "request-category-id" : "String",
    "update_number" : "int",
    "request-status" : "String",
    "lastUpdatedTs" : "Date",
    "user" : "String",
    "id" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uuid" : "String",
    "edit-version" : "Integer"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<url-categorization>
  <url>String</url>
  <request-type>String</request-type>
  <request-category-name>String</request-category-name>
  <request-category-id>String</request-category-id>
  <update_number>int</update_number>
  <request-status>String</request-status>
  <lastUpdatedTs>Date</lastUpdatedTs>
  <user>String</user>
  <id>Integer</id>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uuid>String</uuid>
  <edit-version>Integer</edit-version>
</url-categorization>
```

Modify URL Category

This request is used to modify the URL category list.

URI	/api/juniper/sd/utm-management/url-category-lists/{id}
HTTP method	PUT

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Content-Type	application/vnd.juniper.sd.utm-management.url-category-list+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.url-category-list+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.url-category-list+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.url-category-list+json;version=1;q=0.01
Access-Control	modifyURLCategory

Sample JSON Input

```
{
  "url-category-list" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "profile-type" : [ "CUSTOM", "SURF_CONTROL", "JUNIPER_ENHANCED", "NG_JUNIPER" ],
    "url-patterns" : {
      "url-pattern" : [ { } ]
    },
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "display-name" : "String",
    "update_number" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<url-category-list>
   <name>String</name>
   <description>String</description>
   <id>Integer</id>
   <edit-version>Integer</edit-version>
   <definition-type>Hidden</definition-type>
   <definition-type>Predefined</definition-type>
   <definition-type>Custom</definition-type>
   <definition-type>All</definition-type>
   <profile-type>CUSTOM</profile-type>
   <profile-type>SURF_CONTROL</profile-type>
   <profile-type>JUNIPER_ENHANCED</profile-type>
   <profile-type>NG_JUNIPER</profile-type>
   <url-patterns>
      <url-pattern/>
   </url-patterns>
   <uuid>String</uuid>
   <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
```


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```
  </id_perms>
  <display-name>String</display-name>
  <update_number>int</update_number>
</url-category-list>
```

Sample JSON Output:

```
{
 "url-category-list" : {
  "name" : "String",
  "description" : "String",
  "domain-name" : "String",
  "domain-id" : "Integer",
  "id" : "Integer",
  "edit-version" : "Integer",
  "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "profile-type" : [ "CUSTOM", "SURF_CONTROL", "JUNIPER_ENHANCED", "NG_JUNIPER" ],
  "url-patterns" : {
   "url-pattern" : [ { } ],
   "uri" : "String"
  },
  "created-by-user-name" : "String",
  "last-modified-by-user-name" : "String",
  "uri" : "String",
  "uuid" : "String",
  "id_perms" : {
   "created" : "String",
   "creator" : "String",
   "last_modified" : "String",
   "last-modified-by-user-name" : "String",
   "created-time" : "Date",
   "last-modified-time" : "Date"
  },
  "display-name" : "String",
  "update_number" : "int"
 }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<url-category-list>
  <name>String</name>
  <description>String</description>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <profile-type>CUSTOM</profile-type>
  <profile-type>SURF_CONTROL</profile-type>
  <profile-type>JUNIPER_ENHANCED</profile-type>
  <profile-type>NG_JUNIPER</profile-type>
  <url-patterns>
    <url-pattern/>
    <uri>String</uri>
  </url-patterns>
  <created-by-user-name>String</created-by-user-name>
```


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```
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display-name>String</display-name>
  <update_number>int</update_number>
</url-category-list>
```

Get URL Category by ID

This request is used to list the URL Category information by ID.

URI	/api/juniper/sd/utm-management/url-category-lists/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.url-category-list+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.url-category-list+json;version=1;q=0.01
Access-Control	viewURLCategory

Sample JSON Output:

```
{
  "url-category-list" : {
    "name" : "String",
    "description" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "profile-type" : [ "CUSTOM", "SURF_CONTROL", "JUNIPER_ENHANCED", "NG_JUNIPER" ],
    "url-patterns" : {
      "url-pattern" : [ { } ],
      "uri" : "String"
    },
```


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```
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display-name" : "String",
    "update_number" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<url-category-list>
  <name>String</name>
  <description>String</description>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <profile-type>CUSTOM</profile-type>
  <profile-type>SURF_CONTROL</profile-type>
  <profile-type>JUNIPER_ENHANCED</profile-type>
  <profile-type>NG_JUNIPER</profile-type>
  <url-patterns>
    <url-pattern/>
    <uri>String</uri>
  </url-patterns>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display-name>String</display-name>
  <update_number>int</update_number>
</url-category-list>
```


Get All URL Categories

This request is used to collect all the URL category objects that are configured in Security Director.

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URI	/api/juniper/sd/utm-management/url-category-lists
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.url-category-list-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.url-category-list-refs+json;version=1;q=0.01
Access-Control	viewURLCategory

Sample JSON Output:


```
{
  "url-category-lists" : {
    "url-category-list" : [ {
      "name" : "String",
      "display-name" : "String",
      "description" : "String",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "id" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "profile-type" : [ "CUSTOM", "SURF_CONTROL", "JUNIPER_ENHANCED", "NG_JUNIPER" ],
      "link" : "String",
      "uri" : "String",
      "global" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<url-category-lists>
  <url-category-list>
    <name>String</name>
    <display-name>String</display-name>
    <description>String</description>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <id>Integer</id>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <profile-type>CUSTOM</profile-type>
    <profile-type>SURF_CONTROL</profile-type>
    <profile-type>JUNIPER_ENHANCED</profile-type>
```


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```
    <profile-type>NG_JUNIPER</profile-type>
    <link>String</link>
    <uri>String</uri>
    <global>String</global>
  </url-category-list>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</url-category-lists>
```

Delete URL Category

This request is used to delete the URL category by ID.

URI	/api/juniper/sd/utm-management/url-category-lists/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteURLCategory

Create URL Category

This request is used to create a URL category.

URI	/api/juniper/sd/utm-management/url-category-lists
HTTP method	POST
Content-Type	application/vnd.juniper.sd.utm-management.url-category-list+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.url-category-list+json;version=1;charset=UTF-8

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Accept-Type	application/vnd.juniper.sd.utm-management.url-category-list+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.url-category-list+json;version=1;q=0.01
Access-Control	createURLCategory

Sample JSON Input

```
{
  "url-category-list" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "profile-type" : [ "CUSTOM", "SURF_CONTROL", "JUNIPER_ENHANCED", "NG_JUNIPER" ],
    "url-patterns" : {
      "url-pattern" : [ { } ]
    },
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "display-name" : "String",
    "update_number" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<url-category-list>
   <name>String</name>
   <description>String</description>
   <id>Integer</id>
   <edit-version>Integer</edit-version>
   <definition-type>Hidden</definition-type>
   <definition-type>Predefined</definition-type>
   <definition-type>Custom</definition-type>
   <definition-type>All</definition-type>
   <profile-type>CUSTOM</profile-type>
   <profile-type>SURF_CONTROL</profile-type>
   <profile-type>JUNIPER_ENHANCED</profile-type>
   <profile-type>NG_JUNIPER</profile-type>
   <url-patterns>
      <url-pattern/>
   </url-patterns>
   <uuid>String</uuid>
   <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
   </id_perms>
   <display-name>String</display-name>
   <update_number>int</update_number>
</url-category-list>
```


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Sample JSON Output:


```
{
  "url-category-list" : {
    "name" : "String",
    "description" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "profile-type" : [ "CUSTOM", "SURF_CONTROL", "JUNIPER_ENHANCED", "NG_JUNIPER" ],
    "url-patterns" : {
      "url-pattern" : [ { } ],
      "uri" : "String"
    },
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display-name" : "String",
    "update_number" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<url-category-list>
    <name>String</name>
    <description>String</description>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <id>Integer</id>
    <edit-version>Integer</edit-version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <profile-type>CUSTOM</profile-type>
    <profile-type>SURF_CONTROL</profile-type>
    <profile-type>JUNIPER_ENHANCED</profile-type>
    <profile-type>NG_JUNIPER</profile-type>
    <url-patterns>
      <url-pattern/>
      <uri>String</uri>
    </url-patterns>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <uri>String</uri>
    <uuid>String</uuid>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <created-time>Date</created-time>
```


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```
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display-name>String</display-name>
  <update_number>int</update_number>
</url-category-list>
```


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CHAPTER 40

URL Category Update Managemet Restful Web Services

The following opertions can be performed using Secuirty Director URL Category Update Managemet Restful Web Services

Download And Save Url Category File.

Downalod the category file with version, save, probe and install on security devices.

URI	/api/juniper/sd/utm-management/urlcategory-management/save-download-config?version=Integer&install=Boolean
HTTP method	POST
Content-Type	application/vnd.juniper.sd.urlcategory-management.save-urlcategory-download-para-request+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.urlcategory-management.save-urlcategory-download-para-request+json;version=1;charset=UTF-8
Accept-Type	application/vnd.net.juniper.space.job-management.task+xml;version=1;q=0.01 application/vnd.net.juniper.space.job-management.task+json;version=1;q=0.01
Access-Control	downloadUrlCategory

Sample JSON Input


```
{
  "url-download-request" : {
    "x-date" : "String",
    "schedule-later-time" : "String",
    "repeat" : "Integer",
    "unit" : "String",
    "end-time" : "String",
    "selected-days" : {
      "serialVersionUID" : "long",
      "DEFAULT_CAPACITY" : "int",
      "EMPTY_ELEMENTDATA" : "[]",
      "DEFAULTCAPACITY_EMPTY_ELEMENTDATA" : "[]",
      "elementData" : "[]",
      "size" : "int",
```


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```
    "MAX_ARRAY_SIZE" : "int"
   }
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<url-download-request>
  <x-date>String</x-date>
  <schedule-later-time>String</schedule-later-time>
  <repeat>Integer</repeat>
  <unit>String</unit>
  <end-time>String</end-time>
  <selected-days>
    <serialVersionUID>long</serialVersionUID>
    <DEFAULT_CAPACITY>int</DEFAULT_CAPACITY>
    <EMPTY_ELEMENTDATA>[]</EMPTY_ELEMENTDATA>

<DEFAULTCAPACITY_EMPTY_ELEMENTDATA>[]</DEFAULTCAPACITY_EMPTY_ELEMENTDATA>
    <elementData>[]</elementData>
    <size>int</size>
    <MAX_ARRAY_SIZE>int</MAX_ARRAY_SIZE>
  </selected-days>
```

Sample JSON Output:

```
{
 "monitorable-task-instances" : {
  "monitorable-task-instance-managed-object" : [ {
    "supports-recurrence" : "Boolean",
    "repeat-cron" : "String",
    "mo-state" : "String",
    "schedule-string" : "String",
    "job-status" : [ "UNDETERMINED", "INCOMPLETE", "FAILURE", "SUCCESS", "CANCELLED",
"DEPRECATED" ],
    "job-parameter-data-string" : "String",
    "gui-name" : "String",
    "job-state" : [ "SCHEDULED", "QUEUED", "STARTING", "INPROGRESS", "DONE", "CANCELLING",
"DISABLED" ],
    "start-time-string-rest" : "String",
    "device-image-name" : "String",
    "end-time" : "Date",
    "task-name" : "String",
    "service-name" : "String",
    "id" : "String",
    "start-time" : "Date",
    "operation" : "String",
    "details" : "String",
    "details-action-type" : "String",
    "name" : "String",
    "scheduled-start-time-string-rest" : "String",
    "retry-of-id" : "Integer",
    "scheduled-start-time" : "Date",
    "script-bundle-selected" : "String",
    "details-action-url" : "String",
    "end-time-string-rest" : "String",
    "job-params-action-url" : "String",
    "percent-complete" : "Double",
    "is-enabled" : "Boolean",
    "retry-group-id" : "Integer",
    "job-params-summary" : "String",
```


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```
      "complete-time" : "Integer",
      "user" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<monitorable-task-instances>
  <monitorable-task-instance-managed-object>
    <supports-recurrence>Boolean</supports-recurrence>
    <repeat-cron>String</repeat-cron>
    <mo-state>String</mo-state>
    <schedule-string>String</schedule-string>
    <job-status>UNDETERMINED</job-status>
    <job-status>INCOMPLETE</job-status>
    <job-status>FAILURE</job-status>
    <job-status>SUCCESS</job-status>
    <job-status>CANCELLED</job-status>
    <job-status>DEPRECATED</job-status>
    <job-parameter-data-string>String</job-parameter-data-string>
    <gui-name>String</gui-name>
    <job-state>SCHEDULED</job-state>
    <job-state>QUEUED</job-state>
    <job-state>STARTING</job-state>
    <job-state>INPROGRESS</job-state>
    <job-state>DONE</job-state>
    <job-state>CANCELLING</job-state>
    <job-state>DISABLED</job-state>
    <start-time-string-rest>String</start-time-string-rest>
    <device-image-name>String</device-image-name>
    <end-time>Date</end-time>
    <task-name>String</task-name>
    <service-name>String</service-name>
    <id>String</id>
    <start-time>Date</start-time>
    <operation>String</operation>
    <details>String</details>
    <details-action-type>String</details-action-type>
    <name>String</name>
    <scheduled-start-time-string-rest>String</scheduled-start-time-string-rest>
    <retry-of-id>Integer</retry-of-id>
    <scheduled-start-time>Date</scheduled-start-time>
    <script-bundle-selected>String</script-bundle-selected>
    <details-action-url>String</details-action-url>
    <end-time-string-rest>String</end-time-string-rest>
    <job-params-action-url>String</job-params-action-url>
    <percent-complete>Double</percent-complete>
    <is-enabled>Boolean</is-enabled>
    <retry-group-id>Integer</retry-group-id>
    <job-params-summary>String</job-params-summary>
    <complete-time>Integer</complete-time>
    <user>String</user>
    <uri>String</uri>
  </monitorable-task-instance-managed-object>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</monitorable-task-instances>
```


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Get Downloaded Url Category File

Url category fIle download details like name, version etc.

URI	/api/juniper/sd/utm-management/urlcategory-management/url-category-files
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/json
Access-Control	DefaultRead

Sample JSON Output:

```
{
  "response" : {
    "name" : "String",
    "file-version" : "Integer",
    "publish-date" : "Long",
    "supported-junos" : "String",
    "uri" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<response>
   <name>String</name>
   <file-version>Integer</file-version>
   <publish-date>Long</publish-date>
   <supported-junos>String</supported-junos>
   <uri>String</uri>
</response>
```

Get Url Category Settings

User made setting details like url, certificate file.

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URI	/api/juniper/sd/utm-management/urlcategory-management/url-category-setting
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/json
Access-Control	DefaultRead

Sample JSON Output:

```
{
  "url-category-setting" : {
    "url" : "String",
    "server-certificate-file" : "String",
    "certificate-detail" : "String",
    "enable-proxy" : "Boolean"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<url-category-setting>
   <url>String</url>
   <server-certificate-file>String</server-certificate-file>
   <certificate-detail>String</certificate-detail>
   <enable-proxy>Boolean</enable-proxy>
</url-category-setting>
```

Get Base Filter

Get Base Filter By Id.

URI	/api/juniper/sd/utm-management/urlcategory-management/base-filters/{id}
HTTP method	GET
Content-Type	None

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Accept-Type	application/json application/json
Access-Control	DefaultRead

Sample JSON Output:


```
{
  "category-base-filter" : {
    "name" : "String",
    "id" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "domain-id" : "Integer",
    "domain-name" : "String",
    "created-by-user-name" : "String",
    "global" : "String",
    "last-modified-by-user-name" : "String",
    "created-time" : "Date",
    "last-modified-time" : "Date",
    "version" : "int",
    "edit-version" : "Integer",
    "image-name" : "String",
    "owning-system" : "String",
    "tool-tip-string" : "String",
    "uri" : "String",
    "category-actions" : {
      "category-action" : [ {
        "name" : "String",
        "displayName" : "String",
        "action" : "String"
      } ]
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<category-base-filter>
    <name>String</name>
    <id>Integer</id>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <created-by-user-name>String</created-by-user-name>
    <global>String</global>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
    <version>int</version>
    <edit-version>Integer</edit-version>
    <image-name>String</image-name>
    <owning-system>String</owning-system>
    <tool-tip-string>String</tool-tip-string>
    <uri>String</uri>
    <category-actions>
      <category-action>
        <name>String</name>
```


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```
        <displayName>String</displayName>
        <action>String</action>
      </category-action>
    </category-actions>
</category-base-filter>
```

Get All Base Filters

Get All Base Filters.

URI	/api/juniper/sd/utm-management/urlcategory-management/base-filters
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/json
Access-Control	DefaultRead

Sample JSON Output:


```
{
  "category-base-filters" : {
    "category-base-filter" : [ {
      "name" : "String",
      "id" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "domain-id" : "Integer",
      "domain-name" : "String",
      "created-by-user-name" : "String",
      "global" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date",
      "version" : "int",
      "edit-version" : "Integer",
      "image-name" : "String",
      "owning-system" : "String",
      "tool-tip-string" : "String",
      "uri" : "String",
      "category-actions" : {
        "category-action" : [ {
          "name" : "String",
```


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```
        "displayName" : "String",
        "action" : "String"
      } ]
    }
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<category-base-filters>
  <category-base-filter>
    <name>String</name>
    <id>Integer</id>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <created-by-user-name>String</created-by-user-name>
    <global>String</global>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
    <version>int</version>
    <edit-version>Integer</edit-version>
    <image-name>String</image-name>
    <owning-system>String</owning-system>
    <tool-tip-string>String</tool-tip-string>
    <uri>String</uri>
    <category-actions>
      <category-action>
        <name>String</name>
        <displayName>String</displayName>
        <action>String</action>
      </category-action>
    </category-actions>
  </category-base-filter>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</category-base-filters>
```


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CHAPTER 41

URL Pattern Management RESTful Web Services

The following opertions can be performed using Secuirty Director URL Pattern Management RESTful Web Services

Modify URL Pattern

This request is used to modify a URL pattern.

URI	/api/juniper/sd/utm-management/url-patterns/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.utm-management.url-patterns+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.url-patterns+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.url-patterns+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.url-patterns+json;version=1;q=0.01
Access-Control	modifyURLPattern

Sample JSON Input

```
{
  "url-pattern" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "address-patterns" : {
      "address-pattern" : [ "String" ]
    },
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "uuid" : "String",
    "id_perms" : {
```


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```
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<url-pattern>
  <name>String</name>
  <description>String</description>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <address-patterns>
    <address-pattern>String</address-pattern>
  </address-patterns>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</url-pattern>
```

Sample JSON Output:

```
{
  "url-pattern" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "address-patterns" : {
      "address-pattern" : [ "String" ],
      "uri" : "String"
    },
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<url-pattern>
  <name>String</name>
  <description>String</description>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <address-patterns>
    <address-pattern>String</address-pattern>
    <uri>String</uri>
  </address-patterns>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</url-pattern>
```

Get URL Pattern by ID

This request is used to list the URL pattern information by ID.

URI	/api/juniper/sd/utm-management/url-patterns/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.url-patterns+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.url-patterns+json;version=1;q=0.01

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Sample JSON Output:


```
{
  "url-pattern" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "address-patterns" : {
      "address-pattern" : [ "String" ],
      "uri" : "String"
    },
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<url-pattern>
    <name>String</name>
    <description>String</description>
    <id>Integer</id>
    <edit-version>Integer</edit-version>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <address-patterns>
        <address-pattern>String</address-pattern>
        <uri>String</uri>
    </address-patterns>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <uri>String</uri>
    <uuid>String</uuid>
    <id_perms>
        <created>String</created>
        <creator>String</creator>
        <last_modified>String</last_modified>
        <last-modified-by-user-name>String</last-modified-by-user-name>
        <created-time>Date</created-time>
```


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```
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</url-pattern>
```

Get All URL Patterns

This request is used to collect all the URL pattern objects configured in Security Director.

URI	/api/juniper/sd/utm-management/url-patterns
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.url-patterns-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.url-patterns-refs+json;version=1;q=0.01
Access-Control	viewURLPattern

Sample JSON Output:


```
{
  "url-patterns" : {
    "url-pattern" : [ {
      "name" : "String",
      "description" : "String",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "address-patterns" : {
        "address-pattern" : [ "String" ],
        "uri" : "String"
      },
      "id" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "link" : "String",
      "uri" : "String",
      "global" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
```


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```
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<url-patterns>
  <url-pattern>
    <name>String</name>
    <description>String</description>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <address-patterns>
      <address-pattern>String</address-pattern>
      <uri>String</uri>
    </address-patterns>
    <id>Integer</id>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <link>String</link>
    <uri>String</uri>
    <global>String</global>
  </url-pattern>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</url-patterns>
```

Delete URL Pattern

This request is used to delete the URL patterns by ID.

URI	/api/juniper/sd/utm-management/url-patterns/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteURLPattern

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Create URL Pattern

This request is used to create a new URL pattern.

URI	/api/juniper/sd/utm-management/url-patterns
HTTP method	POST
Content-Type	application/vnd.juniper.sd.utm-management.url-patterns+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.url-patterns+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.url-patterns+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.url-patterns+json;version=1;q=0.01
Access-Control	createURLPattern

Sample JSON Input

```
{
  "url-pattern" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "address-patterns" : {
      "address-pattern" : [ "String" ]
    },
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<url-pattern>
  <name>String</name>
  <description>String</description>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <address-patterns>
    <address-pattern>String</address-pattern>
  </address-patterns>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</url-pattern>
```

Sample JSON Output:

```
{
 "url-pattern" : {
   "name" : "String",
   "description" : "String",
   "id" : "Integer",
   "edit-version" : "Integer",
   "domain-name" : "String",
   "domain-id" : "Integer",
   "address-patterns" : {
     "address-pattern" : [ "String" ],
     "uri" : "String"
   },
   "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
   "created-by-user-name" : "String",
   "last-modified-by-user-name" : "String",
   "uri" : "String",
   "uuid" : "String",
   "id_perms" : {
     "created" : "String",
     "creator" : "String",
     "last_modified" : "String",
     "last-modified-by-user-name" : "String",
     "created-time" : "Date",
     "last-modified-time" : "Date"
   },
   "display_name" : "String",
   "update_number" : "int"
 }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<url-pattern>
  <name>String</name>
  <description>String</description>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
```


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```
  <address-patterns>
    <address-pattern>String</address-pattern>
    <uri>String</uri>
  </address-patterns>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</url-pattern>
```


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CHAPTER 42

UTM Default Configuration RESTful Web Service

The following opertions can be performed using Secuirty Director UTM Default Configuration RESTful Web Service

Modify UTM Default Configuration

Modifies an existing UTM Default Configuration identified by its ID.

URI	/api/juniper/sd/utm-management/utm-default-configurations/{id}
HTTP method	PUT
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	modifyUTMDefaultConfiguration

Sample JSON Input

```
{
  "utm-default-configuration" : {
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "edit-version" : "Integer",
    "id" : "Integer",
    "description" : "String",
    "cf-default-config" : {
      "profile" : {
        "permit-command-list" : {
          "permit-command" : [ "String" ]
        },
        "block-content-type-list" : {
          "block-content-type" : [ "ACTIVEX", "EXE", "JAVA_APPLET", "HTTP_COOKIE", "ZIP" ]
        },
        "block-file-extension-list" : {
          "block-file-extension" : [ "String" ]
        },
```


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```
      "hash-key" : "String",
      "block-mime-list" : {
        "block-mime" : [ "String" ]
      },
      "description" : "String",
      "name" : "String",
      "notification-options" : {
        "custom-notification-message" : "String",
        "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
        "custom-notification-subject" : "String",
        "notify-mail-sender" : "Boolean"
      },
      "block-mime-exception-list" : {
        "block-mime-exception" : [ "String" ]
      },
      "block-command-list" : {
        "block-command" : [ "String" ]
      }
    },
    "description" : "String",
    "name" : "String",
    "content-filtering-type" : [ "SBL", "CONTENT_FILTERING_NONE" ],
    "uuid" : "String"
  },
  "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
  "wf-default-config" : {
    "url-category-action-list" : {
      "url-category-action" : [ {
        "action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
        "reputation-action" : {
          "moderately-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "harmful" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "suspicious" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "very-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "fairly-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ]
        },
        "redirect-profile" : { },
        "url-category-list" : { },
        "redirectProfileDetail" : "String"
      } ]
    },
    "fs-timeout" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
    "port" : "Integer",
    "base-filter" : {
      "id" : "Integer",
      "name" : "String",
      "uuid" : "String",
      "object-type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
"UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT",
"DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
```


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"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP"]
},
"routing-instance" : "String",
"wf-url-category-white-list" : {
"id" : "Integer",
"name" : "String",
"uuid" : "String",
"object-type" : ["VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
"UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT",
"DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP"]
},
"proxy-profile" : {
"port-number" : "Integer",
"hash-key" : "String",
"name" : "String",
"host-name" : "String",
"connection-type" : ["SERVE_IP", "HOST_NAME"],
"ip-address" : "String"
},
"block-msg-url" : "String",
"fs-default" : ["PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE"],
"quarantine-msg-type" : ["CUSTOM_REDIRECT_URL", "NONE"],
"http-reassemble" : "Boolean",
"http-persist" : "Boolean",
"quarantine-custom-message" : "String",
"description" : "String",
"name" : "String",
"safe-search" : "Boolean",
"fs-server-connectivity" : ["PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE"],
"custom-block-message" : "String",
"wf-url-category-black-list" : {
"id" : "Integer",
"name" : "String",
"uuid" : "String",
"object-type" : ["VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
"UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT",
"DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",

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```
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP" ]
      },
      "default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "block-msg-type" : [ "CUSTOM_REDIRECT_URL", "NONE" ],
      "server-host" : "String",
      "sockets" : "Integer",
      "hash-key" : "String",
      "profile-type" : [ "WEBSENSE", "LOCAL", "JUNIPER_ENHANCED", "NONE" ],
      "account" : "String",
      "cache-timeout" : "Integer",
      "timeout" : "Integer",
      "quarantine-msg-url" : "String",
      "fs-too-many-requests" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "cache-size" : "Integer",
      "very-safe-level" : "Integer",
      "moderately-safe-level" : "Integer",
      "fairly-safe-level" : "Integer",
      "suspicious-level" : "Integer",
      "site-reputation-actions" : {
        "moderately-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
        "harmful" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
        "suspicious" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
        "very-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
        "fairly-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ]
      },
      "uuid" : "String"
    },
    "av-default-config" : {
      "av-scan-options" : {
        "uri-check" : "Boolean",
        "content-size-limit" : "Integer",
        "decompress-layer-limit" : "Integer",
        "timeout" : "Integer",
        "pre-detection" : "Boolean"
      },
      "image-name" : "String",
      "edit-version" : "Integer",
      "av-mime-white-list" : {
        "av-mime" : [ "String" ]
      },
      "av-mime-exception-white-list" : {
        "av-mime-exception" : [ "String" ]
      },
      "pattern-update" : {
        "start-time" : "String",
        "no-auto-update" : "Boolean",
        "interval" : "Integer",
        "url" : "String",
        "proxy-profile" : {
          "name" : "String",
          "id" : "Integer"
        },
        "pattern-updateouting-instance" : "String"
      },
      "pattern-update-proxy" : {
        "server" : "String",
        "port" : "Integer",
        "username" : "String",
        "password" : "String"
      },
      "id" : "Integer",
      "version" : "Integer",
      "sophos-engine-options" : {
        "virus-detection-notification-options" : {
```


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```
        "custom-notification-message" : "String",
        "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
        "custom-notification-subject" : "String",
        "notify-mail-sender" : "Boolean",
        "this$0" : { }
      },
      "fall-back-block-notification-options" : {
        "custom-notification-message" : "String",
        "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
        "custom-notification-subject" : "String",
        "notify-mail-sender" : "Boolean"
      },
      "routing-instance" : "String",
      "fallback-non-block-notification-options" : {
        "custom-notification-message" : "String",
        "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
        "custom-notification-subject" : "String",
        "notify-mail-sender" : "Boolean"
      },
      "trickling-timeout" : "Integer",
      "sxl-retry" : "Integer",
      "sxl-timeout" : "Integer",
      "fall-back-options" : {
        "engine-not-ready" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
        "content-size" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
        "too-many-requests" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
        "default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
        "out-of-resouces" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
        "engine-scan-timeout" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ]
      },
      "retry" : "Integer",
      "server-ip" : "String",
      "timeout-sophos" : "Integer"
    },
    "predefined" : "Boolean",
    "profile-type" : [ "SOPHOS", "AVIRA", "NONE" ],
    "avira-load-flavour" : [ "LIGHT", "HEAVY" ],
    "email-notify-settings" : {
      "custom-msg" : "String",
      "custom-msg-subject" : "String",
      "admin-email" : "String"
    },
    "av-url-category-white-list" : {
      "name" : "String",
      "id" : "Integer"
    },
    "uuid" : "String"
  },
  "name" : "String",
  "as-default-config" : {
    "as-profile-type" : [ "SBL", "ANTI_SPAM_NONE" ],
    "as-address-white-list" : {
      "id" : "Integer",
      "name" : "String",
      "uuid" : "String",
      "object-type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
```


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"UTM_DEVICE_PROFILE", "UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE",
"SD_PROVISIONING_RESULT", "DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP"]
      },
      "default-action" : ["BLOCK_EMAIL", "NONE", "TAG_HEADER", "TAG_SUBJECT"],
      "default-sbl-server" : "Boolean",
      "description" : "String",
      "name" : "String",
      "tag-string" : "String",
      "as-address-black-list" : {
        "id" : "Integer",
        "name" : "String",
        "uuid" : "String",
        "object-type" : ["VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
"UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT",
"DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP"]
      },
      "uuid" : "String"
    },
    "uuid" : "String",
    "device-list" : {
      "device-lite" : [{
        "moid" : "String",
        "id" : "Integer",
        "name" : "String"
      }]
    }
  }

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<utm-default-configuration>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <edit-version>Integer</edit-version>
  <id>Integer</id>
  <description>String</description>
  <cf-default-config>
    <profile>
      <permit-command-list>
        <permit-command>String</permit-command>
      </permit-command-list>
      <block-content-type-list>
```


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```
        <block-content-type>ACTIVEX</block-content-type>
        <block-content-type>EXE</block-content-type>
        <block-content-type>JAVA_APPLET</block-content-type>
        <block-content-type>HTTP_COOKIE</block-content-type>
        <block-content-type>ZIP</block-content-type>
      </block-content-type-list>
      <block-file-extension-list>
        <block-file-extension>String</block-file-extension>
      </block-file-extension-list>
      <hash-key>String</hash-key>
      <block-mime-list>
        <block-mime>String</block-mime>
      </block-mime-list>
      <description>String</description>
      <name>String</name>
      <notification-options>
        <custom-notification-message>String</custom-notification-message>
        <notification-type>PROTOCOL</notification-type>
        <notification-type>MESSAGE</notification-type>
        <notification-type>NONE</notification-type>
        <custom-notification-subject>String</custom-notification-subject>
        <notify-mail-sender>Boolean</notify-mail-sender>
      </notification-options>
      <block-mime-exception-list>
        <block-mime-exception>String</block-mime-exception>
      </block-mime-exception-list>
      <block-command-list>
        <block-command>String</block-command>
      </block-command-list>
    </profile>
    <description>String</description>
    <name>String</name>
    <content-filtering-type>SBL</content-filtering-type>
    <content-filtering-type>CONTENT_FILTERING_NONE</content-filtering-type>
    <uuid>String</uuid>
  </cf-default-config>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
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  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
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        <action>LOG_AND_PERMIT</action>
        <action>BLOCK</action>
        <action>QUARANTINE</action>
        <action>NONE</action>
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          <harmful>BLOCK</harmful>
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          <suspicious>BLOCK</suspicious>
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        <fairly-safe>NONE</fairly-safe>
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  <object-type>MACHINE_IDENTITY</object-type>
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<object-type>SERVICE</object-type>
<object-type>PORTSET</object-type>
<object-type>APPLICATION_SIGNATURE</object-type>
<object-type>IPS_SIGNATURE</object-type>
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<object-type>IPS_POLICY</object-type>
<object-type>IPSRULE_TYPE</object-type>
<object-type>POLICY</object-type>
<object-type>DCRULE_TYPE</object-type>
<object-type>NATRULE_TYPE</object-type>
<object-type>APBR_RULE_TYPE</object-type>
<object-type>APP_FW_RULE_TYPE</object-type>
<object-type>NAT_RULE_SET</object-type>
<object-type>NAT_POOL</object-type>
<object-type>VPNDEVICE_TYPE</object-type>
<object-type>VPNENDPOINT_TYPE</object-type>
<object-type>VARIABLE_DEFINITION</object-type>
<object-type>POLYZONEDEF_TYPE</object-type>
<object-type>SOURCEIDENTITY_TYPE</object-type>
<object-type>SECURITY_DEVICE</object-type>
<object-type>EXTRANET_DEVICE</object-type>
<object-type>IPSSIGSET_TYPE</object-type>
<object-type>SCHEDULER</object-type>
<object-type>ZONESET</object-type>
<object-type>ANTI_SPAM_PROFILE</object-type>
<object-type>ANTI_VIRUS_PROFILE</object-type>
<object-type>CONTENT_FILTERING_PROFILE</object-type>
<object-type>WEB_FILTERING_PROFILE</object-type>
<object-type>URL_CATEGORY_LIST</object-type>
<object-type>EMAIL_ADDRESS_PATTERN</object-type>
<object-type>URL_CATEGORIZATION_LIST</object-type>
<object-type>UTM_DEVICE_PROFILE</object-type>
<object-type>UTM_POLICY</object-type>
<object-type>POLICY_PROFILE</object-type>
<object-type>VPNPROFILE_TYPE</object-type>
<object-type>SD_PROVISIONING_RESULT</object-type>
<object-type>DYNAMIC_ADDRESS</object-type>
<object-type>CHANGE_REQUEST</object-type>
<object-type>APP_FW_POLICY</object-type>
<object-type>CHANGE_REQUEST_DEPLOYED</object-type>
<object-type>THREAT_POLICY</object-type>
<object-type>BASE_FILTER</object-type>
<object-type>ACTIVE_DIRECTORY</object-type>
<object-type>IDENTITY_MANAGEMENT</object-type>
<object-type>MACHINE_IDENTITY</object-type>
<object-type>CONDITION</object-type>
<object-type>ENVIRONMENT_VARIABLE</object-type>
<object-type>METADATA</object-type>
<object-type>METADATAEXPRESSION</object-type>
<object-type>METADATA_PROVIDER</object-type>
<object-type>GLOBAL</object-type>
<object-type>UTM_DEFAULT_CONFIGURATION</object-type>
<object-type>GLOBALIDP</object-type>
<object-type>ADDRESSPOOL</object-type>
<object-type>SSLVPNPROFILE</object-type>
<object-type>SECURE_WEB_PROXY_PROFILE</object-type>

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```
    <object-type>DNS_SECURITY_PROFILE</object-type>
    <object-type>DNS_SECURITY_POLICY</object-type>
    <object-type>DNS_SINKHOLE</object-type>
    <object-type>DNS_FILTER</object-type>
    <object-type>DATA_PLANE_PCAP</object-type>
</as-address-white-list>
<default-action>BLOCK_EMAIL</default-action>
<default-action>NONE</default-action>
<default-action>TAG_HEADER</default-action>
<default-action>TAG_SUBJECT</default-action>
<default-sbl-server>Boolean</default-sbl-server>
<description>String</description>
<name>String</name>
<tag-string>String</tag-string>
<as-address-black-list>
    <id>Integer</id>
    <name>String</name>
    <uuid>String</uuid>
    <object-type>VPN</object-type>
    <object-type>NAT_POLICY</object-type>
    <object-type>APBR_POLICY</object-type>
    <object-type>ADDRESS</object-type>
    <object-type>SSL_PROXY_PROFILE</object-type>
    <object-type>ACCESSPROFILE</object-type>
    <object-type>REDIRECT_APPLICATION_PROFILE</object-type>
    <object-type>SERVICE</object-type>
    <object-type>PORTSET</object-type>
    <object-type>APPLICATION_SIGNATURE</object-type>
    <object-type>IPS_SIGNATURE</object-type>
    <object-type>IPS_SIGNATURE_SET</object-type>
    <object-type>IPS_POLICY</object-type>
    <object-type>IPSRULE_TYPE</object-type>
    <object-type>POLICY</object-type>
    <object-type>DCRULE_TYPE</object-type>
    <object-type>NATRULE_TYPE</object-type>
    <object-type>APBR_RULE_TYPE</object-type>
    <object-type>APP_FW_RULE_TYPE</object-type>
    <object-type>NAT_RULE_SET</object-type>
    <object-type>NAT_POOL</object-type>
    <object-type>VPNDEVICE_TYPE</object-type>
    <object-type>VPNENDPOINT_TYPE</object-type>
    <object-type>VARIABLE_DEFINITION</object-type>
    <object-type>POLYZONEDEF_TYPE</object-type>
    <object-type>SOURCEIDENTITY_TYPE</object-type>
    <object-type>SECURITY_DEVICE</object-type>
    <object-type>EXTRANET_DEVICE</object-type>
    <object-type>IPSSIGSET_TYPE</object-type>
    <object-type>SCHEDULER</object-type>
    <object-type>ZONESET</object-type>
    <object-type>ANTI_SPAM_PROFILE</object-type>
    <object-type>ANTI_VIRUS_PROFILE</object-type>
    <object-type>CONTENT_FILTERING_PROFILE</object-type>
    <object-type>WEB_FILTERING_PROFILE</object-type>
    <object-type>URL_CATEGORY_LIST</object-type>
    <object-type>EMAIL_ADDRESS_PATTERN</object-type>
    <object-type>URL_CATEGORIZATION_LIST</object-type>
    <object-type>UTM_DEVICE_PROFILE</object-type>
    <object-type>UTM_POLICY</object-type>
    <object-type>POLICY_PROFILE</object-type>
    <object-type>VPNPROFILE_TYPE</object-type>
    <object-type>SD_PROVISIONING_RESULT</object-type>
    <object-type>DYNAMIC_ADDRESS</object-type>
    <object-type>CHANGE_REQUEST</object-type>
    <object-type>APP_FW_POLICY</object-type>
```


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```
        <object-type>CHANGE_REQUEST_DEPLOYED</object-type>
        <object-type>THREAT_POLICY</object-type>
        <object-type>BASE_FILTER</object-type>
        <object-type>ACTIVE_DIRECTORY</object-type>
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        <object-type>MACHINE_IDENTITY</object-type>
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        <object-type>METADATA_PROVIDER</object-type>
        <object-type>GLOBAL</object-type>
        <object-type>UTM_DEFAULT_CONFIGURATION</object-type>
        <object-type>GLOBALIDP</object-type>
        <object-type>ADDRESSPOOL</object-type>
        <object-type>SSLVPNPROFILE</object-type>
        <object-type>SECURE_WEB_PROXY_PROFILE</object-type>
        <object-type>DNS_SECURITY_PROFILE</object-type>
        <object-type>DNS_SECURITY_POLICY</object-type>
        <object-type>DNS_SINKHOLE</object-type>
        <object-type>DNS_FILTER</object-type>
        <object-type>DATA_PLANE_PCAP</object-type>
      </as-address-black-list>
      <uuid>String</uuid>
    </as-default-config>
    <uuid>String</uuid>
    <device-list>
      <device-lite>
        <moid>String</moid>
        <id>Integer</id>
        <name>String</name>
      </device-lite>
    </device-list>
</utm-default-configuration>
```

Sample JSON Output:

```
{
  "utm-default-configuration" : {
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "edit-version" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "description" : "String",
    "cf-default-config" : {
      "profile" : {
        "permit-command-list" : {
          "permit-command" : [ "String" ],
          "uri" : "String"
        },
        "block-content-type-list" : {
          "block-content-type" : [ "ACTIVEX", "EXE", "JAVA_APPLET", "HTTP_COOKIE", "ZIP" ]
        },
        "block-file-extension-list" : {
          "block-file-extension" : [ "String" ],
          "uri" : "String"
        },
        "hash-key" : "String",
        "block-mime-list" : {
          "block-mime" : [ "String" ],
          "uri" : "String"
        },
        "description" : "String",
```


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```
      "name" : "String",
      "notification-options" : {
        "custom-notification-message" : "String",
        "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
        "custom-notification-subject" : "String",
        "notify-mail-sender" : "Boolean",
        "uri" : "String"
      },
      "block-mime-exception-list" : {
        "block-mime-exception" : [ "String" ],
        "uri" : "String"
      },
      "block-command-list" : {
        "block-command" : [ "String" ],
        "uri" : "String"
      },
      "uri" : "String"
    },
    "description" : "String",
    "name" : "String",
    "content-filtering-type" : [ "SBL", "CONTENT_FILTERING_NONE" ],
    "uri" : "String",
    "uuid" : "String"
  },
  "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
  "wf-default-config" : {
    "url-category-action-list" : {
      "url-category-action" : [ {
        "action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
        "reputation-action" : {
          "moderately-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "harmful" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "suspicious" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "very-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "fairly-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "uri" : "String"
        },
        "redirect-profile" : { },
        "url-category-list" : { },
        "redirectProfileDetail" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "fs-timeout" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
    "port" : "Integer",
    "base-filter" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "uuid" : "String",
      "object-type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
"UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT",
"DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
```


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"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP"],
"uri" : "String"
},
"routing-instance" : "String",
"wf-url-category-white-list" : {
"id" : "Integer",
"name" : "String",
"domain-id" : "Integer",
"uuid" : "String",
"object-type" : ["VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
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"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP"],
"uri" : "String"
},
"proxy-profile" : {
"port-number" : "Integer",
"hash-key" : "String",
"name" : "String",
"host-name" : "String",
"connection-type" : ["SERVE_IP", "HOST_NAME"],
"ip-address" : "String",
"uri" : "String"
},
"block-msg-url" : "String",
"fs-default" : ["PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE"],
"quarantine-msg-type" : ["CUSTOM_REDIRECT_URL", "NONE"],
"http-reassemble" : "Boolean",
"http-persist" : "Boolean",
"quarantine-custom-message" : "String",
"description" : "String",
"name" : "String",
"safe-search" : "Boolean",
"fs-server-connectivity" : ["PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE"],
"custom-block-message" : "String",
"wf-url-category-black-list" : {
"id" : "Integer",
"name" : "String",
"domain-id" : "Integer",
"uuid" : "String",
"object-type" : ["VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",

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"ANTI_VIRUS_PROFILE", "CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE",
"URL_CATEGORY_LIST", "EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST",
"UTM_DEVICE_PROFILE", "UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE",
"SD_PROVISIONING_RESULT", "DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP"],
"uri" : "String"
},
"default-action" : ["PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE"],
"block-msg-type" : ["CUSTOM_REDIRECT_URL", "NONE"],
"server-host" : "String",
"sockets" : "Integer",
"hash-key" : "String",
"profile-type" : ["WEBSENSE", "LOCAL", "JUNIPER_ENHANCED", "NONE"],
"account" : "String",
"cache-timeout" : "Integer",
"timeout" : "Integer",
"quarantine-msg-url" : "String",
"fs-too-many-requests" : ["PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE"],
"cache-size" : "Integer",
"uri" : "String",
"very-safe-level" : "Integer",
"moderately-safe-level" : "Integer",
"fairly-safe-level" : "Integer",
"suspicious-level" : "Integer",
"site-reputation-actions" : {
"moderately-safe" : ["PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE"],
"harmful" : ["PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE"],
"suspicious" : ["PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE"],
"very-safe" : ["PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE"],
"fairly-safe" : ["PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE"],
"uri" : "String"
},
"uuid" : "String"
},
"av-default-config" : {
"global" : "String",
"av-scan-options" : {
"uri-check" : "Boolean",
"content-size-limit" : "Integer",
"decompress-layer-limit" : "Integer",
"timeout" : "Integer",
"pre-detection" : "Boolean",
"uri" : "String"
},
"last-modified-by-user-name" : "String",
"owning-system" : "String",
"domain-name" : "String",
"image-name" : "String",
"edit-version" : "Integer",
"av-mime-white-list" : {
"av-mime" : ["String"],
"uri" : "String"
},
"av-mime-exception-white-list" : {
"av-mime-exception" : ["String"],
"uri" : "String"
},
"pattern-update" : {
"start-time" : "String",

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```
  "no-auto-update" : "Boolean",
  "interval" : "Integer",
  "url" : "String",
  "proxy-profile" : {
    "name" : "String",
    "id" : "Integer",
    "uri" : "String",
    "link" : "String"
  },
  "pattern-updateouting-instance" : "String",
  "uri" : "String"
},
"pattern-update-proxy" : {
  "server" : "String",
  "port" : "Integer",
  "username" : "String",
  "password" : "String"
},
"id" : "Integer",
"version" : "Integer",
"created-by-user-name" : "String",
"sophos-engine-options" : {
  "virus-detection-notification-options" : {
    "custom-notification-message" : "String",
    "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
    "custom-notification-subject" : "String",
    "notify-mail-sender" : "Boolean",
    "uri" : "String",
    "this$0" : { }
  },
  "fall-back-block-notification-options" : {
    "custom-notification-message" : "String",
    "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
    "custom-notification-subject" : "String",
    "notify-mail-sender" : "Boolean",
    "uri" : "String"
  },
  "routing-instance" : "String",
  "fallback-non-block-notification-options" : {
    "custom-notification-message" : "String",
    "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
    "custom-notification-subject" : "String",
    "notify-mail-sender" : "Boolean",
    "uri" : "String"
  },
  "trickling-timeout" : "Integer",
  "sxl-retry" : "Integer",
  "sxl-timeout" : "Integer",
  "fall-back-options" : {
    "engine-not-ready" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "content-size" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "too-many-requests" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "out-of-resouces" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "engine-scan-timeout" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "uri" : "String"
  },
  "retry" : "Integer",
  "server-ip" : "String",
  "timeout-sophos" : "Integer",
  "uri" : "String"
},
"predefined" : "Boolean",
"domain-id" : "Integer",
```


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```
      "profile-type" : [ "SOPHOS", "AVIRA", "NONE" ],
      "avira-load-flavour" : [ "LIGHT", "HEAVY" ],
      "email-notify-settings" : {
        "custom-msg" : "String",
        "custom-msg-subject" : "String",
        "admin-email" : "String",
        "uri" : "String"
      },
      "av-url-category-white-list" : {
        "name" : "String",
        "id" : "Integer",
        "uri" : "String",
        "link" : "String"
      },
      "uri" : "String",
      "uuid" : "String"
    },
    "name" : "String",
    "as-default-config" : {
      "as-profile-type" : [ "SBL", "ANTI_SPAM_NONE" ],
      "as-address-white-list" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uuid" : "String",
        "object-type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
"UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT",
"DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP" ],
        "uri" : "String"
      },
      "default-action" : [ "BLOCK_EMAIL", "NONE", "TAG_HEADER", "TAG_SUBJECT" ],
      "default-sbl-server" : "Boolean",
      "description" : "String",
      "name" : "String",
      "tag-string" : "String",
      "as-address-black-list" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "uuid" : "String",
        "object-type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
```


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"SD_PROVISIONING_RESULT", "DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP"],
"uri" : "String"
},
"uri" : "String",
"uuid" : "String"
},
"uuid" : "String",
"device-list" : {
"device-lite" : [{
"moid" : "String",
"id" : "Integer",
"name" : "String",
"uri" : "String",
"link" : "String"
}],
"uri" : "String"
},
"uri" : "String",
"link" : "String"
}
}

Sample XML Output:

<?xml version="1.0" encoding="UTF-8"?>
<utm-default-configuration>
<definition-type>Hidden</definition-type>
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
<definition-type>All</definition-type>
<edit-version>Integer</edit-version>
<created-by-user-name>String</created-by-user-name>
<last-modified-by-user-name>String</last-modified-by-user-name>
<domain-name>String</domain-name>
<domain-id>Integer</domain-id>
<id>Integer</id>
<description>String</description>
<cf-default-config>
<profile>
<permit-command-list>
<permit-command>String</permit-command>
<uri>String</uri>
</permit-command-list>
<block-content-type-list>
<block-content-type>ACTIVEX</block-content-type>
<block-content-type>EXE</block-content-type>
<block-content-type>JAVA_APPLET</block-content-type>
<block-content-type>HTTP_COOKIE</block-content-type>
<block-content-type>ZIP</block-content-type>
</block-content-type-list>
<block-file-extension-list>
<block-file-extension>String</block-file-extension>
<uri>String</uri>
</block-file-extension-list>
<hash-key>String</hash-key>
<block-mime-list>
<block-mime>String</block-mime>
<uri>String</uri>

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```
      </block-mime-list>
      <description>String</description>
      <name>String</name>
      <notification-options>
        <custom-notification-message>String</custom-notification-message>
        <notification-type>PROTOCOL</notification-type>
        <notification-type>MESSAGE</notification-type>
        <notification-type>NONE</notification-type>
        <custom-notification-subject>String</custom-notification-subject>
        <notify-mail-sender>Boolean</notify-mail-sender>
        <uri>String</uri>
      </notification-options>
      <block-mime-exception-list>
        <block-mime-exception>String</block-mime-exception>
        <uri>String</uri>
      </block-mime-exception-list>
      <block-command-list>
        <block-command>String</block-command>
        <uri>String</uri>
      </block-command-list>
      <uri>String</uri>
    </profile>
    <description>String</description>
    <name>String</name>
    <content-filtering-type>SBL</content-filtering-type>
    <content-filtering-type>CONTENT_FILTERING_NONE</content-filtering-type>
    <uri>String</uri>
    <uuid>String</uuid>
  </cf-default-config>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <wf-default-config>
    <url-category-action-list>
      <url-category-action>
        <action>PERMIT</action>
        <action>LOG_AND_PERMIT</action>
        <action>BLOCK</action>
        <action>QUARANTINE</action>
        <action>NONE</action>
        <reputation-action>
          <moderately-safe>PERMIT</moderately-safe>
          <moderately-safe>LOG_AND_PERMIT</moderately-safe>
          <moderately-safe>BLOCK</moderately-safe>
          <moderately-safe>QUARANTINE</moderately-safe>
          <moderately-safe>NONE</moderately-safe>
          <harmful>PERMIT</harmful>
          <harmful>LOG_AND_PERMIT</harmful>
          <harmful>BLOCK</harmful>
          <harmful>QUARANTINE</harmful>
          <harmful>NONE</harmful>
          <suspicious>PERMIT</suspicious>
          <suspicious>LOG_AND_PERMIT</suspicious>
          <suspicious>BLOCK</suspicious>
          <suspicious>QUARANTINE</suspicious>
          <suspicious>NONE</suspicious>
          <very-safe>PERMIT</very-safe>
          <very-safe>LOG_AND_PERMIT</very-safe>
          <very-safe>BLOCK</very-safe>
          <very-safe>QUARANTINE</very-safe>
          <very-safe>NONE</very-safe>
          <fairly-safe>PERMIT</fairly-safe>
```


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```
        <fairly-safe>LOG_AND_PERMIT</fairly-safe>
        <fairly-safe>BLOCK</fairly-safe>
        <fairly-safe>QUARANTINE</fairly-safe>
        <fairly-safe>NONE</fairly-safe>
        <uri>String</uri>
      </reputation-action>
      <redirect-profile/>
      <url-category-list/>
      <redirectProfileDetail>String</redirectProfileDetail>
      <uri>String</uri>
    </url-category-action>
    <uri>String</uri>
</url-category-action-list>
<fs-timeout>PERMIT</fs-timeout>
<fs-timeout>LOG_AND_PERMIT</fs-timeout>
<fs-timeout>BLOCK</fs-timeout>
<fs-timeout>QUARANTINE</fs-timeout>
<fs-timeout>NONE</fs-timeout>
<port>Integer</port>
<base-filter>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <uuid>String</uuid>
    <object-type>VPN</object-type>
    <object-type>NAT_POLICY</object-type>
    <object-type>APBR_POLICY</object-type>
    <object-type>ADDRESS</object-type>
    <object-type>SSL_PROXY_PROFILE</object-type>
    <object-type>ACCESSPROFILE</object-type>
    <object-type>REDIRECT_APPLICATION_PROFILE</object-type>
    <object-type>SERVICE</object-type>
    <object-type>PORTSET</object-type>
    <object-type>APPLICATION_SIGNATURE</object-type>
    <object-type>IPS_SIGNATURE</object-type>
    <object-type>IPS_SIGNATURE_SET</object-type>
    <object-type>IPS_POLICY</object-type>
    <object-type>IPSRULE_TYPE</object-type>
    <object-type>POLICY</object-type>
    <object-type>DCRULE_TYPE</object-type>
    <object-type>NATRULE_TYPE</object-type>
    <object-type>APBR_RULE_TYPE</object-type>
    <object-type>APP_FW_RULE_TYPE</object-type>
    <object-type>NAT_RULE_SET</object-type>
    <object-type>NAT_POOL</object-type>
    <object-type>VPNDEVICE_TYPE</object-type>
    <object-type>VPNENDPOINT_TYPE</object-type>
    <object-type>VARIABLE_DEFINITION</object-type>
    <object-type>POLYZONEDEF_TYPE</object-type>
    <object-type>SOURCEIDENTITY_TYPE</object-type>
    <object-type>SECURITY_DEVICE</object-type>
    <object-type>EXTRANET_DEVICE</object-type>
    <object-type>IPSSIGSET_TYPE</object-type>
    <object-type>SCHEDULER</object-type>
    <object-type>ZONESET</object-type>
    <object-type>ANTI_SPAM_PROFILE</object-type>
    <object-type>ANTI_VIRUS_PROFILE</object-type>
    <object-type>CONTENT_FILTERING_PROFILE</object-type>
    <object-type>WEB_FILTERING_PROFILE</object-type>
    <object-type>URL_CATEGORY_LIST</object-type>
    <object-type>EMAIL_ADDRESS_PATTERN</object-type>
    <object-type>URL_CATEGORIZATION_LIST</object-type>
    <object-type>UTM_DEVICE_PROFILE</object-type>
    <object-type>UTM_POLICY</object-type>
```


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```
    <object-type>POLICY_PROFILE</object-type>
    <object-type>VPNPROFILE_TYPE</object-type>
    <object-type>SD_PROVISIONING_RESULT</object-type>
    <object-type>DYNAMIC_ADDRESS</object-type>
    <object-type>CHANGE_REQUEST</object-type>
    <object-type>APP_FW_POLICY</object-type>
    <object-type>CHANGE_REQUEST_DEPLOYED</object-type>
    <object-type>THREAT_POLICY</object-type>
    <object-type>BASE_FILTER</object-type>
    <object-type>ACTIVE_DIRECTORY</object-type>
    <object-type>IDENTITY_MANAGEMENT</object-type>
    <object-type>MACHINE_IDENTITY</object-type>
    <object-type>CONDITION</object-type>
    <object-type>ENVIRONMENT_VARIABLE</object-type>
    <object-type>METADATA</object-type>
    <object-type>METADATAEXPRESSION</object-type>
    <object-type>METADATA_PROVIDER</object-type>
    <object-type>GLOBAL</object-type>
    <object-type>UTM_DEFAULT_CONFIGURATION</object-type>
    <object-type>GLOBALIDP</object-type>
    <object-type>ADDRESSPOOL</object-type>
    <object-type>SSLVPNPROFILE</object-type>
    <object-type>SECURE_WEB_PROXY_PROFILE</object-type>
    <object-type>DNS_SECURITY_PROFILE</object-type>
    <object-type>DNS_SECURITY_POLICY</object-type>
    <object-type>DNS_SINKHOLE</object-type>
    <object-type>DNS_FILTER</object-type>
    <object-type>DATA_PLANE_PCAP</object-type>
    <uri>String</uri>
</base-filter>
<routing-instance>String</routing-instance>
<wf-url-category-white-list>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <uuid>String</uuid>
    <object-type>VPN</object-type>
    <object-type>NAT_POLICY</object-type>
    <object-type>APBR_POLICY</object-type>
    <object-type>ADDRESS</object-type>
    <object-type>SSL_PROXY_PROFILE</object-type>
    <object-type>ACCESSPROFILE</object-type>
    <object-type>REDIRECT_APPLICATION_PROFILE</object-type>
    <object-type>SERVICE</object-type>
    <object-type>PORTSET</object-type>
    <object-type>APPLICATION_SIGNATURE</object-type>
    <object-type>IPS_SIGNATURE</object-type>
    <object-type>IPS_SIGNATURE_SET</object-type>
    <object-type>IPS_POLICY</object-type>
    <object-type>IPSRULE_TYPE</object-type>
    <object-type>POLICY</object-type>
    <object-type>DCRULE_TYPE</object-type>
    <object-type>NATRULE_TYPE</object-type>
    <object-type>APBR_RULE_TYPE</object-type>
    <object-type>APP_FW_RULE_TYPE</object-type>
    <object-type>NAT_RULE_SET</object-type>
    <object-type>NAT_POOL</object-type>
    <object-type>VPNDEVICE_TYPE</object-type>
    <object-type>VPNENDPOINT_TYPE</object-type>
    <object-type>VARIABLE_DEFINITION</object-type>
    <object-type>POLYZONEDEF_TYPE</object-type>
    <object-type>SOURCEIDENTITY_TYPE</object-type>
    <object-type>SECURITY_DEVICE</object-type>
    <object-type>EXTRANET_DEVICE</object-type>
```


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```
    <object-type>IPSSIGSET_TYPE</object-type>
    <object-type>SCHEDULER</object-type>
    <object-type>ZONESET</object-type>
    <object-type>ANTI_SPAM_PROFILE</object-type>
    <object-type>ANTI_VIRUS_PROFILE</object-type>
    <object-type>CONTENT_FILTERING_PROFILE</object-type>
    <object-type>WEB_FILTERING_PROFILE</object-type>
    <object-type>URL_CATEGORY_LIST</object-type>
    <object-type>EMAIL_ADDRESS_PATTERN</object-type>
    <object-type>URL_CATEGORIZATION_LIST</object-type>
    <object-type>UTM_DEVICE_PROFILE</object-type>
    <object-type>UTM_POLICY</object-type>
    <object-type>POLICY_PROFILE</object-type>
    <object-type>VPNPROFILE_TYPE</object-type>
    <object-type>SD_PROVISIONING_RESULT</object-type>
    <object-type>DYNAMIC_ADDRESS</object-type>
    <object-type>CHANGE_REQUEST</object-type>
    <object-type>APP_FW_POLICY</object-type>
    <object-type>CHANGE_REQUEST_DEPLOYED</object-type>
    <object-type>THREAT_POLICY</object-type>
    <object-type>BASE_FILTER</object-type>
    <object-type>ACTIVE_DIRECTORY</object-type>
    <object-type>IDENTITY_MANAGEMENT</object-type>
    <object-type>MACHINE_IDENTITY</object-type>
    <object-type>CONDITION</object-type>
    <object-type>ENVIRONMENT_VARIABLE</object-type>
    <object-type>METADATA</object-type>
    <object-type>METADATAEXPRESSION</object-type>
    <object-type>METADATA_PROVIDER</object-type>
    <object-type>GLOBAL</object-type>
    <object-type>UTM_DEFAULT_CONFIGURATION</object-type>
    <object-type>GLOBALIDP</object-type>
    <object-type>ADDRESSPOOL</object-type>
    <object-type>SSLVPNPROFILE</object-type>
    <object-type>SECURE_WEB_PROXY_PROFILE</object-type>
    <object-type>DNS_SECURITY_PROFILE</object-type>
    <object-type>DNS_SECURITY_POLICY</object-type>
    <object-type>DNS_SINKHOLE</object-type>
    <object-type>DNS_FILTER</object-type>
    <object-type>DATA_PLANE_PCAP</object-type>
    <uri>String</uri>
</wf-url-category-white-list>
<proxy-profile>
    <port-number>Integer</port-number>
    <hash-key>String</hash-key>
    <name>String</name>
    <host-name>String</host-name>
    <connection-type>SERVE_IP</connection-type>
    <connection-type>HOST_NAME</connection-type>
    <ip-address>String</ip-address>
    <uri>String</uri>
</proxy-profile>
<block-msg-url>String</block-msg-url>
<fs-default>PERMIT</fs-default>
<fs-default>LOG_AND_PERMIT</fs-default>
<fs-default>BLOCK</fs-default>
<fs-default>QUARANTINE</fs-default>
<fs-default>NONE</fs-default>
<quarantine-msg-type>CUSTOM_REDIRECT_URL</quarantine-msg-type>
<quarantine-msg-type>NONE</quarantine-msg-type>
<http-reassemble>Boolean</http-reassemble>
<http-persist>Boolean</http-persist>
<quarantine-custom-message>String</quarantine-custom-message>
<description>String</description>
```


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```
<name>String</name>
<safe-search>Boolean</safe-search>
<fs-server-connectivity>PERMIT</fs-server-connectivity>
<fs-server-connectivity>LOG_AND_PERMIT</fs-server-connectivity>
<fs-server-connectivity>BLOCK</fs-server-connectivity>
<fs-server-connectivity>QUARANTINE</fs-server-connectivity>
<fs-server-connectivity>NONE</fs-server-connectivity>
<custom-block-message>String</custom-block-message>
<wf-url-category-black-list>
  <id>Integer</id>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <uuid>String</uuid>
  <object-type>VPN</object-type>
  <object-type>NAT_POLICY</object-type>
  <object-type>APBR_POLICY</object-type>
  <object-type>ADDRESS</object-type>
  <object-type>SSL_PROXY_PROFILE</object-type>
  <object-type>ACCESSPROFILE</object-type>
  <object-type>REDIRECT_APPLICATION_PROFILE</object-type>
  <object-type>SERVICE</object-type>
  <object-type>PORTSET</object-type>
  <object-type>APPLICATION_SIGNATURE</object-type>
  <object-type>IPS_SIGNATURE</object-type>
  <object-type>IPS_SIGNATURE_SET</object-type>
  <object-type>IPS_POLICY</object-type>
  <object-type>IPSRULE_TYPE</object-type>
  <object-type>POLICY</object-type>
  <object-type>DCRULE_TYPE</object-type>
  <object-type>NATRULE_TYPE</object-type>
  <object-type>APBR_RULE_TYPE</object-type>
  <object-type>APP_FW_RULE_TYPE</object-type>
  <object-type>NAT_RULE_SET</object-type>
  <object-type>NAT_POOL</object-type>
  <object-type>VPNDEVICE_TYPE</object-type>
  <object-type>VPNENDPOINT_TYPE</object-type>
  <object-type>VARIABLE_DEFINITION</object-type>
  <object-type>POLYZONEDEF_TYPE</object-type>
  <object-type>SOURCEIDENTITY_TYPE</object-type>
  <object-type>SECURITY_DEVICE</object-type>
  <object-type>EXTRANET_DEVICE</object-type>
  <object-type>IPSSIGSET_TYPE</object-type>
  <object-type>SCHEDULER</object-type>
  <object-type>ZONESET</object-type>
  <object-type>ANTI_SPAM_PROFILE</object-type>
  <object-type>ANTI_VIRUS_PROFILE</object-type>
  <object-type>CONTENT_FILTERING_PROFILE</object-type>
  <object-type>WEB_FILTERING_PROFILE</object-type>
  <object-type>URL_CATEGORY_LIST</object-type>
  <object-type>EMAIL_ADDRESS_PATTERN</object-type>
  <object-type>URL_CATEGORIZATION_LIST</object-type>
  <object-type>UTM_DEVICE_PROFILE</object-type>
  <object-type>UTM_POLICY</object-type>
  <object-type>POLICY_PROFILE</object-type>
  <object-type>VPNPROFILE_TYPE</object-type>
  <object-type>SD_PROVISIONING_RESULT</object-type>
  <object-type>DYNAMIC_ADDRESS</object-type>
  <object-type>CHANGE_REQUEST</object-type>
  <object-type>APP_FW_POLICY</object-type>
  <object-type>CHANGE_REQUEST_DEPLOYED</object-type>
  <object-type>THREAT_POLICY</object-type>
  <object-type>BASE_FILTER</object-type>
  <object-type>ACTIVE_DIRECTORY</object-type>
  <object-type>IDENTITY_MANAGEMENT</object-type>
```


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```
    <object-type>MACHINE_IDENTITY</object-type>
    <object-type>CONDITION</object-type>
    <object-type>ENVIRONMENT_VARIABLE</object-type>
    <object-type>METADATA</object-type>
    <object-type>METADATAEXPRESSION</object-type>
    <object-type>METADATA_PROVIDER</object-type>
    <object-type>GLOBAL</object-type>
    <object-type>UTM_DEFAULT_CONFIGURATION</object-type>
    <object-type>GLOBALIDP</object-type>
    <object-type>ADDRESSPOOL</object-type>
    <object-type>SSLVPNPROFILE</object-type>
    <object-type>SECURE_WEB_PROXY_PROFILE</object-type>
    <object-type>DNS_SECURITY_PROFILE</object-type>
    <object-type>DNS_SECURITY_POLICY</object-type>
    <object-type>DNS_SINKHOLE</object-type>
    <object-type>DNS_FILTER</object-type>
    <object-type>DATA_PLANE_PCAP</object-type>
    <uri>String</uri>
</wf-url-category-black-list>
<default-action>PERMIT</default-action>
<default-action>LOG_AND_PERMIT</default-action>
<default-action>BLOCK</default-action>
<default-action>QUARANTINE</default-action>
<default-action>NONE</default-action>
<block-msg-type>CUSTOM_REDIRECT_URL</block-msg-type>
<block-msg-type>NONE</block-msg-type>
<server-host>String</server-host>
<sockets>Integer</sockets>
<hash-key>String</hash-key>
<profile-type>WEBSENSE</profile-type>
<profile-type>LOCAL</profile-type>
<profile-type>JUNIPER_ENHANCED</profile-type>
<profile-type>NONE</profile-type>
<account>String</account>
<cache-timeout>Integer</cache-timeout>
<timeout>Integer</timeout>
<quarantine-msg-url>String</quarantine-msg-url>
<fs-too-many-requests>PERMIT</fs-too-many-requests>
<fs-too-many-requests>LOG_AND_PERMIT</fs-too-many-requests>
<fs-too-many-requests>BLOCK</fs-too-many-requests>
<fs-too-many-requests>QUARANTINE</fs-too-many-requests>
<fs-too-many-requests>NONE</fs-too-many-requests>
<cache-size>Integer</cache-size>
<uri>String</uri>
<very-safe-level>Integer</very-safe-level>
<moderately-safe-level>Integer</moderately-safe-level>
<fairly-safe-level>Integer</fairly-safe-level>
<suspicious-level>Integer</suspicious-level>
<site-reputation-actions>
    <moderately-safe>PERMIT</moderately-safe>
    <moderately-safe>LOG_AND_PERMIT</moderately-safe>
    <moderately-safe>BLOCK</moderately-safe>
    <moderately-safe>QUARANTINE</moderately-safe>
    <moderately-safe>NONE</moderately-safe>
    <harmful>PERMIT</harmful>
    <harmful>LOG_AND_PERMIT</harmful>
    <harmful>BLOCK</harmful>
    <harmful>QUARANTINE</harmful>
    <harmful>NONE</harmful>
    <suspicious>PERMIT</suspicious>
    <suspicious>LOG_AND_PERMIT</suspicious>
    <suspicious>BLOCK</suspicious>
    <suspicious>QUARANTINE</suspicious>
    <suspicious>NONE</suspicious>
```


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```
      <very-safe>PERMIT</very-safe>
      <very-safe>LOG_AND_PERMIT</very-safe>
      <very-safe>BLOCK</very-safe>
      <very-safe>QUARANTINE</very-safe>
      <very-safe>NONE</very-safe>
      <fairly-safe>PERMIT</fairly-safe>
      <fairly-safe>LOG_AND_PERMIT</fairly-safe>
      <fairly-safe>BLOCK</fairly-safe>
      <fairly-safe>QUARANTINE</fairly-safe>
      <fairly-safe>NONE</fairly-safe>
      <uri>String</uri>
    </site-reputation-actions>
    <uuid>String</uuid>
  </wf-default-config>
  <av-default-config>
    <global>String</global>
    <av-scan-options>
      <uri-check>Boolean</uri-check>
      <content-size-limit>Integer</content-size-limit>
      <decompress-layer-limit>Integer</decompress-layer-limit>
      <timeout>Integer</timeout>
      <pre-detection>Boolean</pre-detection>
      <uri>String</uri>
    </av-scan-options>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <owning-system>String</owning-system>
    <domain-name>String</domain-name>
    <image-name>String</image-name>
    <edit-version>Integer</edit-version>
    <av-mime-white-list>
      <av-mime>String</av-mime>
      <uri>String</uri>
    </av-mime-white-list>
    <av-mime-exception-white-list>
      <av-mime-exception>String</av-mime-exception>
      <uri>String</uri>
    </av-mime-exception-white-list>
    <pattern-update>
      <start-time>String</start-time>
      <no-auto-update>Boolean</no-auto-update>
      <interval>Integer</interval>
      <url>String</url>
      <proxy-profile>
        <name>String</name>
        <id>Integer</id>
        <uri>String</uri>
        <link>String</link>
      </proxy-profile>
      <pattern-updateouting-instance>String</pattern-updateouting-instance>
      <uri>String</uri>
    </pattern-update>
    <pattern-update-proxy>
      <server>String</server>
      <port>Integer</port>
      <username>String</username>
      <password>String</password>
    </pattern-update-proxy>
    <id>Integer</id>
    <version>Integer</version>
    <created-by-user-name>String</created-by-user-name>
    <sophos-engine-options>
      <virus-detection-notification-options>
        <custom-notification-message>String</custom-notification-message>
        <notification-type>PROTOCOL</notification-type>
```


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```
      <notification-type>MESSAGE</notification-type>
      <notification-type>NONE</notification-type>
      <custom-notification-subject>String</custom-notification-subject>
      <notify-mail-sender>Boolean</notify-mail-sender>
      <uri>String</uri>
      <this$0/>
    </virus-detection-notification-options>
    <fall-back-block-notification-options>
      <custom-notification-message>String</custom-notification-message>
      <notification-type>PROTOCOL</notification-type>
      <notification-type>MESSAGE</notification-type>
      <notification-type>NONE</notification-type>
      <custom-notification-subject>String</custom-notification-subject>
      <notify-mail-sender>Boolean</notify-mail-sender>
      <uri>String</uri>
    </fall-back-block-notification-options>
    <routing-instance>String</routing-instance>
    <fallback-non-block-notification-options>
      <custom-notification-message>String</custom-notification-message>
      <notification-type>PROTOCOL</notification-type>
      <notification-type>MESSAGE</notification-type>
      <notification-type>NONE</notification-type>
      <custom-notification-subject>String</custom-notification-subject>
      <notify-mail-sender>Boolean</notify-mail-sender>
      <uri>String</uri>
    </fallback-non-block-notification-options>
    <trickling-timeout>Integer</trickling-timeout>
    <sxl-retry>Integer</sxl-retry>
    <sxl-timeout>Integer</sxl-timeout>
    <fall-back-options>
      <engine-not-ready>PERMIT</engine-not-ready>
      <engine-not-ready>LOG_AND_PERMIT</engine-not-ready>
      <engine-not-ready>BLOCK</engine-not-ready>
      <engine-not-ready>NONE</engine-not-ready>
      <content-size>PERMIT</content-size>
      <content-size>LOG_AND_PERMIT</content-size>
      <content-size>BLOCK</content-size>
      <content-size>NONE</content-size>
      <too-many-requests>PERMIT</too-many-requests>
      <too-many-requests>LOG_AND_PERMIT</too-many-requests>
      <too-many-requests>BLOCK</too-many-requests>
      <too-many-requests>NONE</too-many-requests>
      <default-action>PERMIT</default-action>
      <default-action>LOG_AND_PERMIT</default-action>
      <default-action>BLOCK</default-action>
      <default-action>NONE</default-action>
      <out-of-resouces>PERMIT</out-of-resouces>
      <out-of-resouces>LOG_AND_PERMIT</out-of-resouces>
      <out-of-resouces>BLOCK</out-of-resouces>
      <out-of-resouces>NONE</out-of-resouces>
      <engine-scan-timeout>PERMIT</engine-scan-timeout>
      <engine-scan-timeout>LOG_AND_PERMIT</engine-scan-timeout>
      <engine-scan-timeout>BLOCK</engine-scan-timeout>
      <engine-scan-timeout>NONE</engine-scan-timeout>
      <uri>String</uri>
    </fall-back-options>
    <retry>Integer</retry>
    <server-ip>String</server-ip>
    <timeout-sophos>Integer</timeout-sophos>
    <uri>String</uri>
  </sophos-engine-options>
  <predefined>Boolean</predefined>
  <domain-id>Integer</domain-id>
  <profile-type>SOPHOS</profile-type>
```


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```
    <profile-type>AVIRA</profile-type>
    <profile-type>NONE</profile-type>
    <avira-load-flavour>LIGHT</avira-load-flavour>
    <avira-load-flavour>HEAVY</avira-load-flavour>
    <email-notify-settings>
      <custom-msg>String</custom-msg>
      <custom-msg-subject>String</custom-msg-subject>
      <admin-email>String</admin-email>
      <uri>String</uri>
    </email-notify-settings>
    <av-url-category-white-list>
      <name>String</name>
      <id>Integer</id>
      <uri>String</uri>
      <link>String</link>
    </av-url-category-white-list>
    <uri>String</uri>
    <uuid>String</uuid>
  </av-default-config>
  <name>String</name>
  <as-default-config>
    <as-profile-type>SBL</as-profile-type>
    <as-profile-type>ANTI_SPAM_NONE</as-profile-type>
    <as-address-white-list>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <uuid>String</uuid>
      <object-type>VPN</object-type>
      <object-type>NAT_POLICY</object-type>
      <object-type>APBR_POLICY</object-type>
      <object-type>ADDRESS</object-type>
      <object-type>SSL_PROXY_PROFILE</object-type>
      <object-type>ACCESSPROFILE</object-type>
      <object-type>REDIRECT_APPLICATION_PROFILE</object-type>
      <object-type>SERVICE</object-type>
      <object-type>PORTSET</object-type>
      <object-type>APPLICATION_SIGNATURE</object-type>
      <object-type>IPS_SIGNATURE</object-type>
      <object-type>IPS_SIGNATURE_SET</object-type>
      <object-type>IPS_POLICY</object-type>
      <object-type>IPSRULE_TYPE</object-type>
      <object-type>POLICY</object-type>
      <object-type>DCRULE_TYPE</object-type>
      <object-type>NATRULE_TYPE</object-type>
      <object-type>APBR_RULE_TYPE</object-type>
      <object-type>APP_FW_RULE_TYPE</object-type>
      <object-type>NAT_RULE_SET</object-type>
      <object-type>NAT_POOL</object-type>
      <object-type>VPNDEVICE_TYPE</object-type>
      <object-type>VPNENDPOINT_TYPE</object-type>
      <object-type>VARIABLE_DEFINITION</object-type>
      <object-type>POLYZONEDEF_TYPE</object-type>
      <object-type>SOURCEIDENTITY_TYPE</object-type>
      <object-type>SECURITY_DEVICE</object-type>
      <object-type>EXTRANET_DEVICE</object-type>
      <object-type>IPSSIGSET_TYPE</object-type>
      <object-type>SCHEDULER</object-type>
      <object-type>ZONESET</object-type>
      <object-type>ANTI_SPAM_PROFILE</object-type>
      <object-type>ANTI_VIRUS_PROFILE</object-type>
      <object-type>CONTENT_FILTERING_PROFILE</object-type>
      <object-type>WEB_FILTERING_PROFILE</object-type>
      <object-type>URL_CATEGORY_LIST</object-type>
```


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```
    <object-type>EMAIL_ADDRESS_PATTERN</object-type>
    <object-type>URL_CATEGORIZATION_LIST</object-type>
    <object-type>UTM_DEVICE_PROFILE</object-type>
    <object-type>UTM_POLICY</object-type>
    <object-type>POLICY_PROFILE</object-type>
    <object-type>VPNPROFILE_TYPE</object-type>
    <object-type>SD_PROVISIONING_RESULT</object-type>
    <object-type>DYNAMIC_ADDRESS</object-type>
    <object-type>CHANGE_REQUEST</object-type>
    <object-type>APP_FW_POLICY</object-type>
    <object-type>CHANGE_REQUEST_DEPLOYED</object-type>
    <object-type>THREAT_POLICY</object-type>
    <object-type>BASE_FILTER</object-type>
    <object-type>ACTIVE_DIRECTORY</object-type>
    <object-type>IDENTITY_MANAGEMENT</object-type>
    <object-type>MACHINE_IDENTITY</object-type>
    <object-type>CONDITION</object-type>
    <object-type>ENVIRONMENT_VARIABLE</object-type>
    <object-type>METADATA</object-type>
    <object-type>METADATAEXPRESSION</object-type>
    <object-type>METADATA_PROVIDER</object-type>
    <object-type>GLOBAL</object-type>
    <object-type>UTM_DEFAULT_CONFIGURATION</object-type>
    <object-type>GLOBALIDP</object-type>
    <object-type>ADDRESSPOOL</object-type>
    <object-type>SSLVPNPROFILE</object-type>
    <object-type>SECURE_WEB_PROXY_PROFILE</object-type>
    <object-type>DNS_SECURITY_PROFILE</object-type>
    <object-type>DNS_SECURITY_POLICY</object-type>
    <object-type>DNS_SINKHOLE</object-type>
    <object-type>DNS_FILTER</object-type>
    <object-type>DATA_PLANE_PCAP</object-type>
    <uri>String</uri>
  </as-address-white-list>
  <default-action>BLOCK_EMAIL</default-action>
  <default-action>NONE</default-action>
  <default-action>TAG_HEADER</default-action>
  <default-action>TAG_SUBJECT</default-action>
  <default-sbl-server>Boolean</default-sbl-server>
  <description>String</description>
  <name>String</name>
  <tag-string>String</tag-string>
  <as-address-black-list>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <uuid>String</uuid>
    <object-type>VPN</object-type>
    <object-type>NAT_POLICY</object-type>
    <object-type>APBR_POLICY</object-type>
    <object-type>ADDRESS</object-type>
    <object-type>SSL_PROXY_PROFILE</object-type>
    <object-type>ACCESSPROFILE</object-type>
    <object-type>REDIRECT_APPLICATION_PROFILE</object-type>
    <object-type>SERVICE</object-type>
    <object-type>PORTSET</object-type>
    <object-type>APPLICATION_SIGNATURE</object-type>
    <object-type>IPS_SIGNATURE</object-type>
    <object-type>IPS_SIGNATURE_SET</object-type>
    <object-type>IPS_POLICY</object-type>
    <object-type>IPSRULE_TYPE</object-type>
    <object-type>POLICY</object-type>
    <object-type>DCRULE_TYPE</object-type>
    <object-type>NATRULE_TYPE</object-type>
```


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```
      <object-type>APBR_RULE_TYPE</object-type>
      <object-type>APP_FW_RULE_TYPE</object-type>
      <object-type>NAT_RULE_SET</object-type>
      <object-type>NAT_POOL</object-type>
      <object-type>VPNDEVICE_TYPE</object-type>
      <object-type>VPNENDPOINT_TYPE</object-type>
      <object-type>VARIABLE_DEFINITION</object-type>
      <object-type>POLYZONEDEF_TYPE</object-type>
      <object-type>SOURCEIDENTITY_TYPE</object-type>
      <object-type>SECURITY_DEVICE</object-type>
      <object-type>EXTRANET_DEVICE</object-type>
      <object-type>IPSSIGSET_TYPE</object-type>
      <object-type>SCHEDULER</object-type>
      <object-type>ZONESET</object-type>
      <object-type>ANTI_SPAM_PROFILE</object-type>
      <object-type>ANTI_VIRUS_PROFILE</object-type>
      <object-type>CONTENT_FILTERING_PROFILE</object-type>
      <object-type>WEB_FILTERING_PROFILE</object-type>
      <object-type>URL_CATEGORY_LIST</object-type>
      <object-type>EMAIL_ADDRESS_PATTERN</object-type>
      <object-type>URL_CATEGORIZATION_LIST</object-type>
      <object-type>UTM_DEVICE_PROFILE</object-type>
      <object-type>UTM_POLICY</object-type>
      <object-type>POLICY_PROFILE</object-type>
      <object-type>VPNPROFILE_TYPE</object-type>
      <object-type>SD_PROVISIONING_RESULT</object-type>
      <object-type>DYNAMIC_ADDRESS</object-type>
      <object-type>CHANGE_REQUEST</object-type>
      <object-type>APP_FW_POLICY</object-type>
      <object-type>CHANGE_REQUEST_DEPLOYED</object-type>
      <object-type>THREAT_POLICY</object-type>
      <object-type>BASE_FILTER</object-type>
      <object-type>ACTIVE_DIRECTORY</object-type>
      <object-type>IDENTITY_MANAGEMENT</object-type>
      <object-type>MACHINE_IDENTITY</object-type>
      <object-type>CONDITION</object-type>
      <object-type>ENVIRONMENT_VARIABLE</object-type>
      <object-type>METADATA</object-type>
      <object-type>METADATAEXPRESSION</object-type>
      <object-type>METADATA_PROVIDER</object-type>
      <object-type>GLOBAL</object-type>
      <object-type>UTM_DEFAULT_CONFIGURATION</object-type>
      <object-type>GLOBALIDP</object-type>
      <object-type>ADDRESSPOOL</object-type>
      <object-type>SSLVPNPROFILE</object-type>
      <object-type>SECURE_WEB_PROXY_PROFILE</object-type>
      <object-type>DNS_SECURITY_PROFILE</object-type>
      <object-type>DNS_SECURITY_POLICY</object-type>
      <object-type>DNS_SINKHOLE</object-type>
      <object-type>DNS_FILTER</object-type>
      <object-type>DATA_PLANE_PCAP</object-type>
      <uri>String</uri>
    </as-address-black-list>
    <uri>String</uri>
    <uuid>String</uuid>
  </as-default-config>
  <uuid>String</uuid>
  <device-list>
    <device-lite>
      <moid>String</moid>
      <id>Integer</id>
      <name>String</name>
      <uri>String</uri>
      <link>String</link>
```


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```
    </device-lite>
    <uri>String</uri>
  </device-list>
  <uri>String</uri>
  <link>String</link>
</utm-default-configuration>
```

Retrieve All UTM Default Configurations (Paginated)

Fetches a paginated list of all configured UTM Default Configurations.

URI	/api/juniper/sd/utm-management/utm-default-configurations
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	viewUTMDefaultConfiguration

Sample JSON Output:

```
{
  "utm-default-configurations" : {
    "utm-default-configuration" : [ {
      "av-default-config" : {
        "av-mime-white-list" : {
          "av-mime" : [ "String" ],
          "uri" : "String"
        },
        "av-mime-exception-white-list" : {
          "av-mime-exception" : [ "String" ],
          "uri" : "String"
        },
        "profile-type" : [ "SOPHOS", "AVIRA", "NONE" ],
        "avira-load-flavour" : [ "LIGHT", "HEAVY" ],
        "uri" : "String"
      },
      "wf-default-config" : {
        "fs-timeout" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
        "port" : "Integer",
        "routing-instance" : "String",
        "block-msg-url" : "String",
        "fs-default" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
```


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```
        "quarantine-msg-type" : [ "CUSTOM_REDIRECT_URL", "NONE" ],
        "http-reassemble" : "Boolean",
        "http-persist" : "Boolean",
        "quarantine-custom-message" : "String",
        "description" : "String",
        "name" : "String",
        "safe-search" : "Boolean",
        "fs-server-connectivity" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
        "custom-block-message" : "String",
        "default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
        "block-msg-type" : [ "CUSTOM_REDIRECT_URL", "NONE" ],
        "server-host" : "String",
        "sockets" : "Integer",
        "hash-key" : "String",
        "profile-type" : [ "WEBSENSE", "LOCAL", "JUNIPER_ENHANCED", "NONE" ],
        "account" : "String",
        "cache-timeout" : "Integer",
        "timeout" : "Integer",
        "quarantine-msg-url" : "String",
        "fs-too-many-requests" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
        "cache-size" : "Integer",
        "uri" : "String"
      },
      "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
      "domain-id" : "Integer",
      "domain-name" : "String",
      "id" : "Integer",
      "cf-default-config" : {
        "profile" : {
          "permit-command-list" : {
            "permit-command" : [ "String" ],
            "uri" : "String"
          },
          "block-content-type-list" : {
            "block-content-type" : [ "ACTIVEX", "EXE", "JAVA_APPLET", "HTTP_COOKIE", "ZIP" ],
            "uri" : "String"
          },
          "block-file-extension-list" : {
            "block-file-extension" : [ "String" ],
            "uri" : "String"
          },
          "hash-key" : "String",
          "block-mime-list" : {
            "block-mime" : [ "String" ],
            "uri" : "String"
          },
          "description" : "String",
          "name" : "String",
          "notification-options" : {
            "custom-notification-message" : "String",
            "notification-type" : [ "PROTOCOL", "MESSAGE", "NONE" ],
            "custom-notification-subject" : "String",
            "notify-mail-sender" : "Boolean",
            "uri" : "String"
          },
          "block-mime-exception-list" : {
            "block-mime-exception" : [ "String" ],
            "uri" : "String"
          },
          "block-command-list" : {
            "block-command" : [ "String" ],
```


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```
          "uri" : "String"
        },
        "uri" : "String"
      },
      "hash-key" : "String",
      "description" : "String",
      "name" : "String",
      "content-filtering-type-list" : [ "SBL", "CONTENT_FILTERING_NONE" ],
      "uri" : "String"
    },
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "name" : "String",
        "uri" : "String",
        "link" : "String"
      } ],
      "uri" : "String"
    },
    "description" : "String",
    "name" : "String",
    "as-default-config" : {
      "as-profile-type" : [ "SBL", "ANTI_SPAM_NONE" ],
      "default-action" : [ "BLOCK_EMAIL", "NONE", "TAG_HEADER", "TAG_SUBJECT" ],
      "default-sbl-server" : "Boolean",
      "hash-key" : "String",
      "description" : "String",
      "name" : "String",
      "tag-string" : "String",
      "uri" : "String"
    },
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<utm-default-configurations>
  <utm-default-configuration>
    <av-default-config>
      <av-mime-white-list>
        <av-mime>String</av-mime>
        <uri>String</uri>
      </av-mime-white-list>
      <av-mime-exception-white-list>
        <av-mime-exception>String</av-mime-exception>
        <uri>String</uri>
      </av-mime-exception-white-list>
      <profile-type>SOPHOS</profile-type>
      <profile-type>AVIRA</profile-type>
      <profile-type>NONE</profile-type>
      <avira-load-flavour>LIGHT</avira-load-flavour>
      <avira-load-flavour>HEAVY</avira-load-flavour>
      <uri>String</uri>
    </av-default-config>
    <wf-default-config>
      <fs-timeout>PERMIT</fs-timeout>
      <fs-timeout>LOG_AND_PERMIT</fs-timeout>
      <fs-timeout>BLOCK</fs-timeout>
      <fs-timeout>QUARANTINE</fs-timeout>
```


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```
    <fs-timeout>NONE</fs-timeout>
    <port>Integer</port>
    <routing-instance>String</routing-instance>
    <block-msg-url>String</block-msg-url>
    <fs-default>PERMIT</fs-default>
    <fs-default>LOG_AND_PERMIT</fs-default>
    <fs-default>BLOCK</fs-default>
    <fs-default>QUARANTINE</fs-default>
    <fs-default>NONE</fs-default>
    <quarantine-msg-type>CUSTOM_REDIRECT_URL</quarantine-msg-type>
    <quarantine-msg-type>NONE</quarantine-msg-type>
    <http-reassemble>Boolean</http-reassemble>
    <http-persist>Boolean</http-persist>
    <quarantine-custom-message>String</quarantine-custom-message>
    <description>String</description>
    <name>String</name>
    <safe-search>Boolean</safe-search>
    <fs-server-connectivity>PERMIT</fs-server-connectivity>
    <fs-server-connectivity>LOG_AND_PERMIT</fs-server-connectivity>
    <fs-server-connectivity>BLOCK</fs-server-connectivity>
    <fs-server-connectivity>QUARANTINE</fs-server-connectivity>
    <fs-server-connectivity>NONE</fs-server-connectivity>
    <custom-block-message>String</custom-block-message>
    <default-action>PERMIT</default-action>
    <default-action>LOG_AND_PERMIT</default-action>
    <default-action>BLOCK</default-action>
    <default-action>QUARANTINE</default-action>
    <default-action>NONE</default-action>
    <block-msg-type>CUSTOM_REDIRECT_URL</block-msg-type>
    <block-msg-type>NONE</block-msg-type>
    <server-host>String</server-host>
    <sockets>Integer</sockets>
    <hash-key>String</hash-key>
    <profile-type>WEBSENSE</profile-type>
    <profile-type>LOCAL</profile-type>
    <profile-type>JUNIPER_ENHANCED</profile-type>
    <profile-type>NONE</profile-type>
    <account>String</account>
    <cache-timeout>Integer</cache-timeout>
    <timeout>Integer</timeout>
    <quarantine-msg-url>String</quarantine-msg-url>
    <fs-too-many-requests>PERMIT</fs-too-many-requests>
    <fs-too-many-requests>LOG_AND_PERMIT</fs-too-many-requests>
    <fs-too-many-requests>BLOCK</fs-too-many-requests>
    <fs-too-many-requests>QUARANTINE</fs-too-many-requests>
    <fs-too-many-requests>NONE</fs-too-many-requests>
    <cache-size>Integer</cache-size>
    <uri>String</uri>
</wf-default-config>
<publish-state>Not Published</publish-state>
<publish-state>Partially Published</publish-state>
<publish-state>Published</publish-state>
<publish-state>Re-Publish Required</publish-state>
<publish-state>Deleted</publish-state>
<domain-id>Integer</domain-id>
<domain-name>String</domain-name>
<id>Integer</id>
<cf-default-config>
  <profile>
    <permit-command-list>
      <permit-command>String</permit-command>
      <uri>String</uri>
    </permit-command-list>
    <block-content-type-list>
```


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```
        <block-content-type>ACTIVEX</block-content-type>
        <block-content-type>EXE</block-content-type>
        <block-content-type>JAVA_APPLET</block-content-type>
        <block-content-type>HTTP_COOKIE</block-content-type>
        <block-content-type>ZIP</block-content-type>
        <uri>String</uri>
      </block-content-type-list>
      <block-file-extension-list>
        <block-file-extension>String</block-file-extension>
        <uri>String</uri>
      </block-file-extension-list>
      <hash-key>String</hash-key>
      <block-mime-list>
        <block-mime>String</block-mime>
        <uri>String</uri>
      </block-mime-list>
      <description>String</description>
      <name>String</name>
      <notification-options>
        <custom-notification-message>String</custom-notification-message>
        <notification-type>PROTOCOL</notification-type>
        <notification-type>MESSAGE</notification-type>
        <notification-type>NONE</notification-type>
        <custom-notification-subject>String</custom-notification-subject>
        <notify-mail-sender>Boolean</notify-mail-sender>
        <uri>String</uri>
      </notification-options>
      <block-mime-exception-list>
        <block-mime-exception>String</block-mime-exception>
        <uri>String</uri>
      </block-mime-exception-list>
      <block-command-list>
        <block-command>String</block-command>
        <uri>String</uri>
      </block-command-list>
      <uri>String</uri>
    </profile>
    <hash-key>String</hash-key>
    <description>String</description>
    <name>String</name>
    <content-filtering-type-list>SBL</content-filtering-type-list>
    <content-filtering-type-list>CONTENT_FILTERING_NONE</content-filtering-type-list>
    <uri>String</uri>
  </cf-default-config>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <name>String</name>
      <uri>String</uri>
      <link>String</link>
    </device-lite>
    <uri>String</uri>
  </device-list>
  <description>String</description>
  <name>String</name>
  <as-default-config>
    <as-profile-type>SBL</as-profile-type>
    <as-profile-type>ANTI_SPAM_NONE</as-profile-type>
    <default-action>BLOCK_EMAIL</default-action>
    <default-action>NONE</default-action>
    <default-action>TAG_HEADER</default-action>
    <default-action>TAG_SUBJECT</default-action>
    <default-sbl-server>Boolean</default-sbl-server>
    <hash-key>String</hash-key>
```


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```
    <description>String</description>
    <name>String</name>
    <tag-string>String</tag-string>
    <uri>String</uri>
  </as-default-config>
  <link>String</link>
</utm-default-configuration>
<uri>String</uri>
<totalSize>Integer</totalSize>
</utm-default-configurations>
```


Delete UTM Default Configuration

Deletes a specific UTM Default Configuration from the system by its ID.

URI	/api/juniper/sd/utm-management/utm-default-configurations/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteUTMDefaultConfiguration

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CHAPTER 43

UTM Device Profile Management RESTful Web Services

The following opertions can be performed using Secuirty Director UTM Device Profile Management RESTful Web Services

Modify UTM Device Profile

This request is used to modify the UTM device profile.

URI	/api/juniper/sd/utm-management/utm-device-profiles/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.utm-management.utm-device-profile+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.utm-device-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.utm-device-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.utm-device-profile+json;version=1;q=0.01
Access-Control	modifyUTMDeviceProfile

Sample JSON Input

```
{
  "utm-device-profile" : {
    "name" : "String",
    "id" : "Integer",
    "description" : "String",
    "default-profile" : "Boolean",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "edit-version" : "Integer",
    "devices" : {
      "device" : [ {
        "name" : "String",
        "moid" : "String"
```


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```
    } ]
  },
  "as-address-white-list" : {
    "name" : "String",
    "id" : "Integer"
  },
  "as-address-black-list" : {
    "name" : "String",
    "id" : "Integer"
  },
  "av-mime-white-list" : {
    "av-mime" : [ "String" ]
  },
  "av-mime-exception-white-list" : {
    "av-mime-exception" : [ "String" ]
  },
  "av-url-category-white-list" : {
    "name" : "String",
    "id" : "Integer"
  },
  "wf-url-category-white-list" : {
    "name" : "String",
    "id" : "Integer"
  },
  "wf-url-category-black-list" : {
    "name" : "String",
    "id" : "Integer"
  },
  "very-safe-level" : "Integer",
  "moderately-safe-level" : "Integer",
  "fairly-safe-level" : "Integer",
  "suspicious-level" : "Integer",
  "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
  "uuid" : "String",
  "id_perms" : {
    "created" : "String",
    "creator" : "String",
    "last_modified" : "String"
  },
  "display_name" : "String",
  "update_number" : "int"
 }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<utm-device-profile>
  <name>String</name>
  <id>Integer</id>
  <description>String</description>
  <default-profile>Boolean</default-profile>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <edit-version>Integer</edit-version>
  <devices>
    <device>
      <name>String</name>
      <moid>String</moid>
    </device>
  </devices>
  <as-address-white-list>
    <name>String</name>
```


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```
    <id>Integer</id>
  </as-address-white-list>
  <as-address-black-list>
    <name>String</name>
    <id>Integer</id>
  </as-address-black-list>
  <av-mime-white-list>
    <av-mime>String</av-mime>
  </av-mime-white-list>
  <av-mime-exception-white-list>
    <av-mime-exception>String</av-mime-exception>
  </av-mime-exception-white-list>
  <av-url-category-white-list>
    <name>String</name>
    <id>Integer</id>
  </av-url-category-white-list>
  <wf-url-category-white-list>
    <name>String</name>
    <id>Integer</id>
  </wf-url-category-white-list>
  <wf-url-category-black-list>
    <name>String</name>
    <id>Integer</id>
  </wf-url-category-black-list>
  <very-safe-level>Integer</very-safe-level>
  <moderately-safe-level>Integer</moderately-safe-level>
  <fairly-safe-level>Integer</fairly-safe-level>
  <suspicious-level>Integer</suspicious-level>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</utm-device-profile>
```

Sample JSON Output:

```
{
  "utm-device-profile" : {
    "name" : "String",
    "id" : "Integer",
    "description" : "String",
    "default-profile" : "Boolean",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "edit-version" : "Integer",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "devices" : {
      "device" : [ {
        "name" : "String",
        "moid" : "String",
        "domain-name" : "String",
        "link" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "as-address-white-list" : {
```


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```
    "name" : "String",
    "id" : "Integer",
    "link" : "String",
    "uri" : "String"
   },
   "as-address-black-list" : {
    "name" : "String",
    "id" : "Integer",
    "uri" : "String",
    "link" : "String"
   },
   "av-mime-white-list" : {
    "av-mime" : [ "String" ],
    "uri" : "String"
   },
   "av-mime-exception-white-list" : {
    "av-mime-exception" : [ "String" ],
    "uri" : "String"
   },
   "av-url-category-white-list" : {
    "name" : "String",
    "id" : "Integer",
    "uri" : "String",
    "link" : "String"
   },
   "wf-url-category-white-list" : {
    "name" : "String",
    "id" : "Integer",
    "uri" : "String",
    "link" : "String"
   },
   "wf-url-category-black-list" : {
    "name" : "String",
    "id" : "Integer",
    "uri" : "String",
    "link" : "String"
   },
   "very-safe-level" : "Integer",
   "moderately-safe-level" : "Integer",
   "fairly-safe-level" : "Integer",
   "suspicious-level" : "Integer",
   "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
   "created-by-user-name" : "String",
   "last-modified-by-user-name" : "String",
   "link" : "String",
   "uri" : "String",
   "uuid" : "String",
   "id_perms" : {
    "created" : "String",
    "creator" : "String",
    "last_modified" : "String",
    "last-modified-by-user-name" : "String",
    "created-time" : "Date",
    "last-modified-time" : "Date"
   },
   "display_name" : "String",
   "update_number" : "int"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<utm-device-profile>
  <name>String</name>
  <id>Integer</id>
  <description>String</description>
  <default-profile>Boolean</default-profile>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <devices>
    <device>
      <name>String</name>
      <moid>String</moid>
      <domain-name>String</domain-name>
      <link>String</link>
      <uri>String</uri>
    </device>
    <uri>String</uri>
  </devices>
  <as-address-white-list>
    <name>String</name>
    <id>Integer</id>
    <link>String</link>
    <uri>String</uri>
  </as-address-white-list>
  <as-address-black-list>
    <name>String</name>
    <id>Integer</id>
    <uri>String</uri>
    <link>String</link>
  </as-address-black-list>
  <av-mime-white-list>
    <av-mime>String</av-mime>
    <uri>String</uri>
  </av-mime-white-list>
  <av-mime-exception-white-list>
    <av-mime-exception>String</av-mime-exception>
    <uri>String</uri>
  </av-mime-exception-white-list>
  <av-url-category-white-list>
    <name>String</name>
    <id>Integer</id>
    <uri>String</uri>
    <link>String</link>
  </av-url-category-white-list>
  <wf-url-category-white-list>
    <name>String</name>
    <id>Integer</id>
    <uri>String</uri>
    <link>String</link>
  </wf-url-category-white-list>
  <wf-url-category-black-list>
    <name>String</name>
    <id>Integer</id>
    <uri>String</uri>
    <link>String</link>
  </wf-url-category-black-list>
  <very-safe-level>Integer</very-safe-level>
```


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```
<moderately-safe-level>Integer</moderately-safe-level>
<fairly-safe-level>Integer</fairly-safe-level>
<suspicious-level>Integer</suspicious-level>
<publish-state>Not Published</publish-state>
<publish-state>Partially Published</publish-state>
<publish-state>Published</publish-state>
<publish-state>Re-Publish Required</publish-state>
<publish-state>Deleted</publish-state>
<created-by-user-name>String</created-by-user-name>
<last-modified-by-user-name>String</last-modified-by-user-name>
<link>String</link>
<uri>String</uri>
<uuid>String</uuid>
<id_perms>
  <created>String</created>
  <creator>String</creator>
  <last_modified>String</last_modified>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-time>Date</created-time>
  <last-modified-time>Date</last-modified-time>
</id_perms>
<display_name>String</display_name>
<update_number>int</update_number>
</utm-device-profile>
```

Get UTM Device Profile by ID

This request is used to list the UTM device profile information by ID.

URI	/api/juniper/sd/utm-management/utm-device-profiles/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.utm-device-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.utm-device-profile+json;version=1;q=0.01
Access-Control	viewUTMDeviceProfile

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Sample JSON Output:


```
{
  "utm-device-profile" : {
    "name" : "String",
    "id" : "Integer",
    "description" : "String",
    "default-profile" : "Boolean",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "edit-version" : "Integer",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "devices" : {
      "device" : [ {
        "name" : "String",
        "moid" : "String",
        "domain-name" : "String",
        "link" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "as-address-white-list" : {
      "name" : "String",
      "id" : "Integer",
      "link" : "String",
      "uri" : "String"
    },
    "as-address-black-list" : {
      "name" : "String",
      "id" : "Integer",
      "uri" : "String",
      "link" : "String"
    },
    "av-mime-white-list" : {
      "av-mime" : [ "String" ],
      "uri" : "String"
    },
    "av-mime-exception-white-list" : {
      "av-mime-exception" : [ "String" ],
      "uri" : "String"
    },
    "av-url-category-white-list" : {
      "name" : "String",
      "id" : "Integer",
      "uri" : "String",
      "link" : "String"
    },
    "wf-url-category-white-list" : {
      "name" : "String",
      "id" : "Integer",
      "uri" : "String",
      "link" : "String"
    },
    "wf-url-category-black-list" : {
      "name" : "String",
      "id" : "Integer",
      "uri" : "String",
      "link" : "String"
    },
    "very-safe-level" : "Integer",
    "moderately-safe-level" : "Integer",
    "fairly-safe-level" : "Integer",
    "suspicious-level" : "Integer",
```


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```
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "link" : "String",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<utm-device-profile>
  <name>String</name>
  <id>Integer</id>
  <description>String</description>
  <default-profile>Boolean</default-profile>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <devices>
    <device>
      <name>String</name>
      <moid>String</moid>
      <domain-name>String</domain-name>
      <link>String</link>
      <uri>String</uri>
    </device>
    <uri>String</uri>
  </devices>
  <as-address-white-list>
    <name>String</name>
    <id>Integer</id>
    <link>String</link>
    <uri>String</uri>
  </as-address-white-list>
  <as-address-black-list>
    <name>String</name>
    <id>Integer</id>
    <uri>String</uri>
    <link>String</link>
  </as-address-black-list>
  <av-mime-white-list>
    <av-mime>String</av-mime>
    <uri>String</uri>
  </av-mime-white-list>
  <av-mime-exception-white-list>
    <av-mime-exception>String</av-mime-exception>
    <uri>String</uri>
```


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```
</av-mime-exception-white-list>
<av-url-category-white-list>
  <name>String</name>
  <id>Integer</id>
  <uri>String</uri>
  <link>String</link>
</av-url-category-white-list>
<wf-url-category-white-list>
  <name>String</name>
  <id>Integer</id>
  <uri>String</uri>
  <link>String</link>
</wf-url-category-white-list>
<wf-url-category-black-list>
  <name>String</name>
  <id>Integer</id>
  <uri>String</uri>
  <link>String</link>
</wf-url-category-black-list>
<very-safe-level>Integer</very-safe-level>
<moderately-safe-level>Integer</moderately-safe-level>
<fairly-safe-level>Integer</fairly-safe-level>
<suspicious-level>Integer</suspicious-level>
<publish-state>Not Published</publish-state>
<publish-state>Partially Published</publish-state>
<publish-state>Published</publish-state>
<publish-state>Re-Publish Required</publish-state>
<publish-state>Deleted</publish-state>
<created-by-user-name>String</created-by-user-name>
<last-modified-by-user-name>String</last-modified-by-user-name>
<link>String</link>
<uri>String</uri>
<uuid>String</uuid>
<id_perms>
  <created>String</created>
  <creator>String</creator>
  <last_modified>String</last_modified>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-time>Date</created-time>
  <last-modified-time>Date</last-modified-time>
</id_perms>
<display_name>String</display_name>
<update_number>int</update_number>
</utm-device-profile>
```

Get All UTM Device Profiles

This request is used to collect all the UTM device profile objects configured in Security Director.

URI	/api/juniper/sd/utm-management/utm-device-profiles
HTTP method	GET

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Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.utm-device-profile-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.utm-device-profile-refs+json;version=1;q=0.01
Access-Control	viewUTMDeviceProfile

Sample JSON Output:


```
{
  "utm-device-profiles" : {
    "utm-device-profile" : [ {
      "as-address-white-list" : {
        "name" : "String"
      },
      "as-address-black-list" : {
        "name" : "String"
      },
      "av-url-category-white-list" : {
        "name" : "String"
      },
      "wf-url-category-white-list" : {
        "name" : "String"
      },
      "wf-url-category-black-list" : {
        "name" : "String"
      },
      "name" : "String",
      "description" : "String",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "id" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "link" : "String",
      "uri" : "String",
      "global" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<utm-device-profiles>
  <utm-device-profile>
    <as-address-white-list>
      <name>String</name>
    </as-address-white-list>
    <as-address-black-list>
      <name>String</name>
    </as-address-black-list>
    <av-url-category-white-list>
      <name>String</name>
    </av-url-category-white-list>
```


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```
    <wf-url-category-white-list>
      <name>String</name>
    </wf-url-category-white-list>
    <wf-url-category-black-list>
      <name>String</name>
    </wf-url-category-black-list>
    <name>String</name>
    <description>String</description>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <id>Integer</id>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <link>String</link>
    <uri>String</uri>
    <global>String</global>
  </utm-device-profile>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</utm-device-profiles>
```

Delete UTM Device Profile

This request is used to delete the UTM device profiles by ID.

URI	/api/juniper/sd/utm-management/utm-device-profiles/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteUTMDeviceProfile

Create UTM Device Profile

This request is used to create a new UTM device profile.

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URI	/api/juniper/sd/utm-management/utm-device-profiles
HTTP method	POST
Content-Type	application/vnd.juniper.sd.utm-management.utm-device-profile+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.utm-device-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.utm-device-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.utm-device-profile+json;version=1;q=0.01
Access-Control	createUTMDeviceProfile

Sample JSON Input


```
{
  "utm-device-profile" : {
    "name" : "String",
    "id" : "Integer",
    "description" : "String",
    "default-profile" : "Boolean",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "edit-version" : "Integer",
    "devices" : {
      "device" : [ {
        "name" : "String",
        "moid" : "String"
      } ]
    },
    "as-address-white-list" : {
      "name" : "String",
      "id" : "Integer"
    },
    "as-address-black-list" : {
      "name" : "String",
      "id" : "Integer"
    },
    "av-mime-white-list" : {
      "av-mime" : [ "String" ]
    },
    "av-mime-exception-white-list" : {
      "av-mime-exception" : [ "String" ]
    },
    "av-url-category-white-list" : {
      "name" : "String",
      "id" : "Integer"
    },
    "wf-url-category-white-list" : {
      "name" : "String",
      "id" : "Integer"
```


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```
    },
    "wf-url-category-black-list" : {
      "name" : "String",
      "id" : "Integer"
    },
    "very-safe-level" : "Integer",
    "moderately-safe-level" : "Integer",
    "fairly-safe-level" : "Integer",
    "suspicious-level" : "Integer",
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<utm-device-profile>
  <name>String</name>
  <id>Integer</id>
  <description>String</description>
  <default-profile>Boolean</default-profile>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <edit-version>Integer</edit-version>
  <devices>
    <device>
      <name>String</name>
      <moid>String</moid>
    </device>
  </devices>
  <as-address-white-list>
    <name>String</name>
    <id>Integer</id>
  </as-address-white-list>
  <as-address-black-list>
    <name>String</name>
    <id>Integer</id>
  </as-address-black-list>
  <av-mime-white-list>
    <av-mime>String</av-mime>
  </av-mime-white-list>
  <av-mime-exception-white-list>
    <av-mime-exception>String</av-mime-exception>
  </av-mime-exception-white-list>
  <av-url-category-white-list>
    <name>String</name>
    <id>Integer</id>
  </av-url-category-white-list>
  <wf-url-category-white-list>
    <name>String</name>
    <id>Integer</id>
  </wf-url-category-white-list>
  <wf-url-category-black-list>
    <name>String</name>
    <id>Integer</id>
```


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```
    </wf-url-category-black-list>
    <very-safe-level>Integer</very-safe-level>
    <moderately-safe-level>Integer</moderately-safe-level>
    <fairly-safe-level>Integer</fairly-safe-level>
    <suspicious-level>Integer</suspicious-level>
    <publish-state>Not Published</publish-state>
    <publish-state>Partially Published</publish-state>
    <publish-state>Published</publish-state>
    <publish-state>Re-Publish Required</publish-state>
    <publish-state>Deleted</publish-state>
    <uuid>String</uuid>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
    </id_perms>
    <display_name>String</display_name>
    <update_number>int</update_number>
  </utm-device-profile>
```

Sample JSON Output:

```
{
  "utm-device-profile" : {
    "name" : "String",
    "id" : "Integer",
    "description" : "String",
    "default-profile" : "Boolean",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "edit-version" : "Integer",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "devices" : {
      "device" : [ {
        "name" : "String",
        "moid" : "String",
        "domain-name" : "String",
        "link" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "as-address-white-list" : {
      "name" : "String",
      "id" : "Integer",
      "link" : "String",
      "uri" : "String"
    },
    "as-address-black-list" : {
      "name" : "String",
      "id" : "Integer",
      "uri" : "String",
      "link" : "String"
    },
    "av-mime-white-list" : {
      "av-mime" : [ "String" ],
      "uri" : "String"
    },
    "av-mime-exception-white-list" : {
      "av-mime-exception" : [ "String" ],
      "uri" : "String"
    },
    "av-url-category-white-list" : {
      "name" : "String",
      "id" : "Integer",
      "uri" : "String",
```


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```
    "link" : "String"
   },
   "wf-url-category-white-list" : {
    "name" : "String",
    "id" : "Integer",
    "uri" : "String",
    "link" : "String"
   },
   "wf-url-category-black-list" : {
    "name" : "String",
    "id" : "Integer",
    "uri" : "String",
    "link" : "String"
   },
   "very-safe-level" : "Integer",
   "moderately-safe-level" : "Integer",
   "fairly-safe-level" : "Integer",
   "suspicious-level" : "Integer",
   "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
   "created-by-user-name" : "String",
   "last-modified-by-user-name" : "String",
   "link" : "String",
   "uri" : "String",
   "uuid" : "String",
   "id_perms" : {
    "created" : "String",
    "creator" : "String",
    "last_modified" : "String",
    "last-modified-by-user-name" : "String",
    "created-time" : "Date",
    "last-modified-time" : "Date"
   },
   "display_name" : "String",
   "update_number" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<utm-device-profile>
  <name>String</name>
  <id>Integer</id>
  <description>String</description>
  <default-profile>Boolean</default-profile>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <devices>
    <device>
      <name>String</name>
      <moid>String</moid>
      <domain-name>String</domain-name>
      <link>String</link>
      <uri>String</uri>
    </device>
    <uri>String</uri>
  </devices>
  <as-address-white-list>
```


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```
      <name>String</name>
      <id>Integer</id>
      <link>String</link>
      <uri>String</uri>
    </as-address-white-list>
    <as-address-black-list>
      <name>String</name>
      <id>Integer</id>
      <uri>String</uri>
      <link>String</link>
    </as-address-black-list>
    <av-mime-white-list>
      <av-mime>String</av-mime>
      <uri>String</uri>
    </av-mime-white-list>
    <av-mime-exception-white-list>
      <av-mime-exception>String</av-mime-exception>
      <uri>String</uri>
    </av-mime-exception-white-list>
    <av-url-category-white-list>
      <name>String</name>
      <id>Integer</id>
      <uri>String</uri>
      <link>String</link>
    </av-url-category-white-list>
    <wf-url-category-white-list>
      <name>String</name>
      <id>Integer</id>
      <uri>String</uri>
      <link>String</link>
    </wf-url-category-white-list>
    <wf-url-category-black-list>
      <name>String</name>
      <id>Integer</id>
      <uri>String</uri>
      <link>String</link>
    </wf-url-category-black-list>
    <very-safe-level>Integer</very-safe-level>
    <moderately-safe-level>Integer</moderately-safe-level>
    <fairly-safe-level>Integer</fairly-safe-level>
    <suspicious-level>Integer</suspicious-level>
    <publish-state>Not Published</publish-state>
    <publish-state>Partially Published</publish-state>
    <publish-state>Published</publish-state>
    <publish-state>Re-Publish Required</publish-state>
    <publish-state>Deleted</publish-state>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <link>String</link>
    <uri>String</uri>
    <uuid>String</uuid>
    <id_perms>
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <display_name>String</display_name>
    <update_number>int</update_number>
</utm-device-profile>
```


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CHAPTER 44

UTM Policy Management RESTful Web Services

The following opertions can be performed using Secuirty Director UTM Policy Management RESTful Web Services

Retrieve All UTM Policies (Paginated)

Fetches a paginated list of all configured UTM (Unified Threat Management) Policies.

URI	/api/juniper/sd/utm-management/utm-policies
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.utm-policies+xml;version=2;q=0.02 application/vnd.juniper.sd.utm-management.utm-policies+json;version=2;q=0.02
Access-Control	viewUTM

Sample JSON Output:


```
{
  "utm-policies" : {
    "utm-policy" : [ {
      "id" : "Integer",
      "anti-virus-profiles" : {
        "smtp-profile" : {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "domain-name" : "String",
          "uri" : "String"
        },
        "pop3-profile" : {
          "id" : "Integer",
```


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```
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
   },
   "imap-profile" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
   },
   "ftp-upload-profile" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
   },
   "ftp-download-profile" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
   },
   "http-profile" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
   },
   "default-profile" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
   },
   "uri" : "String"
  },
  "domain-name" : "String",
  "domain-id" : "Integer",
  "content-filtering-profiles" : {
   "smtp-profile" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
   },
   "pop3-profile" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
   },
   "imap-profile" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
```


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```
        "uri" : "String"
      },
      "ftp-upload-profile" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "ftp-download-profile" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "http-profile" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "default-profile" : {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      },
      "uri" : "String"
    },
    "web-filtering-profiles" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "description" : "String",
    "name" : "String",
    "anti-spam-profiles" : {
      "id" : "Integer",
      "name" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    },
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<utm-policies>
  <utm-policy>
    <id>Integer</id>
    <anti-virus-profiles>
      <smtp-profile>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <domain-name>String</domain-name>
        <uri>String</uri>
      </smtp-profile>
      <pop3-profile>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <domain-name>String</domain-name>
        <uri>String</uri>
      </pop3-profile>
      <imap-profile>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <domain-name>String</domain-name>
        <uri>String</uri>
      </imap-profile>
      <ftp-upload-profile>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <domain-name>String</domain-name>
        <uri>String</uri>
      </ftp-upload-profile>
      <ftp-download-profile>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <domain-name>String</domain-name>
        <uri>String</uri>
      </ftp-download-profile>
      <http-profile>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <domain-name>String</domain-name>
        <uri>String</uri>
      </http-profile>
      <default-profile>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <domain-name>String</domain-name>
        <uri>String</uri>
      </default-profile>
      <uri>String</uri>
    </anti-virus-profiles>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <content-filtering-profiles>
      <smtp-profile>
        <id>Integer</id>
        <name>String</name>
```


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```
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
    </smtp-profile>
    <pop3-profile>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
    </pop3-profile>
    <imap-profile>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
    </imap-profile>
    <ftp-upload-profile>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
    </ftp-upload-profile>
    <ftp-download-profile>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
    </ftp-download-profile>
    <http-profile>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
    </http-profile>
    <default-profile>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
    </default-profile>
    <uri>String</uri>
  </content-filtering-profiles>
  <web-filtering-profiles>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
  </web-filtering-profiles>
  <description>String</description>
  <name>String</name>
  <anti-spam-profiles>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
  </anti-spam-profiles>
```


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```
    <uri>String</uri>
    <link>String</link>
  </utm-policy>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</utm-policies>
```

Modify UTM Policy

This request is used to modify an UTM policy.

URI	/api/juniper/sd/utm-management/utm-policies/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.utm-management.utm-policy+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.utm-policy+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.utm-policy+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.utm-policy+json;version=1;q=0.01
Access-Control	modifyUTM

Sample JSON Input

```
{
  "utm-policy" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "session-over-limit-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "anti-spam-profile" : { },
    "content-filtering-profiles" : {
      "smtp-profile" : { },
      "pop3-profile" : { },
      "imap-profile" : { },
      "ftp-upload-profile" : { },
      "ftp-download-profile" : { },
      "http-profile" : { },
      "default-profile" : { }
    },
    "web-filtering-profile" : { },
    "anti-virus-profiles" : {
```


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```
      "smtp-profile" : { },
      "pop3-profile" : { },
      "imap-profile" : { },
      "ftp-upload-profile" : { },
      "ftp-download-profile" : { },
      "http-profile" : { },
      "default-profile" : { }
    },
    "sessions-per-client" : "Integer",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<utm-policy>
  <name>String</name>
  <description>String</description>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <session-over-limit-action>PERMIT</session-over-limit-action>
  <session-over-limit-action>LOG_AND_PERMIT</session-over-limit-action>
  <session-over-limit-action>BLOCK</session-over-limit-action>
  <session-over-limit-action>NONE</session-over-limit-action>
  <anti-spam-profile/>
  <content-filtering-profiles>
    <smtp-profile/>
    <pop3-profile/>
    <imap-profile/>
    <ftp-upload-profile/>
    <ftp-download-profile/>
    <http-profile/>
    <default-profile/>
  </content-filtering-profiles>
  <web-filtering-profile/>
  <anti-virus-profiles>
    <smtp-profile/>
    <pop3-profile/>
    <imap-profile/>
    <ftp-upload-profile/>
    <ftp-download-profile/>
    <http-profile/>
    <default-profile/>
  </anti-virus-profiles>
  <sessions-per-client>Integer</sessions-per-client>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</utm-policy>
```


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Sample JSON Output:


```
{
  "utm-policy" : {
    "name" : "String",
    "description" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "session-over-limit-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "anti-spam-profile" : { },
    "content-filtering-profiles" : {
      "smtp-profile" : { },
      "pop3-profile" : { },
      "imap-profile" : { },
      "ftp-upload-profile" : { },
      "ftp-download-profile" : { },
      "http-profile" : { },
      "default-profile" : { },
      "uri" : "String"
    },
    "web-filtering-profile" : { },
    "anti-virus-profiles" : {
      "smtp-profile" : { },
      "pop3-profile" : { },
      "imap-profile" : { },
      "ftp-upload-profile" : { },
      "ftp-download-profile" : { },
      "http-profile" : { },
      "default-profile" : { },
      "uri" : "String"
    },
    "sessions-per-client" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<utm-policy>
  <name>String</name>
  <description>String</description>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
```


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```
<definition-type>All</definition-type>
<session-over-limit-action>PERMIT</session-over-limit-action>
<session-over-limit-action>LOG_AND_PERMIT</session-over-limit-action>
<session-over-limit-action>BLOCK</session-over-limit-action>
<session-over-limit-action>NONE</session-over-limit-action>
<anti-spam-profile/>
<content-filtering-profiles>
  <smtp-profile/>
  <pop3-profile/>
  <imap-profile/>
  <ftp-upload-profile/>
  <ftp-download-profile/>
  <http-profile/>
  <default-profile/>
  <uri>String</uri>
</content-filtering-profiles>
<web-filtering-profile/>
<anti-virus-profiles>
  <smtp-profile/>
  <pop3-profile/>
  <imap-profile/>
  <ftp-upload-profile/>
  <ftp-download-profile/>
  <http-profile/>
  <default-profile/>
  <uri>String</uri>
</anti-virus-profiles>
<sessions-per-client>Integer</sessions-per-client>
<created-by-user-name>String</created-by-user-name>
<last-modified-by-user-name>String</last-modified-by-user-name>
<uri>String</uri>
<uuid>String</uuid>
<id_perms>
  <created>String</created>
  <creator>String</creator>
  <last_modified>String</last_modified>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-time>Date</created-time>
  <last-modified-time>Date</last-modified-time>
</id_perms>
<display_name>String</display_name>
<update_number>int</update_number>
</utm-policy>
```


Get UTM Policy by ID

This reuqest is used to list the UTM policy information by ID.

URI	/api/juniper/sd/utm-management/utm-policies/{id}
HTTP method	GET

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Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.utm-policy+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.utm-policy+json;version=1;q=0.01
Access-Control	viewUTM

Sample JSON Output:


```
{
  "utm-policy" : {
    "name" : "String",
    "description" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "session-over-limit-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "anti-spam-profile" : { },
    "content-filtering-profiles" : {
      "smtp-profile" : { },
      "pop3-profile" : { },
      "imap-profile" : { },
      "ftp-upload-profile" : { },
      "ftp-download-profile" : { },
      "http-profile" : { },
      "default-profile" : { },
      "uri" : "String"
    },
    "web-filtering-profile" : { },
    "anti-virus-profiles" : {
      "smtp-profile" : { },
      "pop3-profile" : { },
      "imap-profile" : { },
      "ftp-upload-profile" : { },
      "ftp-download-profile" : { },
      "http-profile" : { },
      "default-profile" : { },
      "uri" : "String"
    },
    "sessions-per-client" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
```


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}

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<utm-policy>
  <name>String</name>
  <description>String</description>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <session-over-limit-action>PERMIT</session-over-limit-action>
  <session-over-limit-action>LOG_AND_PERMIT</session-over-limit-action>
  <session-over-limit-action>BLOCK</session-over-limit-action>
  <session-over-limit-action>NONE</session-over-limit-action>
  <anti-spam-profile/>
  <content-filtering-profiles>
    <smtp-profile/>
    <pop3-profile/>
    <imap-profile/>
    <ftp-upload-profile/>
    <ftp-download-profile/>
    <http-profile/>
    <default-profile/>
    <uri>String</uri>
  </content-filtering-profiles>
  <web-filtering-profile/>
  <anti-virus-profiles>
    <smtp-profile/>
    <pop3-profile/>
    <imap-profile/>
    <ftp-upload-profile/>
    <ftp-download-profile/>
    <http-profile/>
    <default-profile/>
    <uri>String</uri>
  </anti-virus-profiles>
  <sessions-per-client>Integer</sessions-per-client>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
```


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</utm-policy>

Get All UTM Policies

This request is used to collect all the UTM policy objects configured in Security Director.

URI	/api/juniper/sd/utm-management/utm-policies
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.utm-policy-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.utm-policy-refs+json;version=1;q=0.01
Access-Control	viewUTM

Sample JSON Output:


```
{
  "utm-policies" : {
    "utm-policy" : [ {
      "name" : "String",
      "description" : "String",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "id" : "Integer",
      "edit-version" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "session-over-limit-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
      "anti-spam-profile" : { },
      "content-filtering-profiles" : {
        "smtp-profile" : { },
        "pop3-profile" : { },
        "imap-profile" : { },
        "ftp-upload-profile" : { },
        "ftp-download-profile" : { },
        "http-profile" : { },
```


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```
      "default-profile" : { },
      "uri" : "String"
    },
    "web-filtering-profile" : { },
    "anti-virus-profiles" : {
      "smtp-profile" : { },
      "pop3-profile" : { },
      "imap-profile" : { },
      "ftp-upload-profile" : { },
      "ftp-download-profile" : { },
      "http-profile" : { },
      "default-profile" : { },
      "uri" : "String"
    },
    "sessions-per-client" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String"
   } ],
   "uri" : "String",
   "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<utm-policies>
  <utm-policy>
    <name>String</name>
    <description>String</description>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <id>Integer</id>
    <edit-version>Integer</edit-version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <session-over-limit-action>PERMIT</session-over-limit-action>
    <session-over-limit-action>LOG_AND_PERMIT</session-over-limit-action>
    <session-over-limit-action>BLOCK</session-over-limit-action>
    <session-over-limit-action>NONE</session-over-limit-action>
    <anti-spam-profile/>
    <content-filtering-profiles>
      <smtp-profile/>
      <pop3-profile/>
      <imap-profile/>
      <ftp-upload-profile/>
      <ftp-download-profile/>
      <http-profile/>
      <default-profile/>
      <uri>String</uri>
    </content-filtering-profiles>
    <web-filtering-profile/>
    <anti-virus-profiles>
      <smtp-profile/>
      <pop3-profile/>
      <imap-profile/>
      <ftp-upload-profile/>
      <ftp-download-profile/>
      <http-profile/>
      <default-profile/>
      <uri>String</uri>
```


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```
    </anti-virus-profiles>
    <sessions-per-client>Integer</sessions-per-client>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <uri>String</uri>
  </utm-policy>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</utm-policies>
```

Delete UTM Policy

This request is used to delete the UTM policies by ID.

URI	/api/juniper/sd/utm-management/utm-policies/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteUTM

Create UTM Policy

This request is used to create an UTM policy.

URI	/api/juniper/sd/utm-management/utm-policies
HTTP method	POST
Content-Type	application/vnd.juniper.sd.utm-management.utm-policy+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.utm-policy+json;version=1;charset=UTF-8

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Accept-Type	application/vnd.juniper.sd.utm-management.utm-policy+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.utm-policy+json;version=1;q=0.01
Access-Control	createUTM

Sample JSON Input

```
{
  "utm-policy" : {
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "session-over-limit-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "anti-spam-profile" : { },
    "content-filtering-profiles" : {
      "smtp-profile" : { },
      "pop3-profile" : { },
      "imap-profile" : { },
      "ftp-upload-profile" : { },
      "ftp-download-profile" : { },
      "http-profile" : { },
      "default-profile" : { }
    },
    "web-filtering-profile" : { },
    "anti-virus-profiles" : {
      "smtp-profile" : { },
      "pop3-profile" : { },
      "imap-profile" : { },
      "ftp-upload-profile" : { },
      "ftp-download-profile" : { },
      "http-profile" : { },
      "default-profile" : { }
    },
    "sessions-per-client" : "Integer",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<utm-policy>
  <name>String</name>
  <description>String</description>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <session-over-limit-action>PERMIT</session-over-limit-action>
  <session-over-limit-action>LOG_AND_PERMIT</session-over-limit-action>
  <session-over-limit-action>BLOCK</session-over-limit-action>
```


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```
  <session-over-limit-action>NONE</session-over-limit-action>
  <anti-spam-profile/>
  <content-filtering-profiles>
    <smtp-profile/>
    <pop3-profile/>
    <imap-profile/>
    <ftp-upload-profile/>
    <ftp-download-profile/>
    <http-profile/>
    <default-profile/>
  </content-filtering-profiles>
  <web-filtering-profile/>
  <anti-virus-profiles>
    <smtp-profile/>
    <pop3-profile/>
    <imap-profile/>
    <ftp-upload-profile/>
    <ftp-download-profile/>
    <http-profile/>
    <default-profile/>
  </anti-virus-profiles>
  <sessions-per-client>Integer</sessions-per-client>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</utm-policy>
```

Sample JSON Output:

```
{
 "utm-policy" : {
   "name" : "String",
   "description" : "String",
   "domain-name" : "String",
   "domain-id" : "Integer",
   "id" : "Integer",
   "edit-version" : "Integer",
   "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
   "session-over-limit-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
   "anti-spam-profile" : { },
   "content-filtering-profiles" : {
     "smtp-profile" : { },
     "pop3-profile" : { },
     "imap-profile" : { },
     "ftp-upload-profile" : { },
     "ftp-download-profile" : { },
     "http-profile" : { },
     "default-profile" : { },
     "uri" : "String"
   },
   "web-filtering-profile" : { },
   "anti-virus-profiles" : {
     "smtp-profile" : { },
     "pop3-profile" : { },
     "imap-profile" : { },
     "ftp-upload-profile" : { },
     "ftp-download-profile" : { },
     "http-profile" : { },
     "default-profile" : { },
     "uri" : "String"
   },
```


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```
    "sessions-per-client" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<utm-policy>
  <name>String</name>
  <description>String</description>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <session-over-limit-action>PERMIT</session-over-limit-action>
  <session-over-limit-action>LOG_AND_PERMIT</session-over-limit-action>
  <session-over-limit-action>BLOCK</session-over-limit-action>
  <session-over-limit-action>NONE</session-over-limit-action>
  <anti-spam-profile/>
  <content-filtering-profiles>
    <smtp-profile/>
    <pop3-profile/>
    <imap-profile/>
    <ftp-upload-profile/>
    <ftp-download-profile/>
    <http-profile/>
    <default-profile/>
    <uri>String</uri>
  </content-filtering-profiles>
  <web-filtering-profile/>
  <anti-virus-profiles>
    <smtp-profile/>
    <pop3-profile/>
    <imap-profile/>
    <ftp-upload-profile/>
    <ftp-download-profile/>
    <http-profile/>
    <default-profile/>
    <uri>String</uri>
  </anti-virus-profiles>
  <sessions-per-client>Integer</sessions-per-client>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
  <uuid>String</uuid>
  <id_perms>
```


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```
      <created>String</created>
      <creator>String</creator>
      <last_modified>String</last_modified>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <created-time>Date</created-time>
      <last-modified-time>Date</last-modified-time>
    </id_perms>
    <display_name>String</display_name>
    <update_number>int</update_number>
</utm-policy>
```


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CHAPTER 45

VPN Device Interface Item Selector Management RESTful Web Services

The following opertions can be performed using Secuirty Director VPN Device Interface Item Selector Management RESTful Web Services

Get Available Devices

Retrieves the list of devices available for selection for a given store ID within the item selector.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/available-devices?resetStore=boolean
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.device-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.device-refs+json;version=1;q=0.01
Access-Control	VPN.read

Sample JSON Output:


```
{
  "vpn-devices" : {
    "device" : [ {
      "domain-id" : "Integer",
      "domain-name" : "String",
      "cluster-id" : "String",
      "devJunosVersion" : "String",
      "name" : "String",
      "display-name" : "String",
      "moid" : "String",
      "device-ip" : "String",
      "device-family" : "String",
      "is-extranet" : "Integer",
      "is-hub" : "Integer",
      "type" : "String",
      "id" : "Integer",
      "uri" : "String",
```


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```
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<vpn-devices>
  <device>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <cluster-id>String</cluster-id>
    <devJunosVersion>String</devJunosVersion>
    <name>String</name>
    <display-name>String</display-name>
    <moid>String</moid>
    <device-ip>String</device-ip>
    <device-family>String</device-family>
    <is-extranet>Integer</is-extranet>
    <is-hub>Integer</is-hub>
    <type>String</type>
    <id>Integer</id>
    <uri>String</uri>
    <link>String</link>
  </device>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</vpn-devices>
```


Get Selected Devices

Retrieves the list of devices currently selected for a given store ID within the item selector.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/selected-devices
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.device-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.device-refs+json;version=1;q=0.01
Access-Control	VPN.read

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Sample JSON Output:


```
{
  "vpn-devices" : {
    "device" : [ {
      "domain-id" : "Integer",
      "domain-name" : "String",
      "cluster-id" : "String",
      "devJunosVersion" : "String",
      "name" : "String",
      "display-name" : "String",
      "moid" : "String",
      "device-ip" : "String",
      "device-family" : "String",
      "is-extranet" : "Integer",
      "is-hub" : "Integer",
      "type" : "String",
      "id" : "Integer",
      "uri" : "String",
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<vpn-devices>
  <device>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <cluster-id>String</cluster-id>
    <devJunosVersion>String</devJunosVersion>
    <name>String</name>
    <display-name>String</display-name>
    <moid>String</moid>
    <device-ip>String</device-ip>
    <device-family>String</device-family>
    <is-extranet>Integer</is-extranet>
    <is-hub>Integer</is-hub>
    <type>String</type>
    <id>Integer</id>
    <uri>String</uri>
    <link>String</link>
  </device>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</vpn-devices>
```


Select Devices for Item Selector

Adds specified devices to the selected list for a given store ID within the item selector.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/select

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HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.item-selector.device-ids+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.vpn-management.item-selector.device-ids+json;version=1;charset=UTF-8
Accept-Type	None
Access-Control	VPN.create

Sample JSON Input

```
{
  "id-list" : {
    "ids" : [ "Integer" ]
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
</id-list>
```

Deselect Devices for Item Selector

Removes specified devices from the selected list for a given store ID within the item selector.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/deselect
HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.item-selector.device-ids+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.vpn-management.item-selector.device-ids+json;version=1;charset=UTF-8

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Accept-Type	None
Access-Control	VPN.create

Sample JSON Input

```
{
  "id-list" : {
    "ids" : [ "Integer" ]
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
</id-list>
```

Get Available Device IDs for Item Selector

Retrieves a list of IDs for all devices available for selection for a given store ID.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/available-device-ids
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.device-ids+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.device-ids+json;version=1;q=0.01
Access-Control	VPN.read

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Sample JSON Output:


```
{
  "id-list" : {
    "ids" : [ "Integer" ]
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
</id-list>
```


Get Selected Hub Devices

Retrieves the list of hub devices currently selected for a given store ID within the item selector.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/selected-devices-hub
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.device-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.device-refs+json;version=1;q=0.01
Access-Control	VPN.read

Sample JSON Output:


```
{
  "vpn-devices" : {
    "device" : [ {
      "domain-id" : "Integer",
      "domain-name" : "String",
      "cluster-id" : "String",
      "devJunosVersion" : "String",
      "name" : "String",
      "display-name" : "String",
      "moid" : "String",
      "device-ip" : "String",
      "device-family" : "String",
```


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```
      "is-extranet" : "Integer",
      "is-hub" : "Integer",
      "type" : "String",
      "id" : "Integer",
      "uri" : "String",
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<vpn-devices>
  <device>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <cluster-id>String</cluster-id>
    <devJunosVersion>String</devJunosVersion>
    <name>String</name>
    <display-name>String</display-name>
    <moid>String</moid>
    <device-ip>String</device-ip>
    <device-family>String</device-family>
    <is-extranet>Integer</is-extranet>
    <is-hub>Integer</is-hub>
    <type>String</type>
    <id>Integer</id>
    <uri>String</uri>
    <link>String</link>
  </device>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</vpn-devices>
```


Select Hub Devices for Item Selector

Adds specified devices as hub devices to the selected list for a given store ID within the item selector.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/select-hub
HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.item-selector.device-ids+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.vpn-management.item-selector.device-ids+json;version=1;charset=UTF-8
Accept-Type	None

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Access-Control	VPN.create

Sample JSON Input

```
{
  "id-list" : {
    "ids" : [ "Integer" ]
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
</id-list>
```

Get Selected Device IDs for Item Selector

Retrieves a list of IDs for devices currently selected for a given store ID.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/selected-device-ids
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.device-ids+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.device-ids+json;version=1;q=0.01
Access-Control	VPN.read

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Sample JSON Output:

```
{
  "id-list" : {
    "ids" : [ "Integer" ]
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
</id-list>
```

Get Selected Hub Device IDs for Item Selector

Retrieves a list of IDs for hub devices currently selected for a given store ID.

URI	/api/juniper/sd/vpn-management/vpn-ui/item-selector/{store-id}/selected-device-ids-hub
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.device-ids+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.device-ids+json;version=1;q=0.01
Access-Control	VPN.read

Sample JSON Output:

```
{
  "id-list" : {
    "ids" : [ "Integer" ]
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
</id-list>
```


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CHAPTER 46

VPN Import Wizard Management RESTful Web Services

The following opertions can be performed using Secuirty Director VPN Import Wizard Management RESTful Web Services

Import VPN Configuration

URI	/api/juniper/sd/vpn-management/vpn-import/import-vpn?uiSessionId=String&browserId=String
HTTP method	POST
Content-Type	application/vnd.sd.vpn-management.vpn-import.import-vpn-request+xml;version=2;charset=UTF-8 application/vnd.sd.vpn-management.vpn-import.import-vpn-request+json;version=2;charset=UTF-8
Accept-Type	application/vnd.net.juniper.space.job-management.task+xml;version=1;q=0.02 application/vnd.net.juniper.space.job-management.task+json;version=1;q=0.02
Access-Control	VPN.create

Sample JSON Input

```
{
  "import-vpn-request" : {
    "device-ids" : {
      "device-id" : [ "Integer" ]
    }
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<import-vpn-request>
  <device-ids>
    <device-id>Integer</device-id>
  </device-ids>
</import-vpn-request>
```

Sample JSON Output:

```
{
  "task" : {
    "id" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<task>
  <id>String</id>
</task>
```

Retrieve All VPNs (for Import Context)

Fetches a list of all VPNs available for import or management within a UI session.

URI	/api/juniper/sd/vpn-management/vpn-import/vpns?uiSessionId=String
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.sd.vpn-management.vpn-import.vpns+xml;version=2;q=0.02 application/vnd.sd.vpn-management.vpn-import.vpns+json;version=2;q=0.02
Access-Control	VPN.read

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Sample JSON Output:


```
{
  "vpns" : {
    "vpn-basic-import-bean" : [ {
      "tunnel-interface-type" : [ "Numbered", "Unnumbered" ],
      "vpn-tunnel-mode-types" : [ "Route Based", "Policy Based" ],
      "multi-proxy-id" : "Boolean",
      "preshared-key-type" : [ "Auto-generate", "Manual", "None" ],
      "name" : "String",
      "topology-type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP Client", "Remote VPN Juniper Secure Connect", "None" ],
      "routing-type" : [ "OSPF", "RIP", "Static Routing", "No Routing", "BGP", "Trafic Selector" ],
      "profile" : {
        "id" : "Integer",
        "name" : "String",
        "uri" : "String"
      },
      "id" : "String",
      "checked" : "Boolean",
      "error-msg" : "String",
      "error-level" : "Integer",
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<vpns>
  <vpn-basic-import-bean>
    <tunnel-interface-type>Numbered</tunnel-interface-type>
    <tunnel-interface-type>Unnumbered</tunnel-interface-type>
    <vpn-tunnel-mode-types>Route Based</vpn-tunnel-mode-types>
    <vpn-tunnel-mode-types>Policy Based</vpn-tunnel-mode-types>
    <multi-proxy-id>Boolean</multi-proxy-id>
    <preshared-key-type>Auto-generate</preshared-key-type>
    <preshared-key-type>Manual</preshared-key-type>
    <preshared-key-type>None</preshared-key-type>
    <name>String</name>
    <topology-type>Hub and Spoke(Establishment All Peers)</topology-type>
    <topology-type>Full Mesh</topology-type>
    <topology-type>Site to Site</topology-type>
    <topology-type>Hub and Spoke(Establishment by Spokes)</topology-type>
    <topology-type>Hub and Spoke(ADVPN - Auto Discovery VPN)</topology-type>
    <topology-type>Remote VPN NCP Client</topology-type>
    <topology-type>Remote VPN Juniper Secure Connect</topology-type>
    <topology-type>None</topology-type>
    <routing-type>OSPF</routing-type>
    <routing-type>RIP</routing-type>
    <routing-type>Static Routing</routing-type>
    <routing-type>No Routing</routing-type>
    <routing-type>BGP</routing-type>
    <routing-type>Trafic Selector</routing-type>
    <profile>
      <id>Integer</id>
      <name>String</name>
      <uri>String</uri>
    </profile>
    <id>String</id>
    <checked>Boolean</checked>
```


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```
    <error-msg>String</error-msg>
    <error-level>Integer</error-level>
    <link>String</link>
  </vpn-basic-import-bean>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</vpns>
```

Retrieve Total VPN Count (for Import Context)

Fetches the total count of VPNs available for import or management within a UI session.

URI	/api/juniper/sd/vpn-management/vpn-import/vpn-count?uiSessionId=String
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.sd.vpn-management.vpn-import.vpn-count+xml;version=2;q=0.02 application/vnd.sd.vpn-management.vpn-import.vpn-count+json;version=2;q=0.02
Access-Control	VPN.read

Sample JSON Output:

```
{
  "imported-vpn-count" : {
    "value" : "Integer"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<imported-vpn-count>
   <value>Integer</value>
</imported-vpn-count>
```


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Rename Imported VPN

Renames a VPN that has been imported into the system.

URI	/api/juniper/sd/vpn-management/vpn-import/rename-vpn?currentVpnName=String&newVpnName=String&uiSessionId=String
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.sd.vpn-management.vpn-import.rename-vpn-response+xml;version=2;q=0.02 application/vnd.sd.vpn-management.vpn-import.rename-vpn-response+json;version=2;q=0.02
Access-Control	VPN.update

Sample JSON Output:

```
{
  "rename-vpn" : {
    "value" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<rename-vpn>
   <value>String</value>
</rename-vpn>
```

Run VPN Correlation

Initiates a process to correlate imported VPNs with existing configurations.

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URI	/api/juniper/sd/vpn-management/vpn-import/run-vpn-correlation?uiSessionId=String&browserId=String
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.sd.vpn-management.vpn-import.run-vpn-correlation-response+xml;version=2;q=0.02 application/vnd.sd.vpn-management.vpn-import.run-vpn-correlation-response+json;version=2;q=0.02
Access-Control	VPN.update

Sample JSON Output:

```
{
  "run-vpn-correlation" : {
    "value" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<run-vpn-correlation>
   <value>String</value>
</run-vpn-correlation>
```

Retrieve All VPN Import Conflicts

Fetches a list of all detected conflicts during VPN import or correlation.

URI	/api/juniper/sd/vpn-management/vpn-import/get-all-conflicts?uiSessionId=String
HTTP method	GET

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Content-Type	None
Accept-Type	application/vnd.sd.vpn-management.vpn-import.get-conflicts-response+xml;version=2;q=0.02 application/vnd.sd.vpn-management.vpn-import.get-conflicts-response+json;version=2;q=0.02
Access-Control	VPN.read

Sample JSON Output:

```
{
  "conflicting-associations" : {
    "vpn-import-conflicts-bean" : [ {
      "local-ep" : "String",
      "remote-eps" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<conflicting-associations>
   <vpn-import-conflicts-bean>
      <local-ep>String</local-ep>
      <remote-eps>String</remote-eps>
   </vpn-import-conflicts-bean>
   <uri>String</uri>
   <totalSize>Integer</totalSize>
</conflicting-associations>
```

Retrieve All Devices Associated with a VPN (for Import Context)

Fetches a list of devices associated with a specific VPN, in the context of VPN import.

URI	/api/juniper/sd/vpn-management/vpn-import/vpns/{vpn-name}/devices-of-vpn?uiSessionId=String
HTTP method	GET
Content-Type	None

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Accept-Type	application/vnd.sd.vpn-management.vpn-import.devices-of-vpns+xml;version=2;q=0.02 application/vnd.sd.vpn-management.vpn-import.devices-of-vpns+json;version=2;q=0.02
Access-Control	VPN.read

Sample JSON Output:


```
{
  "devices-of-vpns" : {
    "vpn-device-import-bean" : [ {
      "gw-address" : "String",
      "device-ip" : "String",
      "id" : "Integer",
      "device-name" : "String",
      "is-hub" : "Boolean",
      "warning" : "String",
      "status-level" : "Integer",
      "error-msg" : "[]",
      "error-level" : "Integer",
      "extranet-device" : "Boolean",
      "checked" : "Boolean",
      "link" : "String",
      "vpn-type" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<devices-of-vpns>
  <vpn-device-import-bean>
    <gw-address>String</gw-address>
    <device-ip>String</device-ip>
    <id>Integer</id>
    <device-name>String</device-name>
    <is-hub>Boolean</is-hub>
    <warning>String</warning>
    <status-level>Integer</status-level>
    <error-msg>[]</error-msg>
    <error-level>Integer</error-level>
    <extranet-device>Boolean</extranet-device>
    <checked>Boolean</checked>
    <link>String</link>
    <vpn-type>String</vpn-type>
  </vpn-device-import-bean>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</devices-of-vpns>
```


Retrieve All Endpoints of a VPN Device (for Import Context)

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Fetches a list of VPN endpoints configured on a specific device within a VPN.

URI	/api/juniper/sd/vpn-management/vpn-import/vpns/{vpn-name}/devices-of-vpn/{id}/end-points-of-device?uiSessionId=String
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.sd.vpn-management.vpn-import.end-points-of-devices+xml;version=2;q=0.02 application/vnd.sd.vpn-management.vpn-import.end-points-of-devices+json;version=2;q=0.02
Access-Control	VPN.read

Sample JSON Output:


```
{
  "end-points-of-devices" : {
    "vpn-end-point-import-bean" : [ {
      "vpn-name-in-device" : "String",
      "error-msg" : "[]",
      "remote-end-point" : {
        "gw-address" : "String",
        "vpn-name-in-device" : "String",
        "error-msg" : "String",
        "device-ip" : "String",
        "ike-id-type" : [ "None", "Host Name", "User At Hostname", "IP Address", "DN" ],
        "ike-id" : "String",
        "ike-gw-name" : "String",
        "is-hub" : "Boolean",
        "tunnel-if-name" : "String",
        "error-level" : "Integer",
        "display-name" : "String",
        "uri" : "String"
      },
      "device-name" : "String",
      "ike-id-type" : [ "None", "Host Name", "User At Hostname", "IP Address", "DN" ],
      "extranet-device" : "Boolean",
      "error-level" : "Integer",
      "ike-policy-name" : "String",
      "ipsec-policy-name" : "String",
      "proxy-id" : "String",
      "gw-address" : "String",
      "device-ip" : "String",
      "id" : "Integer",
      "ike-id" : "String",
      "ike-gw-name" : "String",
      "is-hub" : "Boolean",
      "tunnel-if-name" : "String",
      "profile" : {
```


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```
    "id" : "Integer",
    "name" : "String",
    "uri" : "String"
   },
   "device" : {
    "id" : "Integer",
    "name" : "String",
    "uri" : "String"
   },
   "display-name" : "String",
   "warning" : "String",
   "status-level" : "Integer",
   "checked" : "Boolean",
   "uri" : "String",
   "key" : "String"
  } ],
  "remote-vpn-end-point-import-bean" : [ {
   "vpn-name-in-device" : "String",
   "error-msg" : "[]",
   "remote-end-point" : {
    "gw-address" : "String",
    "vpn-name-in-device" : "String",
    "error-msg" : "String",
    "device-ip" : "String",
    "ike-id-type" : [ "None", "Host Name", "User At Hostname", "IP Address", "DN" ],
    "ike-id" : "String",
    "ike-gw-name" : "String",
    "is-hub" : "Boolean",
    "tunnel-if-name" : "String",
    "error-level" : "Integer",
    "display-name" : "String",
    "uri" : "String"
   },
   "device-name" : "String",
   "ike-id-type" : [ "None", "Host Name", "User At Hostname", "IP Address", "DN" ],
   "extranet-device" : "Boolean",
   "error-level" : "Integer",
   "ike-policy-name" : "String",
   "ipsec-policy-name" : "String",
   "proxy-id" : "String",
   "gw-address" : "String",
   "device-ip" : "String",
   "id" : "Integer",
   "ike-id" : "String",
   "ike-gw-name" : "String",
   "is-hub" : "Boolean",
   "tunnel-if-name" : "String",
   "profile" : {
    "id" : "Integer",
    "name" : "String",
    "uri" : "String"
   },
   "device" : {
    "id" : "Integer",
    "name" : "String",
    "uri" : "String"
   },
   "display-name" : "String",
   "warning" : "String",
   "status-level" : "Integer",
   "checked" : "Boolean",
   "uri" : "String",
   "key" : "String"
  } ],
```


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```
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<end-points-of-devices>
  <vpn-end-point-import-bean>
    <vpn-name-in-device>String</vpn-name-in-device>
    <error-msg>[]</error-msg>
    <remote-end-point>
      <gw-address>String</gw-address>
      <vpn-name-in-device>String</vpn-name-in-device>
      <error-msg>String</error-msg>
      <device-ip>String</device-ip>
      <ike-id-type>None</ike-id-type>
      <ike-id-type>Host Name</ike-id-type>
      <ike-id-type>User At Hostname</ike-id-type>
      <ike-id-type>IP Address</ike-id-type>
      <ike-id-type>DN</ike-id-type>
      <ike-id>String</ike-id>
      <ike-gw-name>String</ike-gw-name>
      <is-hub>Boolean</is-hub>
      <tunnel-if-name>String</tunnel-if-name>
      <error-level>Integer</error-level>
      <display-name>String</display-name>
      <uri>String</uri>
    </remote-end-point>
    <device-name>String</device-name>
    <ike-id-type>None</ike-id-type>
    <ike-id-type>Host Name</ike-id-type>
    <ike-id-type>User At Hostname</ike-id-type>
    <ike-id-type>IP Address</ike-id-type>
    <ike-id-type>DN</ike-id-type>
    <extranet-device>Boolean</extranet-device>
    <error-level>Integer</error-level>
    <ike-policy-name>String</ike-policy-name>
    <ipsec-policy-name>String</ipsec-policy-name>
    <proxy-id>String</proxy-id>
    <gw-address>String</gw-address>
    <device-ip>String</device-ip>
    <id>Integer</id>
    <ike-id>String</ike-id>
    <ike-gw-name>String</ike-gw-name>
    <is-hub>Boolean</is-hub>
    <tunnel-if-name>String</tunnel-if-name>
    <profile>
      <id>Integer</id>
      <name>String</name>
      <uri>String</uri>
    </profile>
    <device>
      <id>Integer</id>
      <name>String</name>
      <uri>String</uri>
    </device>
    <display-name>String</display-name>
    <warning>String</warning>
```


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```
    <status-level>Integer</status-level>
    <checked>Boolean</checked>
    <uri>String</uri>
    <key>String</key>
  </vpn-end-point-import-bean>
  <remote-vpn-end-point-import-bean>
    <vpn-name-in-device>String</vpn-name-in-device>
    <error-msg>[]</error-msg>
    <remote-end-point>
      <gw-address>String</gw-address>
      <vpn-name-in-device>String</vpn-name-in-device>
      <error-msg>String</error-msg>
      <device-ip>String</device-ip>
      <ike-id-type>None</ike-id-type>
      <ike-id-type>Host Name</ike-id-type>
      <ike-id-type>User At Hostname</ike-id-type>
      <ike-id-type>IP Address</ike-id-type>
      <ike-id-type>DN</ike-id-type>
      <ike-id>String</ike-id>
      <ike-gw-name>String</ike-gw-name>
      <is-hub>Boolean</is-hub>
      <tunnel-if-name>String</tunnel-if-name>
      <error-level>Integer</error-level>
      <display-name>String</display-name>
      <uri>String</uri>
    </remote-end-point>
    <device-name>String</device-name>
    <ike-id-type>None</ike-id-type>
    <ike-id-type>Host Name</ike-id-type>
    <ike-id-type>User At Hostname</ike-id-type>
    <ike-id-type>IP Address</ike-id-type>
    <ike-id-type>DN</ike-id-type>
    <extranet-device>Boolean</extranet-device>
    <error-level>Integer</error-level>
    <ike-policy-name>String</ike-policy-name>
    <ipsec-policy-name>String</ipsec-policy-name>
    <proxy-id>String</proxy-id>
    <gw-address>String</gw-address>
    <device-ip>String</device-ip>
    <id>Integer</id>
    <ike-id>String</ike-id>
    <ike-gw-name>String</ike-gw-name>
    <is-hub>Boolean</is-hub>
    <tunnel-if-name>String</tunnel-if-name>
    <profile>
      <id>Integer</id>
      <name>String</name>
      <uri>String</uri>
    </profile>
    <device>
      <id>Integer</id>
      <name>String</name>
      <uri>String</uri>
    </device>
    <display-name>String</display-name>
    <warning>String</warning>
    <status-level>Integer</status-level>
    <checked>Boolean</checked>
    <uri>String</uri>
    <key>String</key>
  </remote-vpn-end-point-import-bean>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</end-points-of-devices>
```


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Retrieve VPN Import Summary

Fetches a summary of a specific VPN import job.

URI	/api/juniper/sd/vpn-management/vpn-import/vpn-import-summaries?jobId=String
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.sd.vpn-management.vpn-import.vpn-import-summary-response+xml;version=2;q=0.02 application/vnd.sd.vpn-management.vpn-import.vpn-import-summary-response+json;version=2;q=0.02
Access-Control	VPN.read

Sample JSON Output:


```
{
  "vpn-import-summary-response" : {
    "pass-devices" : "Integer",
    "total-vpn-endpoints" : "Integer",
    "failed-devices" : "Integer",
    "failed-vpns" : "Integer",
    "failed-vpn-endpoints" : "Integer",
    "passed-vpns" : "Integer",
    "summary-text" : "String",
    "passed-vpn-endpoints" : "Integer",
    "passed-devices" : "Integer",
    "pass-vpn-endpoints" : "Integer",
    "message" : "String",
    "devices" : {
      "device" : [ "String" ],
      "uri" : "String"
    },
    "total-devices" : "Integer",
    "pass-vpns" : "Integer",
```


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```
    "total-vpns" : "Integer",
    "uri" : "String",
    "link" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<vpn-import-summary-response>
  <pass-devices>Integer</pass-devices>
  <total-vpn-endpoints>Integer</total-vpn-endpoints>
  <failed-devices>Integer</failed-devices>
  <failed-vpns>Integer</failed-vpns>
  <failed-vpn-endpoints>Integer</failed-vpn-endpoints>
  <passed-vpns>Integer</passed-vpns>
  <summary-text>String</summary-text>
  <passed-vpn-endpoints>Integer</passed-vpn-endpoints>
  <passed-devices>Integer</passed-devices>
  <pass-vpn-endpoints>Integer</pass-vpn-endpoints>
  <message>String</message>
  <devices>
    <device>String</device>
    <uri>String</uri>
  </devices>
  <total-devices>Integer</total-devices>
  <pass-vpns>Integer</pass-vpns>
  <total-vpns>Integer</total-vpns>
  <uri>String</uri>
  <link>String</link>
</vpn-import-summary-response>
```

Persist VPN Configuration

Initiates the persistence of imported VPN configurations into the system's database.

URI	/api/juniper/sd/vpn-management/vpn-import/persist-vpn?uiSessionId=String&browserId=String
HTTP method	POST
Content-Type	application/vnd..sd.vpn-management.vpn-import.persist-vpn-request+xml;version=2;charset=UTF-8 application/vnd..sd.vpn-management.vpn-import.persist-vpn-request+json;version=2;charset=UTF-8
Accept-Type	application/vnd.net.juniper.space.job-management.task+xml;version=1;q=0.02 application/vnd.net.juniper.space.job-management.task+json;version=1;q=0.02

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Access-Control	VPN.create

Sample JSON Output:

```
{
  "task" : {
    "id" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<task>
   <id>String</id>
</task>
```

Validate VPN Import UI Selection

Validates the user's selection of VPNs and associated data for import.

URI	/api/juniper/sd/vpn-management/vpn-import/validate-selection-request?uiSessionId=String&browserId=String
HTTP method	POST
Content-Type	application/vnd.sd.vpn-management.vpn-import.validate-selection-request+xml;version=2;charset=UTF-8 application/vnd.sd.vpn-management.vpn-import.validate-selection-request+json;version=2;charset=UTF-8
Accept-Type	application/vnd.sd.vpn-management.vpn-import.validate-selection-response+xml;version=2;q=0.02 application/vnd.sd.vpn-management.vpn-import.validate-selection-response+json;version=2;q=0.02
Access-Control	VPN.update

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Sample JSON Input


```
{
  "validate-selection-request" : {
    "vpn-bean" : {
      "vpn-basic-import-bean" : [ {
        "tunnel-interface-type" : [ "Numbered", "Unnumbered" ],
        "vpn-tunnel-mode-types" : [ "Route Based", "Policy Based" ],
        "multi-proxy-id" : "Boolean",
        "preshared-key-type" : [ "Auto-generate", "Manual", "None" ],
        "name" : "String",
        "topology-type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and
Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP
Client", "Remote VPN Juniper Secure Connect", "None" ],
        "routing-type" : [ "OSPF", "RIP", "Static Routing", "No Routing", "BGP", "Trafic Selector" ],
        "profile" : {
          "id" : "Integer",
          "name" : "String"
        },
        "id" : "String",
        "checked" : "Boolean",
        "error-msg" : "String",
        "error-level" : "Integer"
      } ],
      "totalSize" : "Integer"
    },
    "device-bean" : {
      "vpn-device-import-bean" : [ {
        "gw-address" : "String",
        "device-ip" : "String",
        "id" : "Integer",
        "device-name" : "String",
        "is-hub" : "Boolean",
        "warning" : "String",
        "status-level" : "Integer",
        "error-msg" : "[]",
        "error-level" : "Integer",
        "extranet-device" : "Boolean",
        "checked" : "Boolean",
        "vpn-type" : "String"
      } ],
      "totalSize" : "Integer"
    },
    "tunnel-bean" : {
      "vpn-end-point-import-bean" : [ {
        "vpn-name-in-device" : "String",
        "error-msg" : "[]",
        "remote-end-point" : {
          "gw-address" : "String",
          "vpn-name-in-device" : "String",
          "error-msg" : "String",
          "device-ip" : "String",
          "ike-id-type" : [ "None", "Host Name", "User At Hostname", "IP Address", "DN" ],
          "ike-id" : "String",
          "ike-gw-name" : "String",
          "is-hub" : "Boolean",
          "tunnel-if-name" : "String",
          "error-level" : "Integer",
          "display-name" : "String"
        },
        "device-name" : "String",
        "ike-id-type" : [ "None", "Host Name", "User At Hostname", "IP Address", "DN" ],
        "extranet-device" : "Boolean",
        "error-level" : "Integer",
```


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```
  "ike-policy-name" : "String",
  "ipsec-policy-name" : "String",
  "proxy-id" : "String",
  "gw-address" : "String",
  "device-ip" : "String",
  "id" : "Integer",
  "ike-id" : "String",
  "ike-gw-name" : "String",
  "is-hub" : "Boolean",
  "tunnel-if-name" : "String",
  "profile" : {
    "id" : "Integer",
    "name" : "String"
  },
  "device" : {
    "id" : "Integer",
    "name" : "String"
  },
  "display-name" : "String",
  "warning" : "String",
  "status-level" : "Integer",
  "checked" : "Boolean",
  "key" : "String"
} ],
"remote-vpn-end-point-import-bean" : [ {
  "vpn-name-in-device" : "String",
  "error-msg" : "[]",
  "remote-end-point" : {
    "gw-address" : "String",
    "vpn-name-in-device" : "String",
    "error-msg" : "String",
    "device-ip" : "String",
    "ike-id-type" : [ "None", "Host Name", "User At Hostname", "IP Address", "DN" ],
    "ike-id" : "String",
    "ike-gw-name" : "String",
    "is-hub" : "Boolean",
    "tunnel-if-name" : "String",
    "error-level" : "Integer",
    "display-name" : "String"
  },
  "device-name" : "String",
  "ike-id-type" : [ "None", "Host Name", "User At Hostname", "IP Address", "DN" ],
  "extranet-device" : "Boolean",
  "error-level" : "Integer",
  "ike-policy-name" : "String",
  "ipsec-policy-name" : "String",
  "proxy-id" : "String",
  "gw-address" : "String",
  "device-ip" : "String",
  "id" : "Integer",
  "ike-id" : "String",
  "ike-gw-name" : "String",
  "is-hub" : "Boolean",
  "tunnel-if-name" : "String",
  "profile" : {
    "id" : "Integer",
    "name" : "String"
  },
  "device" : {
    "id" : "Integer",
    "name" : "String"
  },
  "display-name" : "String",
  "warning" : "String",
```


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```
      "status-level" : "Integer",
      "checked" : "Boolean",
      "key" : "String"
    } ],
    "totalSize" : "Integer"
  }
 }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<validate-selection-request>
  <vpn-bean>
    <vpn-basic-import-bean>
      <tunnel-interface-type>Numbered</tunnel-interface-type>
      <tunnel-interface-type>Unnumbered</tunnel-interface-type>
      <vpn-tunnel-mode-types>Route Based</vpn-tunnel-mode-types>
      <vpn-tunnel-mode-types>Policy Based</vpn-tunnel-mode-types>
      <multi-proxy-id>Boolean</multi-proxy-id>
      <preshared-key-type>Auto-generate</preshared-key-type>
      <preshared-key-type>Manual</preshared-key-type>
      <preshared-key-type>None</preshared-key-type>
      <name>String</name>
      <topology-type>Hub and Spoke(Establishment All Peers)</topology-type>
      <topology-type>Full Mesh</topology-type>
      <topology-type>Site to Site</topology-type>
      <topology-type>Hub and Spoke(Establishment by Spokes)</topology-type>
      <topology-type>Hub and Spoke(ADVPN - Auto Discovery VPN)</topology-type>
      <topology-type>Remote VPN NCP Client</topology-type>
      <topology-type>Remote VPN Juniper Secure Connect</topology-type>
      <topology-type>None</topology-type>
      <routing-type>OSPF</routing-type>
      <routing-type>RIP</routing-type>
      <routing-type>Static Routing</routing-type>
      <routing-type>No Routing</routing-type>
      <routing-type>BGP</routing-type>
      <routing-type>Trafic Selector</routing-type>
      <profile>
        <id>Integer</id>
        <name>String</name>
      </profile>
      <id>String</id>
      <checked>Boolean</checked>
      <error-msg>String</error-msg>
      <error-level>Integer</error-level>
    </vpn-basic-import-bean>
    <totalSize>Integer</totalSize>
  </vpn-bean>
  <device-bean>
    <vpn-device-import-bean>
      <gw-address>String</gw-address>
      <device-ip>String</device-ip>
      <id>Integer</id>
      <device-name>String</device-name>
      <is-hub>Boolean</is-hub>
      <warning>String</warning>
      <status-level>Integer</status-level>
      <error-msg>[]</error-msg>
      <error-level>Integer</error-level>
      <extranet-device>Boolean</extranet-device>
      <checked>Boolean</checked>
      <vpn-type>String</vpn-type>
    </vpn-device-import-bean>
```


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```
  <totalSize>Integer</totalSize>
</device-bean>
<tunnel-bean>
  <vpn-end-point-import-bean>
    <vpn-name-in-device>String</vpn-name-in-device>
    <error-msg>[]</error-msg>
    <remote-end-point>
      <gw-address>String</gw-address>
      <vpn-name-in-device>String</vpn-name-in-device>
      <error-msg>String</error-msg>
      <device-ip>String</device-ip>
      <ike-id-type>None</ike-id-type>
      <ike-id-type>Host Name</ike-id-type>
      <ike-id-type>User At Hostname</ike-id-type>
      <ike-id-type>IP Address</ike-id-type>
      <ike-id-type>DN</ike-id-type>
      <ike-id>String</ike-id>
      <ike-gw-name>String</ike-gw-name>
      <is-hub>Boolean</is-hub>
      <tunnel-if-name>String</tunnel-if-name>
      <error-level>Integer</error-level>
      <display-name>String</display-name>
    </remote-end-point>
    <device-name>String</device-name>
    <ike-id-type>None</ike-id-type>
    <ike-id-type>Host Name</ike-id-type>
    <ike-id-type>User At Hostname</ike-id-type>
    <ike-id-type>IP Address</ike-id-type>
    <ike-id-type>DN</ike-id-type>
    <extranet-device>Boolean</extranet-device>
    <error-level>Integer</error-level>
    <ike-policy-name>String</ike-policy-name>
    <ipsec-policy-name>String</ipsec-policy-name>
    <proxy-id>String</proxy-id>
    <gw-address>String</gw-address>
    <device-ip>String</device-ip>
    <id>Integer</id>
    <ike-id>String</ike-id>
    <ike-gw-name>String</ike-gw-name>
    <is-hub>Boolean</is-hub>
    <tunnel-if-name>String</tunnel-if-name>
    <profile>
      <id>Integer</id>
      <name>String</name>
    </profile>
    <device>
      <id>Integer</id>
      <name>String</name>
    </device>
    <display-name>String</display-name>
    <warning>String</warning>
    <status-level>Integer</status-level>
    <checked>Boolean</checked>
    <key>String</key>
  </vpn-end-point-import-bean>
  <remote-vpn-end-point-import-bean>
    <vpn-name-in-device>String</vpn-name-in-device>
    <error-msg>[]</error-msg>
    <remote-end-point>
      <gw-address>String</gw-address>
      <vpn-name-in-device>String</vpn-name-in-device>
      <error-msg>String</error-msg>
      <device-ip>String</device-ip>
      <ike-id-type>None</ike-id-type>
```


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```
        <ike-id-type>Host Name</ike-id-type>
        <ike-id-type>User At Hostname</ike-id-type>
        <ike-id-type>IP Address</ike-id-type>
        <ike-id-type>DN</ike-id-type>
        <ike-id>String</ike-id>
        <ike-gw-name>String</ike-gw-name>
        <is-hub>Boolean</is-hub>
        <tunnel-if-name>String</tunnel-if-name>
        <error-level>Integer</error-level>
        <display-name>String</display-name>
      </remote-end-point>
      <device-name>String</device-name>
      <ike-id-type>None</ike-id-type>
      <ike-id-type>Host Name</ike-id-type>
      <ike-id-type>User At Hostname</ike-id-type>
      <ike-id-type>IP Address</ike-id-type>
      <ike-id-type>DN</ike-id-type>
      <extranet-device>Boolean</extranet-device>
      <error-level>Integer</error-level>
      <ike-policy-name>String</ike-policy-name>
      <ipsec-policy-name>String</ipsec-policy-name>
      <proxy-id>String</proxy-id>
      <gw-address>String</gw-address>
      <device-ip>String</device-ip>
      <id>Integer</id>
      <ike-id>String</ike-id>
      <ike-gw-name>String</ike-gw-name>
      <is-hub>Boolean</is-hub>
      <tunnel-if-name>String</tunnel-if-name>
      <profile>
        <id>Integer</id>
        <name>String</name>
      </profile>
      <device>
        <id>Integer</id>
        <name>String</name>
      </device>
      <display-name>String</display-name>
      <warning>String</warning>
      <status-level>Integer</status-level>
      <checked>Boolean</checked>
      <key>String</key>
    </remote-vpn-end-point-import-bean>
    <totalSize>Integer</totalSize>
  </tunnel-bean>
</validate-selection-request>
```

Sample JSON Output:

```
{
  "validate-selection-response" : {
    "value" : "String"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<validate-selection-response>
   <value>String</value>
</validate-selection-response>
```


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CHAPTER 47

VPN Profile Management RESTful Web Services

The following opertions can be performed using Secuirty Director VPN Profile Management RESTful Web Services

Modify VPN Profile

This request is used to modify the VPN profile.

URI	/api/juniper/sd/vpn-management/vpn-profiles/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.vpn-management.vpn-profile+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.vpn-management.vpn-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.vpn-management.vpn-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.vpn-profile+json;version=1;q=0.01
Access-Control	VPNProfile.update

Sample JSON Input


```
{
  "vpn-profile" : {
    "name" : "String",
    "phase2-setting" : {
      "phase2-proposal-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "phase2-predefined-proposal-set" : [ "Basic", "Standard", "Compatible", "SuiteB-GCM-128", "SuiteB-GCM-256", "Prime-128", "Prime-256" ],
      "custom-phase2-proposals" : {
        "phase2-proposal" : [ {
          "name" : "String",
          "protocol" : [ "ESP", "AH" ],
          "authentication-algorithm" : [ "MD5", "SHA1", "SHA-256", "SHA-384", "SHA-256(128)", "SHA-256(96)", "NONE" ],
          "dh-group" : [ "None", "Group1", "Group2", "Group5", "Group14", "Group19", "Group20",
```


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```
"Group24" ],
        "encryption-algorithm" : [ "DES", "3DES", "AES(128)", "AES(192)", "AES(256)", "AES-GCM(128)",
"AES-GCM(192)", "AES-GCM(256)", "None" ],
        "lifetime" : "Long",
        "life-size" : "Long",
        "moid" : "String",
        "edit-version" : "Integer",
        "version" : "int",
        "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "id" : "int"
      } ]
    },
    "idle-time" : "Long",
    "install-time" : "Integer",
    "dfbit" : [ "None", "Clear", "Set", "Copy" ],
    "establishTunnel" : [ "Immediate", "On Traffic" ],
    "enable-anti-replay" : "Boolean",
    "enable-copy-outer-dscp" : "Boolean",
    "enable-vpn-monitor" : "Boolean",
    "enable-vpn-optimized" : "Boolean",
    "establish-tunnel-immediately" : "Boolean",
    "pfs" : [ "None", "Group1", "Group2", "Group5", "Group14", "Group19", "Group20", "Group24" ]
   },
   "phase1-setting" : {
    "mode" : [ "Main", "Aggressive", "Default" ],
    "ike-id" : [ "None", "Host Name", "User At Hostname", "IP Address", "DN" ],
    "general-ikeid" : "Boolean",
    "ike-version" : [ "Default", "v1", "v2" ],
    "ike-reauthentication" : "Integer",
    "ike-fragment-enabled" : "boolean",
    "ike-fragment-size" : "Integer",
    "auth-method" : [ "Preshared Key", "RSA Signature", "DSA Signature", "EC-DSA-Signature (256)", "EC-
DSA-Signature (384)", "EC-DSA-Signature (521)" ],
    "phase1-proposal-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "phase1-predefined-proposal-set" : [ "Basic", "Standard", "Compatible", "SuiteB-GCM-128", "SuiteB-
GCM-256", "Prime-128", "Prime-256" ],
    "custom-phase1-proposals" : {
     "phase1-proposal" : [ {
      "name" : "String",
      "dh-group" : [ "None", "Group1", "Group2", "Group5", "Group14", "Group19", "Group20", "Group24" ],
      "authentication-algorithm" : [ "MD5", "SHA1", "SHA-256", "SHA-384", "SHA-256(128)", "SHA-
256(96)", "NONE" ],
      "encryption-algorithm" : [ "DES", "3DES", "AES(128)", "AES(192)", "AES(256)", "AES-GCM(128)",
"AES-GCM(192)", "AES-GCM(256)", "None" ],
      "lifetime" : "Long",
      "moid" : "String",
      "edit-version" : "Integer",
      "version" : "int",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "id" : "int"
     } ]
    },
    "enable-nat-traversal" : "Boolean",
    "nat-traversal-keep-alive" : "Integer",
    "enable-dpd" : "Boolean",
    "always-send-dpd" : "Boolean",
    "dpd-interval" : "Integer",
    "dpd-threshold" : "Integer",
    "dpd-mode" : [ "always send", "optimized", "probe idle tunnel" ],
    "username" : "String",
    "ike-connection-limit" : "Long"
   },
   "edit-version" : "Integer",
```


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```
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "description" : "String",
    "id" : "Integer",
    "type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and
Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP
Client", "Remote VPN Juniper Secure Connect", "None" ]
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<vpn-profile>
  <name>String</name>
  <phase2-setting>
    <phase2-proposal-type>Hidden</phase2-proposal-type>
    <phase2-proposal-type>Predefined</phase2-proposal-type>
    <phase2-proposal-type>Custom</phase2-proposal-type>
    <phase2-proposal-type>All</phase2-proposal-type>
    <phase2-predefined-proposal-set>Basic</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Standard</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Compatible</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>SuiteB-GCM-128</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>SuiteB-GCM-256</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Prime-128</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Prime-256</phase2-predefined-proposal-set>
    <custom-phase2-proposals>
      <phase2-proposal>
        <name>String</name>
        <protocol>ESP</protocol>
        <protocol>AH</protocol>
        <authentication-algorithm>MD5</authentication-algorithm>
        <authentication-algorithm>SHA1</authentication-algorithm>
        <authentication-algorithm>SHA-256</authentication-algorithm>
        <authentication-algorithm>SHA-384</authentication-algorithm>
        <authentication-algorithm>SHA-256(128)</authentication-algorithm>
        <authentication-algorithm>SHA-256(96)</authentication-algorithm>
        <authentication-algorithm>NONE</authentication-algorithm>
        <dh-group>None</dh-group>
        <dh-group>Group1</dh-group>
        <dh-group>Group2</dh-group>
        <dh-group>Group5</dh-group>
        <dh-group>Group14</dh-group>
        <dh-group>Group19</dh-group>
        <dh-group>Group20</dh-group>
        <dh-group>Group24</dh-group>
        <encryption-algorithm>DES</encryption-algorithm>
        <encryption-algorithm>3DES</encryption-algorithm>
        <encryption-algorithm>AES(128)</encryption-algorithm>
        <encryption-algorithm>AES(192)</encryption-algorithm>
        <encryption-algorithm>AES(256)</encryption-algorithm>
        <encryption-algorithm>AES-GCM(128)</encryption-algorithm>
        <encryption-algorithm>AES-GCM(192)</encryption-algorithm>
        <encryption-algorithm>AES-GCM(256)</encryption-algorithm>
        <encryption-algorithm>None</encryption-algorithm>
        <lifetime>Long</lifetime>
        <life-size>Long</life-size>
        <moid>String</moid>
        <edit-version>Integer</edit-version>
        <version>int</version>
        <definition-type>Hidden</definition-type>
        <definition-type>Predefined</definition-type>
        <definition-type>Custom</definition-type>
        <definition-type>All</definition-type>
```


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```
        <id>int</id>
      </phase2-proposal>
    </custom-phase2-proposals>
    <idle-time>Long</idle-time>
    <install-time>Integer</install-time>
    <dfbit>None</dfbit>
    <dfbit>Clear</dfbit>
    <dfbit>Set</dfbit>
    <dfbit>Copy</dfbit>
    <establishTunnel>Immediate</establishTunnel>
    <establishTunnel>On Traffic</establishTunnel>
    <enable-anti-replay>Boolean</enable-anti-replay>
    <enable-copy-outer-dscp>Boolean</enable-copy-outer-dscp>
    <enable-vpn-monitor>Boolean</enable-vpn-monitor>
    <enable-vpn-optimized>Boolean</enable-vpn-optimized>
    <establish-tunnel-immediately>Boolean</establish-tunnel-immediately>
    <pfs>None</pfs>
    <pfs>Group1</pfs>
    <pfs>Group2</pfs>
    <pfs>Group5</pfs>
    <pfs>Group14</pfs>
    <pfs>Group19</pfs>
    <pfs>Group20</pfs>
    <pfs>Group24</pfs>
  </phase2-setting>
  <phase1-setting>
    <mode>Main</mode>
    <mode>Aggressive</mode>
    <mode>Default</mode>
    <ike-id>None</ike-id>
    <ike-id>Host Name</ike-id>
    <ike-id>User At Hostname</ike-id>
    <ike-id>IP Address</ike-id>
    <ike-id>DN</ike-id>
    <general-ikeid>Boolean</general-ikeid>
    <ike-version>Default</ike-version>
    <ike-version>v1</ike-version>
    <ike-version>v2</ike-version>
    <ike-reauthentication>Integer</ike-reauthentication>
    <ike-fragment-enabled>boolean</ike-fragment-enabled>
    <ike-fragment-size>Integer</ike-fragment-size>
    <auth-method>Preshared Key</auth-method>
    <auth-method>RSA Signature</auth-method>
    <auth-method>DSA Signature</auth-method>
    <auth-method>EC-DSA-Signature (256)</auth-method>
    <auth-method>EC-DSA-Signature (384)</auth-method>
    <auth-method>EC-DSA-Signature (521)</auth-method>
    <phase1-proposal-type>Hidden</phase1-proposal-type>
    <phase1-proposal-type>Predefined</phase1-proposal-type>
    <phase1-proposal-type>Custom</phase1-proposal-type>
    <phase1-proposal-type>All</phase1-proposal-type>
    <phase1-predefined-proposal-set>Basic</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Standard</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Compatible</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>SuiteB-GCM-128</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>SuiteB-GCM-256</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Prime-128</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Prime-256</phase1-predefined-proposal-set>
    <custom-phase1-proposals>
      <phase1-proposal>
        <name>String</name>
        <dh-group>None</dh-group>
        <dh-group>Group1</dh-group>
        <dh-group>Group2</dh-group>
```


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```
            <dh-group>Group5</dh-group>
            <dh-group>Group14</dh-group>
            <dh-group>Group19</dh-group>
            <dh-group>Group20</dh-group>
            <dh-group>Group24</dh-group>
            <authentication-algorithm>MD5</authentication-algorithm>
            <authentication-algorithm>SHA1</authentication-algorithm>
            <authentication-algorithm>SHA-256</authentication-algorithm>
            <authentication-algorithm>SHA-384</authentication-algorithm>
            <authentication-algorithm>SHA-256(128)</authentication-algorithm>
            <authentication-algorithm>SHA-256(96)</authentication-algorithm>
            <authentication-algorithm>NONE</authentication-algorithm>
            <encryption-algorithm>DES</encryption-algorithm>
            <encryption-algorithm>3DES</encryption-algorithm>
            <encryption-algorithm>AES(128)</encryption-algorithm>
            <encryption-algorithm>AES(192)</encryption-algorithm>
            <encryption-algorithm>AES(256)</encryption-algorithm>
            <encryption-algorithm>AES-GCM(128)</encryption-algorithm>
            <encryption-algorithm>AES-GCM(192)</encryption-algorithm>
            <encryption-algorithm>AES-GCM(256)</encryption-algorithm>
            <encryption-algorithm>None</encryption-algorithm>
            <lifetime>Long</lifetime>
            <moid>String</moid>
            <edit-version>Integer</edit-version>
            <version>int</version>
            <definition-type>Hidden</definition-type>
            <definition-type>Predefined</definition-type>
            <definition-type>Custom</definition-type>
            <definition-type>All</definition-type>
            <id>int</id>
          </phase1-proposal>
        </custom-phase1-proposals>
        <enable-nat-traversal>Boolean</enable-nat-traversal>
        <nat-traversal-keep-alive>Integer</nat-traversal-keep-alive>
        <enable-dpd>Boolean</enable-dpd>
        <always-send-dpd>Boolean</always-send-dpd>
        <dpd-interval>Integer</dpd-interval>
        <dpd-threshold>Integer</dpd-threshold>
        <dpd-mode>always send</dpd-mode>
        <dpd-mode>optimized</dpd-mode>
        <dpd-mode>probe idle tunnel</dpd-mode>
        <username>String</username>
        <ike-connection-limit>Long</ike-connection-limit>
      </phase1-setting>
      <edit-version>Integer</edit-version>
      <definition-type>Hidden</definition-type>
      <definition-type>Predefined</definition-type>
      <definition-type>Custom</definition-type>
      <definition-type>All</definition-type>
      <description>String</description>
      <id>Integer</id>
      <type>Hub and Spoke(Establishment All Peers)</type>
      <type>Full Mesh</type>
      <type>Site to Site</type>
      <type>Hub and Spoke(Establishment by Spokes)</type>
      <type>Hub and Spoke(ADVPN - Auto Discovery VPN)</type>
      <type>Remote VPN NCP Client</type>
      <type>Remote VPN Juniper Secure Connect</type>
      <type>None</type>
    </vpn-profile>
```


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Sample JSON Output:


```
{
  "vpn-profile" : {
    "name" : "String",
    "last-modified-by-user-name" : "String",
    "created-by-user-name" : "String",
    "phase2-setting" : {
      "phase2-proposal-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "phase2-predefined-proposal-set" : [ "Basic", "Standard", "Compatible", "SuiteB-GCM-128", "SuiteB-
GCM-256", "Prime-128", "Prime-256" ],
      "custom-phase2-proposals" : {
        "phase2-proposal" : [ {
          "name" : "String",
          "protocol" : [ "ESP", "AH" ],
          "authentication-algorithm" : [ "MD5", "SHA1", "SHA-256", "SHA-384", "SHA-256(128)", "SHA-
256(96)", "NONE" ],
          "dh-group" : [ "None", "Group1", "Group2", "Group5", "Group14", "Group19", "Group20", "Group24" ],
          "encryption-algorithm" : [ "DES", "3DES", "AES(128)", "AES(192)", "AES(256)", "AES-GCM(128)",
"AES-GCM(192)", "AES-GCM(256)", "None" ],
          "lifetime" : "Long",
          "life-size" : "Long",
          "moid" : "String",
          "global" : "String",
          "edit-version" : "Integer",
          "version" : "int",
          "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
          "created-by-user-name" : "String",
          "last-modified-by-user-name" : "String",
          "domain-id" : "int",
          "id" : "int",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "idle-time" : "Long",
      "install-time" : "Integer",
      "dfbit" : [ "None", "Clear", "Set", "Copy" ],
      "establishTunnel" : [ "Immediate", "On Traffic" ],
      "enable-anti-replay" : "Boolean",
      "enable-copy-outer-dscp" : "Boolean",
      "enable-vpn-monitor" : "Boolean",
      "enable-vpn-optimized" : "Boolean",
      "establish-tunnel-immediately" : "Boolean",
      "pfs" : [ "None", "Group1", "Group2", "Group5", "Group14", "Group19", "Group20", "Group24" ],
      "uri" : "String"
    },
    "phase1-setting" : {
      "mode" : [ "Main", "Aggressive", "Default" ],
      "ike-id" : [ "None", "Host Name", "User At Hostname", "IP Address", "DN" ],
      "general-ikeid" : "Boolean",
      "ike-version" : [ "Default", "v1", "v2" ],
      "ike-reauthentication" : "Integer",
      "ike-fragment-enabled" : "boolean",
      "ike-fragment-size" : "Integer",
      "auth-method" : [ "Preshared Key", "RSA Signature", "DSA Signature", "EC-DSA-Signature (256)", "EC-
DSA-Signature (384)", "EC-DSA-Signature (521)" ],
      "phase1-proposal-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "phase1-predefined-proposal-set" : [ "Basic", "Standard", "Compatible", "SuiteB-GCM-128", "SuiteB-
GCM-256", "Prime-128", "Prime-256" ],
      "custom-phase1-proposals" : {
        "phase1-proposal" : [ {
```


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```
        "name" : "String",
        "dh-group" : [ "None", "Group1", "Group2", "Group5", "Group14", "Group19", "Group20", "Group24" ],
        "authentication-algorithm" : [ "MD5", "SHA1", "SHA-256", "SHA-384", "SHA-256(128)", "SHA-
256(96)", "NONE" ],
        "encryption-algorithm" : [ "DES", "3DES", "AES(128)", "AES(192)", "AES(256)", "AES-GCM(128)",
"AES-GCM(192)", "AES-GCM(256)", "None" ],
        "lifetime" : "Long",
        "moid" : "String",
        "global" : "String",
        "edit-version" : "Integer",
        "version" : "int",
        "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "created-by-user-name" : "String",
        "last-modified-by-user-name" : "String",
        "domain-id" : "int",
        "id" : "int",
        "uri" : "String"
       } ],
       "uri" : "String"
     },
     "enable-nat-traversal" : "Boolean",
     "nat-traversal-keep-alive" : "Integer",
     "enable-dpd" : "Boolean",
     "always-send-dpd" : "Boolean",
     "dpd-interval" : "Integer",
     "dpd-threshold" : "Integer",
     "dpd-mode" : [ "always send", "optimized", "probe idle tunnel" ],
     "username" : "String",
     "uri" : "String",
     "ike-connection-limit" : "Long"
   },
   "edit-version" : "Integer",
   "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
   "description" : "String",
   "domain-id" : "Integer",
   "id" : "Integer",
   "uri" : "String",
   "link" : "String",
   "domain-name" : "String",
   "type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and
Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP
Client", "Remote VPN Juniper Secure Connect", "None" ]
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<vpn-profile>
  <name>String</name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-by-user-name>String</created-by-user-name>
  <phase2-setting>
    <phase2-proposal-type>Hidden</phase2-proposal-type>
    <phase2-proposal-type>Predefined</phase2-proposal-type>
    <phase2-proposal-type>Custom</phase2-proposal-type>
    <phase2-proposal-type>All</phase2-proposal-type>
    <phase2-predefined-proposal-set>Basic</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Standard</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Compatible</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>SuiteB-GCM-128</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>SuiteB-GCM-256</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Prime-128</phase2-predefined-proposal-set>
```


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```
<phase2-predefined-proposal-set>Prime-256</phase2-predefined-proposal-set>
<custom-phase2-proposals>
  <phase2-proposal>
    <name>String</name>
    <protocol>ESP</protocol>
    <protocol>AH</protocol>
    <authentication-algorithm>MD5</authentication-algorithm>
    <authentication-algorithm>SHA1</authentication-algorithm>
    <authentication-algorithm>SHA-256</authentication-algorithm>
    <authentication-algorithm>SHA-384</authentication-algorithm>
    <authentication-algorithm>SHA-256(128)</authentication-algorithm>
    <authentication-algorithm>SHA-256(96)</authentication-algorithm>
    <authentication-algorithm>NONE</authentication-algorithm>
    <dh-group>None</dh-group>
    <dh-group>Group1</dh-group>
    <dh-group>Group2</dh-group>
    <dh-group>Group5</dh-group>
    <dh-group>Group14</dh-group>
    <dh-group>Group19</dh-group>
    <dh-group>Group20</dh-group>
    <dh-group>Group24</dh-group>
    <encryption-algorithm>DES</encryption-algorithm>
    <encryption-algorithm>3DES</encryption-algorithm>
    <encryption-algorithm>AES(128)</encryption-algorithm>
    <encryption-algorithm>AES(192)</encryption-algorithm>
    <encryption-algorithm>AES(256)</encryption-algorithm>
    <encryption-algorithm>AES-GCM(128)</encryption-algorithm>
    <encryption-algorithm>AES-GCM(192)</encryption-algorithm>
    <encryption-algorithm>AES-GCM(256)</encryption-algorithm>
    <encryption-algorithm>None</encryption-algorithm>
    <lifetime>Long</lifetime>
    <life-size>Long</life-size>
    <moid>String</moid>
    <global>String</global>
    <edit-version>Integer</edit-version>
    <version>int</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-id>int</domain-id>
    <id>int</id>
    <uri>String</uri>
  </phase2-proposal>
  <uri>String</uri>
</custom-phase2-proposals>
<idle-time>Long</idle-time>
<install-time>Integer</install-time>
<dfbit>None</dfbit>
<dfbit>Clear</dfbit>
<dfbit>Set</dfbit>
<dfbit>Copy</dfbit>
<establishTunnel>Immediate</establishTunnel>
<establishTunnel>On Traffic</establishTunnel>
<enable-anti-replay>Boolean</enable-anti-replay>
<enable-copy-outer-dscp>Boolean</enable-copy-outer-dscp>
<enable-vpn-monitor>Boolean</enable-vpn-monitor>
<enable-vpn-optimized>Boolean</enable-vpn-optimized>
<establish-tunnel-immediately>Boolean</establish-tunnel-immediately>
<pfs>None</pfs>
<pfs>Group1</pfs>
<pfs>Group2</pfs>
```


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```
    <pfs>Group5</pfs>
    <pfs>Group14</pfs>
    <pfs>Group19</pfs>
    <pfs>Group20</pfs>
    <pfs>Group24</pfs>
    <uri>String</uri>
  </phase2-setting>
  <phase1-setting>
    <mode>Main</mode>
    <mode>Aggressive</mode>
    <mode>Default</mode>
    <ike-id>None</ike-id>
    <ike-id>Host Name</ike-id>
    <ike-id>User At Hostname</ike-id>
    <ike-id>IP Address</ike-id>
    <ike-id>DN</ike-id>
    <general-ikeid>Boolean</general-ikeid>
    <ike-version>Default</ike-version>
    <ike-version>v1</ike-version>
    <ike-version>v2</ike-version>
    <ike-reauthentication>Integer</ike-reauthentication>
    <ike-fragment-enabled>boolean</ike-fragment-enabled>
    <ike-fragment-size>Integer</ike-fragment-size>
    <auth-method>Preshared Key</auth-method>
    <auth-method>RSA Signature</auth-method>
    <auth-method>DSA Signature</auth-method>
    <auth-method>EC-DSA-Signature (256)</auth-method>
    <auth-method>EC-DSA-Signature (384)</auth-method>
    <auth-method>EC-DSA-Signature (521)</auth-method>
    <phase1-proposal-type>Hidden</phase1-proposal-type>
    <phase1-proposal-type>Predefined</phase1-proposal-type>
    <phase1-proposal-type>Custom</phase1-proposal-type>
    <phase1-proposal-type>All</phase1-proposal-type>
    <phase1-predefined-proposal-set>Basic</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Standard</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Compatible</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>SuiteB-GCM-128</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>SuiteB-GCM-256</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Prime-128</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Prime-256</phase1-predefined-proposal-set>
    <custom-phase1-proposals>
      <phase1-proposal>
        <name>String</name>
        <dh-group>None</dh-group>
        <dh-group>Group1</dh-group>
        <dh-group>Group2</dh-group>
        <dh-group>Group5</dh-group>
        <dh-group>Group14</dh-group>
        <dh-group>Group19</dh-group>
        <dh-group>Group20</dh-group>
        <dh-group>Group24</dh-group>
        <authentication-algorithm>MD5</authentication-algorithm>
        <authentication-algorithm>SHA1</authentication-algorithm>
        <authentication-algorithm>SHA-256</authentication-algorithm>
        <authentication-algorithm>SHA-384</authentication-algorithm>
        <authentication-algorithm>SHA-256(128)</authentication-algorithm>
        <authentication-algorithm>SHA-256(96)</authentication-algorithm>
        <authentication-algorithm>NONE</authentication-algorithm>
        <encryption-algorithm>DES</encryption-algorithm>
        <encryption-algorithm>3DES</encryption-algorithm>
        <encryption-algorithm>AES(128)</encryption-algorithm>
        <encryption-algorithm>AES(192)</encryption-algorithm>
        <encryption-algorithm>AES(256)</encryption-algorithm>
        <encryption-algorithm>AES-GCM(128)</encryption-algorithm>
```


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```
            <encryption-algorithm>AES-GCM(192)</encryption-algorithm>
            <encryption-algorithm>AES-GCM(256)</encryption-algorithm>
            <encryption-algorithm>None</encryption-algorithm>
            <lifetime>Long</lifetime>
            <moid>String</moid>
            <global>String</global>
            <edit-version>Integer</edit-version>
            <version>int</version>
            <definition-type>Hidden</definition-type>
            <definition-type>Predefined</definition-type>
            <definition-type>Custom</definition-type>
            <definition-type>All</definition-type>
            <created-by-user-name>String</created-by-user-name>
            <last-modified-by-user-name>String</last-modified-by-user-name>
            <domain-id>int</domain-id>
            <id>int</id>
            <uri>String</uri>
          </phase1-proposal>
          <uri>String</uri>
        </custom-phase1-proposals>
        <enable-nat-traversal>Boolean</enable-nat-traversal>
        <nat-traversal-keep-alive>Integer</nat-traversal-keep-alive>
        <enable-dpd>Boolean</enable-dpd>
        <always-send-dpd>Boolean</always-send-dpd>
        <dpd-interval>Integer</dpd-interval>
        <dpd-threshold>Integer</dpd-threshold>
        <dpd-mode>always send</dpd-mode>
        <dpd-mode>optimized</dpd-mode>
        <dpd-mode>probe idle tunnel</dpd-mode>
        <username>String</username>
        <uri>String</uri>
        <ike-connection-limit>Long</ike-connection-limit>
      </phase1-setting>
      <edit-version>Integer</edit-version>
      <definition-type>Hidden</definition-type>
      <definition-type>Predefined</definition-type>
      <definition-type>Custom</definition-type>
      <definition-type>All</definition-type>
      <description>String</description>
      <domain-id>Integer</domain-id>
      <id>Integer</id>
      <uri>String</uri>
      <link>String</link>
      <domain-name>String</domain-name>
      <type>Hub and Spoke(Establishment All Peers)</type>
      <type>Full Mesh</type>
      <type>Site to Site</type>
      <type>Hub and Spoke(Establishment by Spokes)</type>
      <type>Hub and Spoke(ADVPN - Auto Discovery VPN)</type>
      <type>Remote VPN NCP Client</type>
      <type>Remote VPN Juniper Secure Connect</type>
      <type>None</type>
    </vpn-profile>
```

Get VPN Profile by ID

This request is used to get a VPN profile by its ID.

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URI	/api/juniper/sd/vpn-management/vpn-profiles/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.vpn-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.vpn-profile+json;version=1;q=0.01
Access-Control	VPNProfile.read

Sample JSON Output:


```
{
  "vpn-profile" : {
    "name" : "String",
    "last-modified-by-user-name" : "String",
    "created-by-user-name" : "String",
    "phase2-setting" : {
      "phase2-proposal-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "phase2-predefined-proposal-set" : [ "Basic", "Standard", "Compatible", "SuiteB-GCM-128", "SuiteB-
GCM-256", "Prime-128", "Prime-256" ],
      "custom-phase2-proposals" : {
        "phase2-proposal" : [ {
          "name" : "String",
          "protocol" : [ "ESP", "AH" ],
          "authentication-algorithm" : [ "MD5", "SHA1", "SHA-256", "SHA-384", "SHA-256(128)", "SHA-
256(96)", "NONE" ],
          "dh-group" : [ "None", "Group1", "Group2", "Group5", "Group14", "Group19", "Group20", "Group24" ],
          "encryption-algorithm" : [ "DES", "3DES", "AES(128)", "AES(192)", "AES(256)", "AES-GCM(128)",
"AES-GCM(192)", "AES-GCM(256)", "None" ],
          "lifetime" : "Long",
          "life-size" : "Long",
          "moid" : "String",
          "global" : "String",
          "edit-version" : "Integer",
          "version" : "int",
          "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
          "created-by-user-name" : "String",
          "last-modified-by-user-name" : "String",
          "domain-id" : "int",
          "id" : "int",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "idle-time" : "Long",
      "install-time" : "Integer",
      "dfbit" : [ "None", "Clear", "Set", "Copy" ],
      "establishTunnel" : [ "Immediate", "On Traffic" ],
      "enable-anti-replay" : "Boolean",
```


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```
    "enable-copy-outer-dscp" : "Boolean",
    "enable-vpn-monitor" : "Boolean",
    "enable-vpn-optimized" : "Boolean",
    "establish-tunnel-immediately" : "Boolean",
    "pfs" : [ "None", "Group1", "Group2", "Group5", "Group14", "Group19", "Group20", "Group24" ],
    "uri" : "String"
   },
   "phase1-setting" : {
    "mode" : [ "Main", "Aggressive", "Default" ],
    "ike-id" : [ "None", "Host Name", "User At Hostname", "IP Address", "DN" ],
    "general-ikeid" : "Boolean",
    "ike-version" : [ "Default", "v1", "v2" ],
    "ike-reauthentication" : "Integer",
    "ike-fragment-enabled" : "boolean",
    "ike-fragment-size" : "Integer",
    "auth-method" : [ "Preshared Key", "RSA Signature", "DSA Signature", "EC-DSA-Signature (256)", "EC-
DSA-Signature (384)", "EC-DSA-Signature (521)" ],
    "phase1-proposal-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "phase1-predefined-proposal-set" : [ "Basic", "Standard", "Compatible", "SuiteB-GCM-128", "SuiteB-
GCM-256", "Prime-128", "Prime-256" ],
    "custom-phase1-proposals" : {
     "phase1-proposal" : [ {
      "name" : "String",
      "dh-group" : [ "None", "Group1", "Group2", "Group5", "Group14", "Group19", "Group20", "Group24" ],
      "authentication-algorithm" : [ "MD5", "SHA1", "SHA-256", "SHA-384", "SHA-256(128)", "SHA-
256(96)", "NONE" ],
      "encryption-algorithm" : [ "DES", "3DES", "AES(128)", "AES(192)", "AES(256)", "AES-GCM(128)",
"AES-GCM(192)", "AES-GCM(256)", "None" ],
      "lifetime" : "Long",
      "moid" : "String",
      "global" : "String",
      "edit-version" : "Integer",
      "version" : "int",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "created-by-user-name" : "String",
      "last-modified-by-user-name" : "String",
      "domain-id" : "int",
      "id" : "int",
      "uri" : "String"
     } ],
     "uri" : "String"
    },
    "enable-nat-traversal" : "Boolean",
    "nat-traversal-keep-alive" : "Integer",
    "enable-dpd" : "Boolean",
    "always-send-dpd" : "Boolean",
    "dpd-interval" : "Integer",
    "dpd-threshold" : "Integer",
    "dpd-mode" : [ "always send", "optimized", "probe idle tunnel" ],
    "username" : "String",
    "uri" : "String",
    "ike-connection-limit" : "Long"
   },
   "edit-version" : "Integer",
   "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
   "description" : "String",
   "domain-id" : "Integer",
   "id" : "Integer",
   "uri" : "String",
   "link" : "String",
   "domain-name" : "String",
   "type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and Spoke
```


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(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP Client", "Remote VPN Juniper Secure Connect", "None"]
}
}

Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<vpn-profile>
  <name>String</name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-by-user-name>String</created-by-user-name>
  <phase2-setting>
    <phase2-proposal-type>Hidden</phase2-proposal-type>
    <phase2-proposal-type>Predefined</phase2-proposal-type>
    <phase2-proposal-type>Custom</phase2-proposal-type>
    <phase2-proposal-type>All</phase2-proposal-type>
    <phase2-predefined-proposal-set>Basic</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Standard</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Compatible</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>SuiteB-GCM-128</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>SuiteB-GCM-256</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Prime-128</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Prime-256</phase2-predefined-proposal-set>
    <custom-phase2-proposals>
      <phase2-proposal>
        <name>String</name>
        <protocol>ESP</protocol>
        <protocol>AH</protocol>
        <authentication-algorithm>MD5</authentication-algorithm>
        <authentication-algorithm>SHA1</authentication-algorithm>
        <authentication-algorithm>SHA-256</authentication-algorithm>
        <authentication-algorithm>SHA-384</authentication-algorithm>
        <authentication-algorithm>SHA-256(128)</authentication-algorithm>
        <authentication-algorithm>SHA-256(96)</authentication-algorithm>
        <authentication-algorithm>NONE</authentication-algorithm>
        <dh-group>None</dh-group>
        <dh-group>Group1</dh-group>
        <dh-group>Group2</dh-group>
        <dh-group>Group5</dh-group>
        <dh-group>Group14</dh-group>
        <dh-group>Group19</dh-group>
        <dh-group>Group20</dh-group>
        <dh-group>Group24</dh-group>
        <encryption-algorithm>DES</encryption-algorithm>
        <encryption-algorithm>3DES</encryption-algorithm>
        <encryption-algorithm>AES(128)</encryption-algorithm>
        <encryption-algorithm>AES(192)</encryption-algorithm>
        <encryption-algorithm>AES(256)</encryption-algorithm>
        <encryption-algorithm>AES-GCM(128)</encryption-algorithm>
        <encryption-algorithm>AES-GCM(192)</encryption-algorithm>
        <encryption-algorithm>AES-GCM(256)</encryption-algorithm>
        <encryption-algorithm>None</encryption-algorithm>
        <lifetime>Long</lifetime>
        <life-size>Long</life-size>
        <moid>String</moid>
        <global>String</global>
        <edit-version>Integer</edit-version>
        <version>int</version>
        <definition-type>Hidden</definition-type>
```


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```
        <definition-type>Predefined</definition-type>
        <definition-type>Custom</definition-type>
        <definition-type>All</definition-type>
        <created-by-user-name>String</created-by-user-name>
        <last-modified-by-user-name>String</last-modified-by-user-name>
        <domain-id>int</domain-id>
        <id>int</id>
        <uri>String</uri>
      </phase2-proposal>
      <uri>String</uri>
    </custom-phase2-proposals>
    <idle-time>Long</idle-time>
    <install-time>Integer</install-time>
    <dfbit>None</dfbit>
    <dfbit>Clear</dfbit>
    <dfbit>Set</dfbit>
    <dfbit>Copy</dfbit>
    <establishTunnel>Immediate</establishTunnel>
    <establishTunnel>On Traffic</establishTunnel>
    <enable-anti-replay>Boolean</enable-anti-replay>
    <enable-copy-outer-dscp>Boolean</enable-copy-outer-dscp>
    <enable-vpn-monitor>Boolean</enable-vpn-monitor>
    <enable-vpn-optimized>Boolean</enable-vpn-optimized>
    <establish-tunnel-immediately>Boolean</establish-tunnel-immediately>
    <pfs>None</pfs>
    <pfs>Group1</pfs>
    <pfs>Group2</pfs>
    <pfs>Group5</pfs>
    <pfs>Group14</pfs>
    <pfs>Group19</pfs>
    <pfs>Group20</pfs>
    <pfs>Group24</pfs>
    <uri>String</uri>
  </phase2-setting>
  <phase1-setting>
    <mode>Main</mode>
    <mode>Aggressive</mode>
    <mode>Default</mode>
    <ike-id>None</ike-id>
    <ike-id>Host Name</ike-id>
    <ike-id>User At Hostname</ike-id>
    <ike-id>IP Address</ike-id>
    <ike-id>DN</ike-id>
    <general-ikeid>Boolean</general-ikeid>
    <ike-version>Default</ike-version>
    <ike-version>v1</ike-version>
    <ike-version>v2</ike-version>
    <ike-reauthentication>Integer</ike-reauthentication>
    <ike-fragment-enabled>boolean</ike-fragment-enabled>
    <ike-fragment-size>Integer</ike-fragment-size>
    <auth-method>Preshared Key</auth-method>
    <auth-method>RSA Signature</auth-method>
    <auth-method>DSA Signature</auth-method>
    <auth-method>EC-DSA-Signature (256)</auth-method>
    <auth-method>EC-DSA-Signature (384)</auth-method>
    <auth-method>EC-DSA-Signature (521)</auth-method>
    <phase1-proposal-type>Hidden</phase1-proposal-type>
    <phase1-proposal-type>Predefined</phase1-proposal-type>
    <phase1-proposal-type>Custom</phase1-proposal-type>
    <phase1-proposal-type>All</phase1-proposal-type>
    <phase1-predefined-proposal-set>Basic</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Standard</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Compatible</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>SuiteB-GCM-128</phase1-predefined-proposal-set>
```


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```
<phase1-predefined-proposal-set>SuiteB-GCM-256</phase1-predefined-proposal-set>
<phase1-predefined-proposal-set>Prime-128</phase1-predefined-proposal-set>
<phase1-predefined-proposal-set>Prime-256</phase1-predefined-proposal-set>
<custom-phase1-proposals>
  <phase1-proposal>
    <name>String</name>
    <dh-group>None</dh-group>
    <dh-group>Group1</dh-group>
    <dh-group>Group2</dh-group>
    <dh-group>Group5</dh-group>
    <dh-group>Group14</dh-group>
    <dh-group>Group19</dh-group>
    <dh-group>Group20</dh-group>
    <dh-group>Group24</dh-group>
    <authentication-algorithm>MD5</authentication-algorithm>
    <authentication-algorithm>SHA1</authentication-algorithm>
    <authentication-algorithm>SHA-256</authentication-algorithm>
    <authentication-algorithm>SHA-384</authentication-algorithm>
    <authentication-algorithm>SHA-256(128)</authentication-algorithm>
    <authentication-algorithm>SHA-256(96)</authentication-algorithm>
    <authentication-algorithm>NONE</authentication-algorithm>
    <encryption-algorithm>DES</encryption-algorithm>
    <encryption-algorithm>3DES</encryption-algorithm>
    <encryption-algorithm>AES(128)</encryption-algorithm>
    <encryption-algorithm>AES(192)</encryption-algorithm>
    <encryption-algorithm>AES(256)</encryption-algorithm>
    <encryption-algorithm>AES-GCM(128)</encryption-algorithm>
    <encryption-algorithm>AES-GCM(192)</encryption-algorithm>
    <encryption-algorithm>AES-GCM(256)</encryption-algorithm>
    <encryption-algorithm>None</encryption-algorithm>
    <lifetime>Long</lifetime>
    <moid>String</moid>
    <global>String</global>
    <edit-version>Integer</edit-version>
    <version>int</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-id>int</domain-id>
    <id>int</id>
    <uri>String</uri>
  </phase1-proposal>
  <uri>String</uri>
</custom-phase1-proposals>
<enable-nat-traversal>Boolean</enable-nat-traversal>
<nat-traversal-keep-alive>Integer</nat-traversal-keep-alive>
<enable-dpd>Boolean</enable-dpd>
<always-send-dpd>Boolean</always-send-dpd>
<dpd-interval>Integer</dpd-interval>
<dpd-threshold>Integer</dpd-threshold>
<dpd-mode>always send</dpd-mode>
<dpd-mode>optimized</dpd-mode>
<dpd-mode>probe idle tunnel</dpd-mode>
<username>String</username>
<uri>String</uri>
<ike-connection-limit>Long</ike-connection-limit>
</phase1-setting>
<edit-version>Integer</edit-version>
<definition-type>Hidden</definition-type>
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
```


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```
  <definition-type>All</definition-type>
  <description>String</description>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <uri>String</uri>
  <link>String</link>
  <domain-name>String</domain-name>
  <type>Hub and Spoke(Establishment All Peers)</type>
  <type>Full Mesh</type>
  <type>Site to Site</type>
  <type>Hub and Spoke(Establishment by Spokes)</type>
  <type>Hub and Spoke(ADVPN - Auto Discovery VPN)</type>
  <type>Remote VPN NCP Client</type>
  <type>Remote VPN Juniper Secure Connect</type>
  <type>None</type>
</vpn-profile>
```

Get VPN Profiles

This request is used to get all VPN profiles. You can specify parameters list only the Auto VPN or ADVPN supported profiles. Get all VPN profiles support paging, sorting by name, and global filtering.

URI	/api/juniper/sd/vpn-management/vpn-profiles?vpnType=String&isAutoVpn=Boolean&isAdvpn=Boolean
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.vpn-profiles+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.vpn-profiles+json;version=1;q=0.01
Access-Control	VPNProfile.read

Sample JSON Output:

```
{
  "vpn-profiles" : {
    "vpn-profile" : [ {
      "name" : "String",
      "description" : "String",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "mode" : "String",
      "global" : "String",
      "id" : "Integer",
      "uri" : "String",
      "link" : "String",
      "domain-id" : "Integer",
```


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```
      "domain-name" : "String",
      "created-by-user-name" : "String",
      "type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and
Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP
Client", "Remote VPN Juniper Secure Connect", "None" ],
      "vpn-names" : [ "String" ]
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<vpn-profiles>
  <vpn-profile>
    <name>String</name>
    <description>String</description>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <mode>String</mode>
    <global>String</global>
    <id>Integer</id>
    <uri>String</uri>
    <link>String</link>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <created-by-user-name>String</created-by-user-name>
    <type>Hub and Spoke(Establishment All Peers)</type>
    <type>Full Mesh</type>
    <type>Site to Site</type>
    <type>Hub and Spoke(Establishment by Spokes)</type>
    <type>Hub and Spoke(ADVPN - Auto Discovery VPN)</type>
    <type>Remote VPN NCP Client</type>
    <type>Remote VPN Juniper Secure Connect</type>
    <type>None</type>
    <vpn-names>String</vpn-names>
  </vpn-profile>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</vpn-profiles>
```


Delete VPN Profile

This request is used to delete the VPN profile.

URI	/api/juniper/sd/vpn-management/vpn-profiles/{id}
HTTP method	DELETE

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Content-Type	None
Accept-Type	None
Access-Control	VPNProfile.delete

Create VPN Profile

This request is used to create a VPN profile.

URI	/api/juniper/sd/vpn-management/vpn-profiles
HTTP method	POST
Content-Type	application/vnd.juniper.sd.vpn-management.vpn-profile+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.vpn-management.vpn-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.vpn-management.vpn-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.vpn-profile+json;version=1;q=0.01
Access-Control	VPNProfile.create

Sample JSON Input


```
{
  "vpn-profile" : {
    "name" : "String",
    "phase2-setting" : {
      "phase2-proposal-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "phase2-predefined-proposal-set" : [ "Basic", "Standard", "Compatible", "SuiteB-GCM-128", "SuiteB-
GCM-256", "Prime-128", "Prime-256" ],
      "custom-phase2-proposals" : {
        "phase2-proposal" : [ {
          "name" : "String",
          "protocol" : [ "ESP", "AH" ],
          "authentication-algorithm" : [ "MD5", "SHA1", "SHA-256", "SHA-384", "SHA-256(128)", "SHA-
256(96)", "NONE" ],
          "dh-group" : [ "None", "Group1", "Group2", "Group5", "Group14", "Group19", "Group20", "Group24" ],
          "encryption-algorithm" : [ "DES", "3DES", "AES(128)", "AES(192)", "AES(256)", "AES-GCM
```


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```
(128)", "AES-GCM(192)", "AES-GCM(256)", "None" ],
        "lifetime" : "Long",
        "life-size" : "Long",
        "moid" : "String",
        "edit-version" : "Integer",
        "version" : "int",
        "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "id" : "int"
      } ]
    },
    "idle-time" : "Long",
    "install-time" : "Integer",
    "dfbit" : [ "None", "Clear", "Set", "Copy" ],
    "establishTunnel" : [ "Immediate", "On Traffic" ],
    "enable-anti-replay" : "Boolean",
    "enable-copy-outer-dscp" : "Boolean",
    "enable-vpn-monitor" : "Boolean",
    "enable-vpn-optimized" : "Boolean",
    "establish-tunnel-immediately" : "Boolean",
    "pfs" : [ "None", "Group1", "Group2", "Group5", "Group14", "Group19", "Group20", "Group24" ]
  },
  "phase1-setting" : {
    "mode" : [ "Main", "Aggressive", "Default" ],
    "ike-id" : [ "None", "Host Name", "User At Hostname", "IP Address", "DN" ],
    "general-ikeid" : "Boolean",
    "ike-version" : [ "Default", "v1", "v2" ],
    "ike-reauthentication" : "Integer",
    "ike-fragment-enabled" : "boolean",
    "ike-fragment-size" : "Integer",
    "auth-method" : [ "Preshared Key", "RSA Signature", "DSA Signature", "EC-DSA-Signature (256)", "EC-
DSA-Signature (384)", "EC-DSA-Signature (521)" ],
    "phase1-proposal-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "phase1-predefined-proposal-set" : [ "Basic", "Standard", "Compatible", "SuiteB-GCM-128", "SuiteB-
GCM-256", "Prime-128", "Prime-256" ],
    "custom-phase1-proposals" : {
      "phase1-proposal" : [ {
        "name" : "String",
        "dh-group" : [ "None", "Group1", "Group2", "Group5", "Group14", "Group19", "Group20", "Group24" ],
        "authentication-algorithm" : [ "MD5", "SHA1", "SHA-256", "SHA-384", "SHA-256(128)", "SHA-
256(96)", "NONE" ],
        "encryption-algorithm" : [ "DES", "3DES", "AES(128)", "AES(192)", "AES(256)", "AES-GCM(128)",
"AES-GCM(192)", "AES-GCM(256)", "None" ],
        "lifetime" : "Long",
        "moid" : "String",
        "edit-version" : "Integer",
        "version" : "int",
        "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "id" : "int"
      } ]
    },
    "enable-nat-traversal" : "Boolean",
    "nat-traversal-keep-alive" : "Integer",
    "enable-dpd" : "Boolean",
    "always-send-dpd" : "Boolean",
    "dpd-interval" : "Integer",
    "dpd-threshold" : "Integer",
    "dpd-mode" : [ "always send", "optimized", "probe idle tunnel" ],
    "username" : "String",
    "ike-connection-limit" : "Long"
  },
  "edit-version" : "Integer",
  "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "description" : "String",
```


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```
   "id" : "Integer",
   "type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and
Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP
Client", "Remote VPN Juniper Secure Connect", "None" ]
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<vpn-profile>
  <name>String</name>
  <phase2-setting>
    <phase2-proposal-type>Hidden</phase2-proposal-type>
    <phase2-proposal-type>Predefined</phase2-proposal-type>
    <phase2-proposal-type>Custom</phase2-proposal-type>
    <phase2-proposal-type>All</phase2-proposal-type>
    <phase2-predefined-proposal-set>Basic</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Standard</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Compatible</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>SuiteB-GCM-128</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>SuiteB-GCM-256</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Prime-128</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Prime-256</phase2-predefined-proposal-set>
    <custom-phase2-proposals>
      <phase2-proposal>
        <name>String</name>
        <protocol>ESP</protocol>
        <protocol>AH</protocol>
        <authentication-algorithm>MD5</authentication-algorithm>
        <authentication-algorithm>SHA1</authentication-algorithm>
        <authentication-algorithm>SHA-256</authentication-algorithm>
        <authentication-algorithm>SHA-384</authentication-algorithm>
        <authentication-algorithm>SHA-256(128)</authentication-algorithm>
        <authentication-algorithm>SHA-256(96)</authentication-algorithm>
        <authentication-algorithm>NONE</authentication-algorithm>
        <dh-group>None</dh-group>
        <dh-group>Group1</dh-group>
        <dh-group>Group2</dh-group>
        <dh-group>Group5</dh-group>
        <dh-group>Group14</dh-group>
        <dh-group>Group19</dh-group>
        <dh-group>Group20</dh-group>
        <dh-group>Group24</dh-group>
        <encryption-algorithm>DES</encryption-algorithm>
        <encryption-algorithm>3DES</encryption-algorithm>
        <encryption-algorithm>AES(128)</encryption-algorithm>
        <encryption-algorithm>AES(192)</encryption-algorithm>
        <encryption-algorithm>AES(256)</encryption-algorithm>
        <encryption-algorithm>AES-GCM(128)</encryption-algorithm>
        <encryption-algorithm>AES-GCM(192)</encryption-algorithm>
        <encryption-algorithm>AES-GCM(256)</encryption-algorithm>
        <encryption-algorithm>None</encryption-algorithm>
        <lifetime>Long</lifetime>
        <life-size>Long</life-size>
        <moid>String</moid>
        <edit-version>Integer</edit-version>
        <version>int</version>
        <definition-type>Hidden</definition-type>
        <definition-type>Predefined</definition-type>
        <definition-type>Custom</definition-type>
        <definition-type>All</definition-type>
```


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```
        <id>int</id>
      </phase2-proposal>
    </custom-phase2-proposals>
    <idle-time>Long</idle-time>
    <install-time>Integer</install-time>
    <dfbit>None</dfbit>
    <dfbit>Clear</dfbit>
    <dfbit>Set</dfbit>
    <dfbit>Copy</dfbit>
    <establishTunnel>Immediate</establishTunnel>
    <establishTunnel>On Traffic</establishTunnel>
    <enable-anti-replay>Boolean</enable-anti-replay>
    <enable-copy-outer-dscp>Boolean</enable-copy-outer-dscp>
    <enable-vpn-monitor>Boolean</enable-vpn-monitor>
    <enable-vpn-optimized>Boolean</enable-vpn-optimized>
    <establish-tunnel-immediately>Boolean</establish-tunnel-immediately>
    <pfs>None</pfs>
    <pfs>Group1</pfs>
    <pfs>Group2</pfs>
    <pfs>Group5</pfs>
    <pfs>Group14</pfs>
    <pfs>Group19</pfs>
    <pfs>Group20</pfs>
    <pfs>Group24</pfs>
  </phase2-setting>
  <phase1-setting>
    <mode>Main</mode>
    <mode>Aggressive</mode>
    <mode>Default</mode>
    <ike-id>None</ike-id>
    <ike-id>Host Name</ike-id>
    <ike-id>User At Hostname</ike-id>
    <ike-id>IP Address</ike-id>
    <ike-id>DN</ike-id>
    <general-ikeid>Boolean</general-ikeid>
    <ike-version>Default</ike-version>
    <ike-version>v1</ike-version>
    <ike-version>v2</ike-version>
    <ike-reauthentication>Integer</ike-reauthentication>
    <ike-fragment-enabled>boolean</ike-fragment-enabled>
    <ike-fragment-size>Integer</ike-fragment-size>
    <auth-method>Preshared Key</auth-method>
    <auth-method>RSA Signature</auth-method>
    <auth-method>DSA Signature</auth-method>
    <auth-method>EC-DSA-Signature (256)</auth-method>
    <auth-method>EC-DSA-Signature (384)</auth-method>
    <auth-method>EC-DSA-Signature (521)</auth-method>
    <phase1-proposal-type>Hidden</phase1-proposal-type>
    <phase1-proposal-type>Predefined</phase1-proposal-type>
    <phase1-proposal-type>Custom</phase1-proposal-type>
    <phase1-proposal-type>All</phase1-proposal-type>
    <phase1-predefined-proposal-set>Basic</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Standard</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Compatible</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>SuiteB-GCM-128</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>SuiteB-GCM-256</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Prime-128</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Prime-256</phase1-predefined-proposal-set>
    <custom-phase1-proposals>
      <phase1-proposal>
        <name>String</name>
        <dh-group>None</dh-group>
        <dh-group>Group1</dh-group>
        <dh-group>Group2</dh-group>
```


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```
            <dh-group>Group5</dh-group>
            <dh-group>Group14</dh-group>
            <dh-group>Group19</dh-group>
            <dh-group>Group20</dh-group>
            <dh-group>Group24</dh-group>
            <authentication-algorithm>MD5</authentication-algorithm>
            <authentication-algorithm>SHA1</authentication-algorithm>
            <authentication-algorithm>SHA-256</authentication-algorithm>
            <authentication-algorithm>SHA-384</authentication-algorithm>
            <authentication-algorithm>SHA-256(128)</authentication-algorithm>
            <authentication-algorithm>SHA-256(96)</authentication-algorithm>
            <authentication-algorithm>NONE</authentication-algorithm>
            <encryption-algorithm>DES</encryption-algorithm>
            <encryption-algorithm>3DES</encryption-algorithm>
            <encryption-algorithm>AES(128)</encryption-algorithm>
            <encryption-algorithm>AES(192)</encryption-algorithm>
            <encryption-algorithm>AES(256)</encryption-algorithm>
            <encryption-algorithm>AES-GCM(128)</encryption-algorithm>
            <encryption-algorithm>AES-GCM(192)</encryption-algorithm>
            <encryption-algorithm>AES-GCM(256)</encryption-algorithm>
            <encryption-algorithm>None</encryption-algorithm>
            <lifetime>Long</lifetime>
            <moid>String</moid>
            <edit-version>Integer</edit-version>
            <version>int</version>
            <definition-type>Hidden</definition-type>
            <definition-type>Predefined</definition-type>
            <definition-type>Custom</definition-type>
            <definition-type>All</definition-type>
            <id>int</id>
          </phase1-proposal>
        </custom-phase1-proposals>
        <enable-nat-traversal>Boolean</enable-nat-traversal>
        <nat-traversal-keep-alive>Integer</nat-traversal-keep-alive>
        <enable-dpd>Boolean</enable-dpd>
        <always-send-dpd>Boolean</always-send-dpd>
        <dpd-interval>Integer</dpd-interval>
        <dpd-threshold>Integer</dpd-threshold>
        <dpd-mode>always send</dpd-mode>
        <dpd-mode>optimized</dpd-mode>
        <dpd-mode>probe idle tunnel</dpd-mode>
        <username>String</username>
        <ike-connection-limit>Long</ike-connection-limit>
      </phase1-setting>
      <edit-version>Integer</edit-version>
      <definition-type>Hidden</definition-type>
      <definition-type>Predefined</definition-type>
      <definition-type>Custom</definition-type>
      <definition-type>All</definition-type>
      <description>String</description>
      <id>Integer</id>
      <type>Hub and Spoke(Establishment All Peers)</type>
      <type>Full Mesh</type>
      <type>Site to Site</type>
      <type>Hub and Spoke(Establishment by Spokes)</type>
      <type>Hub and Spoke(ADVPN - Auto Discovery VPN)</type>
      <type>Remote VPN NCP Client</type>
      <type>Remote VPN Juniper Secure Connect</type>
      <type>None</type>
    </vpn-profile>
```


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Sample JSON Output:


```
{
  "vpn-profile" : {
    "name" : "String",
    "last-modified-by-user-name" : "String",
    "created-by-user-name" : "String",
    "phase2-setting" : {
      "phase2-proposal-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "phase2-predefined-proposal-set" : [ "Basic", "Standard", "Compatible", "SuiteB-GCM-128", "SuiteB-
GCM-256", "Prime-128", "Prime-256" ],
      "custom-phase2-proposals" : {
        "phase2-proposal" : [ {
          "name" : "String",
          "protocol" : [ "ESP", "AH" ],
          "authentication-algorithm" : [ "MD5", "SHA1", "SHA-256", "SHA-384", "SHA-256(128)", "SHA-
256(96)", "NONE" ],
          "dh-group" : [ "None", "Group1", "Group2", "Group5", "Group14", "Group19", "Group20", "Group24" ],
          "encryption-algorithm" : [ "DES", "3DES", "AES(128)", "AES(192)", "AES(256)", "AES-GCM(128)",
"AES-GCM(192)", "AES-GCM(256)", "None" ],
          "lifetime" : "Long",
          "life-size" : "Long",
          "moid" : "String",
          "global" : "String",
          "edit-version" : "Integer",
          "version" : "int",
          "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
          "created-by-user-name" : "String",
          "last-modified-by-user-name" : "String",
          "domain-id" : "int",
          "id" : "int",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "idle-time" : "Long",
      "install-time" : "Integer",
      "dfbit" : [ "None", "Clear", "Set", "Copy" ],
      "establishTunnel" : [ "Immediate", "On Traffic" ],
      "enable-anti-replay" : "Boolean",
      "enable-copy-outer-dscp" : "Boolean",
      "enable-vpn-monitor" : "Boolean",
      "enable-vpn-optimized" : "Boolean",
      "establish-tunnel-immediately" : "Boolean",
      "pfs" : [ "None", "Group1", "Group2", "Group5", "Group14", "Group19", "Group20", "Group24" ],
      "uri" : "String"
    },
    "phase1-setting" : {
      "mode" : [ "Main", "Aggressive", "Default" ],
      "ike-id" : [ "None", "Host Name", "User At Hostname", "IP Address", "DN" ],
      "general-ikeid" : "Boolean",
      "ike-version" : [ "Default", "v1", "v2" ],
      "ike-reauthentication" : "Integer",
      "ike-fragment-enabled" : "boolean",
      "ike-fragment-size" : "Integer",
      "auth-method" : [ "Preshared Key", "RSA Signature", "DSA Signature", "EC-DSA-Signature (256)", "EC-
DSA-Signature (384)", "EC-DSA-Signature (521)" ],
      "phase1-proposal-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "phase1-predefined-proposal-set" : [ "Basic", "Standard", "Compatible", "SuiteB-GCM-128", "SuiteB-
GCM-256", "Prime-128", "Prime-256" ],
      "custom-phase1-proposals" : {
        "phase1-proposal" : [ {
```


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```
        "name" : "String",
        "dh-group" : [ "None", "Group1", "Group2", "Group5", "Group14", "Group19", "Group20", "Group24" ],
        "authentication-algorithm" : [ "MD5", "SHA1", "SHA-256", "SHA-384", "SHA-256(128)", "SHA-
256(96)", "NONE" ],
        "encryption-algorithm" : [ "DES", "3DES", "AES(128)", "AES(192)", "AES(256)", "AES-GCM(128)",
"AES-GCM(192)", "AES-GCM(256)", "None" ],
        "lifetime" : "Long",
        "moid" : "String",
        "global" : "String",
        "edit-version" : "Integer",
        "version" : "int",
        "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "created-by-user-name" : "String",
        "last-modified-by-user-name" : "String",
        "domain-id" : "int",
        "id" : "int",
        "uri" : "String"
       } ],
       "uri" : "String"
     },
     "enable-nat-traversal" : "Boolean",
     "nat-traversal-keep-alive" : "Integer",
     "enable-dpd" : "Boolean",
     "always-send-dpd" : "Boolean",
     "dpd-interval" : "Integer",
     "dpd-threshold" : "Integer",
     "dpd-mode" : [ "always send", "optimized", "probe idle tunnel" ],
     "username" : "String",
     "uri" : "String",
     "ike-connection-limit" : "Long"
   },
   "edit-version" : "Integer",
   "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
   "description" : "String",
   "domain-id" : "Integer",
   "id" : "Integer",
   "uri" : "String",
   "link" : "String",
   "domain-name" : "String",
   "type" : [ "Hub and Spoke(Establishment All Peers)", "Full Mesh", "Site to Site", "Hub and
Spoke(Establishment by Spokes)", "Hub and Spoke(ADVPN - Auto Discovery VPN)", "Remote VPN NCP
Client", "Remote VPN Juniper Secure Connect", "None" ]
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<vpn-profile>
  <name>String</name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-by-user-name>String</created-by-user-name>
  <phase2-setting>
    <phase2-proposal-type>Hidden</phase2-proposal-type>
    <phase2-proposal-type>Predefined</phase2-proposal-type>
    <phase2-proposal-type>Custom</phase2-proposal-type>
    <phase2-proposal-type>All</phase2-proposal-type>
    <phase2-predefined-proposal-set>Basic</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Standard</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Compatible</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>SuiteB-GCM-128</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>SuiteB-GCM-256</phase2-predefined-proposal-set>
    <phase2-predefined-proposal-set>Prime-128</phase2-predefined-proposal-set>
```


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```
<phase2-predefined-proposal-set>Prime-256</phase2-predefined-proposal-set>
<custom-phase2-proposals>
  <phase2-proposal>
    <name>String</name>
    <protocol>ESP</protocol>
    <protocol>AH</protocol>
    <authentication-algorithm>MD5</authentication-algorithm>
    <authentication-algorithm>SHA1</authentication-algorithm>
    <authentication-algorithm>SHA-256</authentication-algorithm>
    <authentication-algorithm>SHA-384</authentication-algorithm>
    <authentication-algorithm>SHA-256(128)</authentication-algorithm>
    <authentication-algorithm>SHA-256(96)</authentication-algorithm>
    <authentication-algorithm>NONE</authentication-algorithm>
    <dh-group>None</dh-group>
    <dh-group>Group1</dh-group>
    <dh-group>Group2</dh-group>
    <dh-group>Group5</dh-group>
    <dh-group>Group14</dh-group>
    <dh-group>Group19</dh-group>
    <dh-group>Group20</dh-group>
    <dh-group>Group24</dh-group>
    <encryption-algorithm>DES</encryption-algorithm>
    <encryption-algorithm>3DES</encryption-algorithm>
    <encryption-algorithm>AES(128)</encryption-algorithm>
    <encryption-algorithm>AES(192)</encryption-algorithm>
    <encryption-algorithm>AES(256)</encryption-algorithm>
    <encryption-algorithm>AES-GCM(128)</encryption-algorithm>
    <encryption-algorithm>AES-GCM(192)</encryption-algorithm>
    <encryption-algorithm>AES-GCM(256)</encryption-algorithm>
    <encryption-algorithm>None</encryption-algorithm>
    <lifetime>Long</lifetime>
    <life-size>Long</life-size>
    <moid>String</moid>
    <global>String</global>
    <edit-version>Integer</edit-version>
    <version>int</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-id>int</domain-id>
    <id>int</id>
    <uri>String</uri>
  </phase2-proposal>
  <uri>String</uri>
</custom-phase2-proposals>
<idle-time>Long</idle-time>
<install-time>Integer</install-time>
<dfbit>None</dfbit>
<dfbit>Clear</dfbit>
<dfbit>Set</dfbit>
<dfbit>Copy</dfbit>
<establishTunnel>Immediate</establishTunnel>
<establishTunnel>On Traffic</establishTunnel>
<enable-anti-replay>Boolean</enable-anti-replay>
<enable-copy-outer-dscp>Boolean</enable-copy-outer-dscp>
<enable-vpn-monitor>Boolean</enable-vpn-monitor>
<enable-vpn-optimized>Boolean</enable-vpn-optimized>
<establish-tunnel-immediately>Boolean</establish-tunnel-immediately>
<pfs>None</pfs>
<pfs>Group1</pfs>
<pfs>Group2</pfs>
```


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```
    <pfs>Group5</pfs>
    <pfs>Group14</pfs>
    <pfs>Group19</pfs>
    <pfs>Group20</pfs>
    <pfs>Group24</pfs>
    <uri>String</uri>
  </phase2-setting>
  <phase1-setting>
    <mode>Main</mode>
    <mode>Aggressive</mode>
    <mode>Default</mode>
    <ike-id>None</ike-id>
    <ike-id>Host Name</ike-id>
    <ike-id>User At Hostname</ike-id>
    <ike-id>IP Address</ike-id>
    <ike-id>DN</ike-id>
    <general-ikeid>Boolean</general-ikeid>
    <ike-version>Default</ike-version>
    <ike-version>v1</ike-version>
    <ike-version>v2</ike-version>
    <ike-reauthentication>Integer</ike-reauthentication>
    <ike-fragment-enabled>boolean</ike-fragment-enabled>
    <ike-fragment-size>Integer</ike-fragment-size>
    <auth-method>Preshared Key</auth-method>
    <auth-method>RSA Signature</auth-method>
    <auth-method>DSA Signature</auth-method>
    <auth-method>EC-DSA-Signature (256)</auth-method>
    <auth-method>EC-DSA-Signature (384)</auth-method>
    <auth-method>EC-DSA-Signature (521)</auth-method>
    <phase1-proposal-type>Hidden</phase1-proposal-type>
    <phase1-proposal-type>Predefined</phase1-proposal-type>
    <phase1-proposal-type>Custom</phase1-proposal-type>
    <phase1-proposal-type>All</phase1-proposal-type>
    <phase1-predefined-proposal-set>Basic</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Standard</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Compatible</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>SuiteB-GCM-128</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>SuiteB-GCM-256</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Prime-128</phase1-predefined-proposal-set>
    <phase1-predefined-proposal-set>Prime-256</phase1-predefined-proposal-set>
    <custom-phase1-proposals>
      <phase1-proposal>
        <name>String</name>
        <dh-group>None</dh-group>
        <dh-group>Group1</dh-group>
        <dh-group>Group2</dh-group>
        <dh-group>Group5</dh-group>
        <dh-group>Group14</dh-group>
        <dh-group>Group19</dh-group>
        <dh-group>Group20</dh-group>
        <dh-group>Group24</dh-group>
        <authentication-algorithm>MD5</authentication-algorithm>
        <authentication-algorithm>SHA1</authentication-algorithm>
        <authentication-algorithm>SHA-256</authentication-algorithm>
        <authentication-algorithm>SHA-384</authentication-algorithm>
        <authentication-algorithm>SHA-256(128)</authentication-algorithm>
        <authentication-algorithm>SHA-256(96)</authentication-algorithm>
        <authentication-algorithm>NONE</authentication-algorithm>
        <encryption-algorithm>DES</encryption-algorithm>
        <encryption-algorithm>3DES</encryption-algorithm>
        <encryption-algorithm>AES(128)</encryption-algorithm>
        <encryption-algorithm>AES(192)</encryption-algorithm>
        <encryption-algorithm>AES(256)</encryption-algorithm>
        <encryption-algorithm>AES-GCM(128)</encryption-algorithm>
```


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```
            <encryption-algorithm>AES-GCM(192)</encryption-algorithm>
            <encryption-algorithm>AES-GCM(256)</encryption-algorithm>
            <encryption-algorithm>None</encryption-algorithm>
            <lifetime>Long</lifetime>
            <moid>String</moid>
            <global>String</global>
            <edit-version>Integer</edit-version>
            <version>int</version>
            <definition-type>Hidden</definition-type>
            <definition-type>Predefined</definition-type>
            <definition-type>Custom</definition-type>
            <definition-type>All</definition-type>
            <created-by-user-name>String</created-by-user-name>
            <last-modified-by-user-name>String</last-modified-by-user-name>
            <domain-id>int</domain-id>
            <id>int</id>
            <uri>String</uri>
          </phase1-proposal>
          <uri>String</uri>
        </custom-phase1-proposals>
        <enable-nat-traversal>Boolean</enable-nat-traversal>
        <nat-traversal-keep-alive>Integer</nat-traversal-keep-alive>
        <enable-dpd>Boolean</enable-dpd>
        <always-send-dpd>Boolean</always-send-dpd>
        <dpd-interval>Integer</dpd-interval>
        <dpd-threshold>Integer</dpd-threshold>
        <dpd-mode>always send</dpd-mode>
        <dpd-mode>optimized</dpd-mode>
        <dpd-mode>probe idle tunnel</dpd-mode>
        <username>String</username>
        <uri>String</uri>
        <ike-connection-limit>Long</ike-connection-limit>
      </phase1-setting>
      <edit-version>Integer</edit-version>
      <definition-type>Hidden</definition-type>
      <definition-type>Predefined</definition-type>
      <definition-type>Custom</definition-type>
      <definition-type>All</definition-type>
      <description>String</description>
      <domain-id>Integer</domain-id>
      <id>Integer</id>
      <uri>String</uri>
      <link>String</link>
      <domain-name>String</domain-name>
      <type>Hub and Spoke(Establishment All Peers)</type>
      <type>Full Mesh</type>
      <type>Site to Site</type>
      <type>Hub and Spoke(Establishment by Spokes)</type>
      <type>Hub and Spoke(ADVPN - Auto Discovery VPN)</type>
      <type>Remote VPN NCP Client</type>
      <type>Remote VPN Juniper Secure Connect</type>
      <type>None</type>
    </vpn-profile>
```


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CHAPTER 48

Variable Definition Management RESTful Web Services

The following opertions can be performed using Secuirty Director Variable Definition Management RESTful Web Services

Get Variable Definition By ID

This request is used to get a variable definition by its ID.

URI	/api/juniper/sd/variable-management/variable-definitions/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.variable-management.variable-definition+xml;version=1;q=0.01 application/vnd.juniper.sd.variable-management.variable-definition+json;version=1;q=0.01
Access-Control	manageVariable

Sample JSON Output:


```
{
  "variable-definition" : {
    "name" : "String",
    "description" : "String",
    "type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
```


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```
"SD_PROVISIONING_RESULT", "DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP" ],
   "variable-values-list" : {
    "variable-values" : [ {
     "id" : "int",
     "device" : {
      "moid" : "String",
      "name" : "String",
      "uri" : "String",
      "link" : "String"
     },
     "variable-value-detail" : {
      "variable-value" : "String",
      "name" : "String",
      "uri" : "String",
      "link" : "String"
     },
     "uri" : "String"
    } ],
    "uri" : "String"
   },
   "default-value-detail" : {
    "default-value" : "String",
    "default-name" : "String",
    "uri" : "String",
    "link" : "String"
   },
   "variableObjRef" : {
    "default-value" : "String",
    "default-name" : "String",
    "uri" : "String",
    "link" : "String"
   },
   "last-modified-time" : "Date",
   "created-time" : "Date",
   "last-modified-by-user-name" : "String",
   "created-by-user-name" : "String",
   "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
   "edit-version" : "Integer",
   "domain-name" : "String",
   "domain-id" : "Integer",
   "id" : "Integer",
   "uri" : "String",
   "link" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<variable-definition>
   <name>String</name>
   <description>String</description>
   <type>VPN</type>
   <type>NAT_POLICY</type>
   <type>APBR_POLICY</type>
   <type>ADDRESS</type>
   <type>SSL_PROXY_PROFILE</type>
   <type>ACCESSPROFILE</type>
```


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```
<type>REDIRECT_APPLICATION_PROFILE</type>
<type>SERVICE</type>
<type>PORTSET</type>
<type>APPLICATION_SIGNATURE</type>
<type>IPS_SIGNATURE</type>
<type>IPS_SIGNATURE_SET</type>
<type>IPS_POLICY</type>
<type>IPSRULE_TYPE</type>
<type>POLICY</type>
<type>DCRULE_TYPE</type>
<type>NATRULE_TYPE</type>
<type>APBR_RULE_TYPE</type>
<type>APP_FW_RULE_TYPE</type>
<type>NAT_RULE_SET</type>
<type>NAT_POOL</type>
<type>VPNDEVICE_TYPE</type>
<type>VPNENDPOINT_TYPE</type>
<type>VARIABLE_DEFINITION</type>
<type>POLYZONEDEF_TYPE</type>
<type>SOURCEIDENTITY_TYPE</type>
<type>SECURITY_DEVICE</type>
<type>EXTRANET_DEVICE</type>
<type>IPSSIGSET_TYPE</type>
<type>SCHEDULER</type>
<type>ZONESET</type>
<type>ANTI_SPAM_PROFILE</type>
<type>ANTI_VIRUS_PROFILE</type>
<type>CONTENT_FILTERING_PROFILE</type>
<type>WEB_FILTERING_PROFILE</type>
<type>URL_CATEGORY_LIST</type>
<type>EMAIL_ADDRESS_PATTERN</type>
<type>URL_CATEGORIZATION_LIST</type>
<type>UTM_DEVICE_PROFILE</type>
<type>UTM_POLICY</type>
<type>POLICY_PROFILE</type>
<type>VPNPROFILE_TYPE</type>
<type>SD_PROVISIONING_RESULT</type>
<type>DYNAMIC_ADDRESS</type>
<type>CHANGE_REQUEST</type>
<type>APP_FW_POLICY</type>
<type>CHANGE_REQUEST_DEPLOYED</type>
<type>THREAT_POLICY</type>
<type>BASE_FILTER</type>
<type>ACTIVE_DIRECTORY</type>
<type>IDENTITY_MANAGEMENT</type>
<type>MACHINE_IDENTITY</type>
<type>CONDITION</type>
<type>ENVIRONMENT_VARIABLE</type>
<type>METADATA</type>
<type>METADATAEXPRESSION</type>
<type>METADATA_PROVIDER</type>
<type>GLOBAL</type>
<type>UTM_DEFAULT_CONFIGURATION</type>
<type>GLOBALIDP</type>
<type>ADDRESSPOOL</type>
<type>SSLVPNPROFILE</type>
<type>SECURE_WEB_PROXY_PROFILE</type>
<type>DNS_SECURITY_PROFILE</type>
<type>DNS_SECURITY_POLICY</type>
<type>DNS_SINKHOLE</type>
<type>DNS_FILTER</type>
<type>DATA_PLANE_PCAP</type>
<variable-values-list>
  <variable-values>
```


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```
      <id>int</id>
      <device>
        <moid>String</moid>
        <name>String</name>
        <uri>String</uri>
        <link>String</link>
      </device>
      <variable-value-detail>
        <variable-value>String</variable-value>
        <name>String</name>
        <uri>String</uri>
        <link>String</link>
      </variable-value-detail>
      <uri>String</uri>
    </variable-values>
    <uri>String</uri>
  </variable-values-list>
  <default-value-detail>
    <default-value>String</default-value>
    <default-name>String</default-name>
    <uri>String</uri>
    <link>String</link>
  </default-value-detail>
  <variableObjRef>
    <default-value>String</default-value>
    <default-name>String</default-name>
    <uri>String</uri>
    <link>String</link>
  </variableObjRef>
  <last-modified-time>Date</last-modified-time>
  <created-time>Date</created-time>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-by-user-name>String</created-by-user-name>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <uri>String</uri>
  <link>String</link>
</variable-definition>
```


Create Variable Definition

This request is used to create a variable definition.

URI	/api/juniper/sd/variable-management/variable-definitions
HTTP method	POST

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Content-Type	application/vnd.juniper.sd.variable-management.variable-definition+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.variable-management.variable-definition+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.variable-management.variable-definition+xml;version=1;q=0.01 application/vnd.juniper.sd.variable-management.variable-definition+json;version=1;q=0.01
Access-Control	createVariable

Sample JSON Input


```
{
  "variable-definition" : {
    "name" : "String",
    "description" : "String",
    "type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
"UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT",
"DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP" ],
    "variable-values-list" : {
      "variable-values" : [ {
        "id" : "int",
        "device" : {
          "moid" : "String",
          "name" : "String"
        },
        "variable-value-detail" : {
          "variable-value" : "String",
          "name" : "String"
        }
      } ]
    },
    "default-value-detail" : {
      "default-value" : "String",
      "default-name" : "String"
    },
    "variableObjRef" : {
      "default-value" : "String",
      "default-name" : "String"
    },
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
```


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```
    "id" : "Integer"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<variable-definition>
  <name>String</name>
  <description>String</description>
  <type>VPN</type>
  <type>NAT_POLICY</type>
  <type>APBR_POLICY</type>
  <type>ADDRESS</type>
  <type>SSL_PROXY_PROFILE</type>
  <type>ACCESSPROFILE</type>
  <type>REDIRECT_APPLICATION_PROFILE</type>
  <type>SERVICE</type>
  <type>PORTSET</type>
  <type>APPLICATION_SIGNATURE</type>
  <type>IPS_SIGNATURE</type>
  <type>IPS_SIGNATURE_SET</type>
  <type>IPS_POLICY</type>
  <type>IPSRULE_TYPE</type>
  <type>POLICY</type>
  <type>DCRULE_TYPE</type>
  <type>NATRULE_TYPE</type>
  <type>APBR_RULE_TYPE</type>
  <type>APP_FW_RULE_TYPE</type>
  <type>NAT_RULE_SET</type>
  <type>NAT_POOL</type>
  <type>VPNDEVICE_TYPE</type>
  <type>VPNENDPOINT_TYPE</type>
  <type>VARIABLE_DEFINITION</type>
  <type>POLYZONEDEF_TYPE</type>
  <type>SOURCEIDENTITY_TYPE</type>
  <type>SECURITY_DEVICE</type>
  <type>EXTRANET_DEVICE</type>
  <type>IPSSIGSET_TYPE</type>
  <type>SCHEDULER</type>
  <type>ZONESET</type>
  <type>ANTI_SPAM_PROFILE</type>
  <type>ANTI_VIRUS_PROFILE</type>
  <type>CONTENT_FILTERING_PROFILE</type>
  <type>WEB_FILTERING_PROFILE</type>
  <type>URL_CATEGORY_LIST</type>
  <type>EMAIL_ADDRESS_PATTERN</type>
  <type>URL_CATEGORIZATION_LIST</type>
  <type>UTM_DEVICE_PROFILE</type>
  <type>UTM_POLICY</type>
  <type>POLICY_PROFILE</type>
  <type>VPNPROFILE_TYPE</type>
  <type>SD_PROVISIONING_RESULT</type>
  <type>DYNAMIC_ADDRESS</type>
  <type>CHANGE_REQUEST</type>
  <type>APP_FW_POLICY</type>
  <type>CHANGE_REQUEST_DEPLOYED</type>
  <type>THREAT_POLICY</type>
  <type>BASE_FILTER</type>
```


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```
  <type>ACTIVE_DIRECTORY</type>
  <type>IDENTITY_MANAGEMENT</type>
  <type>MACHINE_IDENTITY</type>
  <type>CONDITION</type>
  <type>ENVIRONMENT_VARIABLE</type>
  <type>METADATA</type>
  <type>METADATAEXPRESSION</type>
  <type>METADATA_PROVIDER</type>
  <type>GLOBAL</type>
  <type>UTM_DEFAULT_CONFIGURATION</type>
  <type>GLOBALIDP</type>
  <type>ADDRESSPOOL</type>
  <type>SSLVPNPROFILE</type>
  <type>SECURE_WEB_PROXY_PROFILE</type>
  <type>DNS_SECURITY_PROFILE</type>
  <type>DNS_SECURITY_POLICY</type>
  <type>DNS_SINKHOLE</type>
  <type>DNS_FILTER</type>
  <type>DATA_PLANE_PCAP</type>
  <variable-values-list>
    <variable-values>
      <id>int</id>
      <device>
        <moid>String</moid>
        <name>String</name>
      </device>
      <variable-value-detail>
        <variable-value>String</variable-value>
        <name>String</name>
      </variable-value-detail>
    </variable-values>
  </variable-values-list>
  <default-value-detail>
    <default-value>String</default-value>
    <default-name>String</default-name>
  </default-value-detail>
  <variableObjRef>
    <default-value>String</default-value>
    <default-name>String</default-name>
  </variableObjRef>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <edit-version>Integer</edit-version>
  <id>Integer</id>
</variable-definition>
```

Sample JSON Output:

```
{
  "variable-definition" : {
    "name" : "String",
    "description" : "String",
    "type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
"UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT",
"DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
```


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"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP"],
  "variable-values-list" : {
    "variable-values" : [{
      "id" : "int",
      "device" : {
        "moid" : "String",
        "name" : "String",
        "uri" : "String",
        "link" : "String"
      },
      "variable-value-detail" : {
        "variable-value" : "String",
        "name" : "String",
        "uri" : "String",
        "link" : "String"
      },
      "uri" : "String"
    }],
    "uri" : "String"
  },
  "default-value-detail" : {
    "default-value" : "String",
    "default-name" : "String",
    "uri" : "String",
    "link" : "String"
  },
  "variableObjRef" : {
    "default-value" : "String",
    "default-name" : "String",
    "uri" : "String",
    "link" : "String"
  },
  "last-modified-time" : "Date",
  "created-time" : "Date",
  "last-modified-by-user-name" : "String",
  "created-by-user-name" : "String",
  "definition-type" : ["Hidden", "Predefined", "Custom", "All"],
  "edit-version" : "Integer",
  "domain-name" : "String",
  "domain-id" : "Integer",
  "id" : "Integer",
  "uri" : "String",
  "link" : "String"
 }
}

Sample XML Output:

<?xml version="1.0" encoding="UTF-8"?>
<variable-definition>
  <name>String</name>
  <description>String</description>
  <type>VPN</type>
  <type>NAT_POLICY</type>
  <type>APBR_POLICY</type>
  <type>ADDRESS</type>
  <type>SSL_PROXY_PROFILE</type>
  <type>ACCESSPROFILE</type>
  <type>REDIRECT_APPLICATION_PROFILE</type>
  <type>SERVICE</type>

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```
<type>PORTSET</type>
<type>APPLICATION_SIGNATURE</type>
<type>IPS_SIGNATURE</type>
<type>IPS_SIGNATURE_SET</type>
<type>IPS_POLICY</type>
<type>IPSRULE_TYPE</type>
<type>POLICY</type>
<type>DCRULE_TYPE</type>
<type>NATRULE_TYPE</type>
<type>APBR_RULE_TYPE</type>
<type>APP_FW_RULE_TYPE</type>
<type>NAT_RULE_SET</type>
<type>NAT_POOL</type>
<type>VPNDEVICE_TYPE</type>
<type>VPNENDPOINT_TYPE</type>
<type>VARIABLE_DEFINITION</type>
<type>POLYZONEDEF_TYPE</type>
<type>SOURCEIDENTITY_TYPE</type>
<type>SECURITY_DEVICE</type>
<type>EXTRANET_DEVICE</type>
<type>IPSSIGSET_TYPE</type>
<type>SCHEDULER</type>
<type>ZONESET</type>
<type>ANTI_SPAM_PROFILE</type>
<type>ANTI_VIRUS_PROFILE</type>
<type>CONTENT_FILTERING_PROFILE</type>
<type>WEB_FILTERING_PROFILE</type>
<type>URL_CATEGORY_LIST</type>
<type>EMAIL_ADDRESS_PATTERN</type>
<type>URL_CATEGORIZATION_LIST</type>
<type>UTM_DEVICE_PROFILE</type>
<type>UTM_POLICY</type>
<type>POLICY_PROFILE</type>
<type>VPNPROFILE_TYPE</type>
<type>SD_PROVISIONING_RESULT</type>
<type>DYNAMIC_ADDRESS</type>
<type>CHANGE_REQUEST</type>
<type>APP_FW_POLICY</type>
<type>CHANGE_REQUEST_DEPLOYED</type>
<type>THREAT_POLICY</type>
<type>BASE_FILTER</type>
<type>ACTIVE_DIRECTORY</type>
<type>IDENTITY_MANAGEMENT</type>
<type>MACHINE_IDENTITY</type>
<type>CONDITION</type>
<type>ENVIRONMENT_VARIABLE</type>
<type>METADATA</type>
<type>METADATAEXPRESSION</type>
<type>METADATA_PROVIDER</type>
<type>GLOBAL</type>
<type>UTM_DEFAULT_CONFIGURATION</type>
<type>GLOBALIDP</type>
<type>ADDRESSPOOL</type>
<type>SSLVPNPROFILE</type>
<type>SECURE_WEB_PROXY_PROFILE</type>
<type>DNS_SECURITY_PROFILE</type>
<type>DNS_SECURITY_POLICY</type>
<type>DNS_SINKHOLE</type>
<type>DNS_FILTER</type>
<type>DATA_PLANE_PCAP</type>
<variable-values-list>
  <variable-values>
    <id>int</id>
    <device>
```


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```
        <moid>String</moid>
        <name>String</name>
        <uri>String</uri>
        <link>String</link>
      </device>
      <variable-value-detail>
        <variable-value>String</variable-value>
        <name>String</name>
        <uri>String</uri>
        <link>String</link>
      </variable-value-detail>
      <uri>String</uri>
    </variable-values>
    <uri>String</uri>
  </variable-values-list>
  <default-value-detail>
    <default-value>String</default-value>
    <default-name>String</default-name>
    <uri>String</uri>
    <link>String</link>
  </default-value-detail>
  <variableObjRef>
    <default-value>String</default-value>
    <default-name>String</default-name>
    <uri>String</uri>
    <link>String</link>
  </variableObjRef>
  <last-modified-time>Date</last-modified-time>
  <created-time>Date</created-time>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-by-user-name>String</created-by-user-name>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <uri>String</uri>
  <link>String</link>
</variable-definition>
```


Modify Variable Definition

This request is used to modify a variable definition.

URI	/api/juniper/sd/variable-management/variable-definitions/{id}
HTTP method	PUT

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Content-Type	application/vnd.juniper.sd.variable-management.variable-definition+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.variable-management.variable-definition+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.variable-management.variable-definition+xml;version=1;q=0.01 application/vnd.juniper.sd.variable-management.variable-definition+json;version=1;q=0.01
Access-Control	modifyVariable

Sample JSON Input


```
{
  "variable-definition" : {
    "name" : "String",
    "description" : "String",
    "type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
"UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT",
"DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP" ],
    "variable-values-list" : {
      "variable-values" : [ {
        "id" : "int",
        "device" : {
          "moid" : "String",
          "name" : "String"
        },
        "variable-value-detail" : {
          "variable-value" : "String",
          "name" : "String"
        }
      } ]
    },
    "default-value-detail" : {
      "default-value" : "String",
      "default-name" : "String"
    },
    "variableObjRef" : {
      "default-value" : "String",
      "default-name" : "String"
    },
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
```


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```
    "id" : "Integer"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<variable-definition>
  <name>String</name>
  <description>String</description>
  <type>VPN</type>
  <type>NAT_POLICY</type>
  <type>APBR_POLICY</type>
  <type>ADDRESS</type>
  <type>SSL_PROXY_PROFILE</type>
  <type>ACCESSPROFILE</type>
  <type>REDIRECT_APPLICATION_PROFILE</type>
  <type>SERVICE</type>
  <type>PORTSET</type>
  <type>APPLICATION_SIGNATURE</type>
  <type>IPS_SIGNATURE</type>
  <type>IPS_SIGNATURE_SET</type>
  <type>IPS_POLICY</type>
  <type>IPSRULE_TYPE</type>
  <type>POLICY</type>
  <type>DCRULE_TYPE</type>
  <type>NATRULE_TYPE</type>
  <type>APBR_RULE_TYPE</type>
  <type>APP_FW_RULE_TYPE</type>
  <type>NAT_RULE_SET</type>
  <type>NAT_POOL</type>
  <type>VPNDEVICE_TYPE</type>
  <type>VPNENDPOINT_TYPE</type>
  <type>VARIABLE_DEFINITION</type>
  <type>POLYZONEDEF_TYPE</type>
  <type>SOURCEIDENTITY_TYPE</type>
  <type>SECURITY_DEVICE</type>
  <type>EXTRANET_DEVICE</type>
  <type>IPSSIGSET_TYPE</type>
  <type>SCHEDULER</type>
  <type>ZONESET</type>
  <type>ANTI_SPAM_PROFILE</type>
  <type>ANTI_VIRUS_PROFILE</type>
  <type>CONTENT_FILTERING_PROFILE</type>
  <type>WEB_FILTERING_PROFILE</type>
  <type>URL_CATEGORY_LIST</type>
  <type>EMAIL_ADDRESS_PATTERN</type>
  <type>URL_CATEGORIZATION_LIST</type>
  <type>UTM_DEVICE_PROFILE</type>
  <type>UTM_POLICY</type>
  <type>POLICY_PROFILE</type>
  <type>VPNPROFILE_TYPE</type>
  <type>SD_PROVISIONING_RESULT</type>
  <type>DYNAMIC_ADDRESS</type>
  <type>CHANGE_REQUEST</type>
  <type>APP_FW_POLICY</type>
  <type>CHANGE_REQUEST_DEPLOYED</type>
  <type>THREAT_POLICY</type>
  <type>BASE_FILTER</type>
```


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```
  <type>ACTIVE_DIRECTORY</type>
  <type>IDENTITY_MANAGEMENT</type>
  <type>MACHINE_IDENTITY</type>
  <type>CONDITION</type>
  <type>ENVIRONMENT_VARIABLE</type>
  <type>METADATA</type>
  <type>METADATAEXPRESSION</type>
  <type>METADATA_PROVIDER</type>
  <type>GLOBAL</type>
  <type>UTM_DEFAULT_CONFIGURATION</type>
  <type>GLOBALIDP</type>
  <type>ADDRESSPOOL</type>
  <type>SSLVPNPROFILE</type>
  <type>SECURE_WEB_PROXY_PROFILE</type>
  <type>DNS_SECURITY_PROFILE</type>
  <type>DNS_SECURITY_POLICY</type>
  <type>DNS_SINKHOLE</type>
  <type>DNS_FILTER</type>
  <type>DATA_PLANE_PCAP</type>
  <variable-values-list>
    <variable-values>
      <id>int</id>
      <device>
        <moid>String</moid>
        <name>String</name>
      </device>
      <variable-value-detail>
        <variable-value>String</variable-value>
        <name>String</name>
      </variable-value-detail>
    </variable-values>
  </variable-values-list>
  <default-value-detail>
    <default-value>String</default-value>
    <default-name>String</default-name>
  </default-value-detail>
  <variableObjRef>
    <default-value>String</default-value>
    <default-name>String</default-name>
  </variableObjRef>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <edit-version>Integer</edit-version>
  <id>Integer</id>
</variable-definition>
```

Sample JSON Output:

```
{
  "variable-definition" : {
    "name" : "String",
    "description" : "String",
    "type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
"UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT",
"DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
```


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```
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP" ],
   "variable-values-list" : {
    "variable-values" : [ {
     "id" : "int",
     "device" : {
      "moid" : "String",
      "name" : "String",
      "uri" : "String",
      "link" : "String"
     },
     "variable-value-detail" : {
      "variable-value" : "String",
      "name" : "String",
      "uri" : "String",
      "link" : "String"
     },
     "uri" : "String"
    } ],
    "uri" : "String"
   },
   "default-value-detail" : {
    "default-value" : "String",
    "default-name" : "String",
    "uri" : "String",
    "link" : "String"
   },
   "variableObjRef" : {
    "default-value" : "String",
    "default-name" : "String",
    "uri" : "String",
    "link" : "String"
   },
   "last-modified-time" : "Date",
   "created-time" : "Date",
   "last-modified-by-user-name" : "String",
   "created-by-user-name" : "String",
   "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
   "edit-version" : "Integer",
   "domain-name" : "String",
   "domain-id" : "Integer",
   "id" : "Integer",
   "uri" : "String",
   "link" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<variable-definition>
   <name>String</name>
   <description>String</description>
   <type>VPN</type>
   <type>NAT_POLICY</type>
   <type>APBR_POLICY</type>
   <type>ADDRESS</type>
   <type>SSL_PROXY_PROFILE</type>
   <type>ACCESSPROFILE</type>
   <type>REDIRECT_APPLICATION_PROFILE</type>
   <type>SERVICE</type>
```


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```
<type>PORTSET</type>
<type>APPLICATION_SIGNATURE</type>
<type>IPS_SIGNATURE</type>
<type>IPS_SIGNATURE_SET</type>
<type>IPS_POLICY</type>
<type>IPSRULE_TYPE</type>
<type>POLICY</type>
<type>DCRULE_TYPE</type>
<type>NATRULE_TYPE</type>
<type>APBR_RULE_TYPE</type>
<type>APP_FW_RULE_TYPE</type>
<type>NAT_RULE_SET</type>
<type>NAT_POOL</type>
<type>VPNDEVICE_TYPE</type>
<type>VPNENDPOINT_TYPE</type>
<type>VARIABLE_DEFINITION</type>
<type>POLYZONEDEF_TYPE</type>
<type>SOURCEIDENTITY_TYPE</type>
<type>SECURITY_DEVICE</type>
<type>EXTRANET_DEVICE</type>
<type>IPSSIGSET_TYPE</type>
<type>SCHEDULER</type>
<type>ZONESET</type>
<type>ANTI_SPAM_PROFILE</type>
<type>ANTI_VIRUS_PROFILE</type>
<type>CONTENT_FILTERING_PROFILE</type>
<type>WEB_FILTERING_PROFILE</type>
<type>URL_CATEGORY_LIST</type>
<type>EMAIL_ADDRESS_PATTERN</type>
<type>URL_CATEGORIZATION_LIST</type>
<type>UTM_DEVICE_PROFILE</type>
<type>UTM_POLICY</type>
<type>POLICY_PROFILE</type>
<type>VPNPROFILE_TYPE</type>
<type>SD_PROVISIONING_RESULT</type>
<type>DYNAMIC_ADDRESS</type>
<type>CHANGE_REQUEST</type>
<type>APP_FW_POLICY</type>
<type>CHANGE_REQUEST_DEPLOYED</type>
<type>THREAT_POLICY</type>
<type>BASE_FILTER</type>
<type>ACTIVE_DIRECTORY</type>
<type>IDENTITY_MANAGEMENT</type>
<type>MACHINE_IDENTITY</type>
<type>CONDITION</type>
<type>ENVIRONMENT_VARIABLE</type>
<type>METADATA</type>
<type>METADATAEXPRESSION</type>
<type>METADATA_PROVIDER</type>
<type>GLOBAL</type>
<type>UTM_DEFAULT_CONFIGURATION</type>
<type>GLOBALIDP</type>
<type>ADDRESSPOOL</type>
<type>SSLVPNPROFILE</type>
<type>SECURE_WEB_PROXY_PROFILE</type>
<type>DNS_SECURITY_PROFILE</type>
<type>DNS_SECURITY_POLICY</type>
<type>DNS_SINKHOLE</type>
<type>DNS_FILTER</type>
<type>DATA_PLANE_PCAP</type>
<variable-values-list>
  <variable-values>
    <id>int</id>
    <device>
```


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```
        <moid>String</moid>
        <name>String</name>
        <uri>String</uri>
        <link>String</link>
      </device>
      <variable-value-detail>
        <variable-value>String</variable-value>
        <name>String</name>
        <uri>String</uri>
        <link>String</link>
      </variable-value-detail>
      <uri>String</uri>
    </variable-values>
    <uri>String</uri>
  </variable-values-list>
  <default-value-detail>
    <default-value>String</default-value>
    <default-name>String</default-name>
    <uri>String</uri>
    <link>String</link>
  </default-value-detail>
  <variableObjRef>
    <default-value>String</default-value>
    <default-name>String</default-name>
    <uri>String</uri>
    <link>String</link>
  </variableObjRef>
  <last-modified-time>Date</last-modified-time>
  <created-time>Date</created-time>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-by-user-name>String</created-by-user-name>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <uri>String</uri>
  <link>String</link>
</variable-definition>
```


Delete Variable Definition by ID

This request is used to delete a variable definition by ID.

URI	/api/juniper/sd/variable-management/variable-definitions/{id}
HTTP method	DELETE

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Content-Type	None
Accept-Type	None
Access-Control	deleteVariable

Get Variable Definitions

This request is used to get a variable definition list

URI	/api/juniper/sd/variable-management/variable-definitions
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.variable-management.variable-definitions+xml;version=1;q=0.01 application/vnd.juniper.sd.variable-management.variable-definitions+json;version=1;q=0.01
Access-Control	manageVariable

Sample JSON Output:


```
{
  "variable-definitions" : {
    "variable-definition" : [ {
      "id" : "Integer",
      "name" : "String",
      "description" : "String",
      "type" : [ "VPN", "NAT_POLICY", "APBR_POLICY", "ADDRESS", "SSL_PROXY_PROFILE",
"ACCESSPROFILE", "REDIRECT_APPLICATION_PROFILE", "SERVICE", "PORTSET",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APBR_RULE_TYPE",
"APP_FW_RULE_TYPE", "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE",
"VPNENDPOINT_TYPE", "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE",
"SOURCEIDENTITY_TYPE", "SECURITY_DEVICE", "EXTRANET_DEVICE", "IPSSIGSET_TYPE",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "URL_CATEGORIZATION_LIST", "UTM_DEVICE_PROFILE",
```


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"SD_PROVISIONING_RESULT", "DYNAMIC_ADDRESS", "CHANGE_REQUEST", "APP_FW_POLICY",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "BASE_FILTER", "ACTIVE_DIRECTORY",
"IDENTITY_MANAGEMENT", "MACHINE_IDENTITY", "CONDITION", "ENVIRONMENT_VARIABLE",
"METADATA", "METADATAEXPRESSION", "METADATA_PROVIDER", "GLOBAL",
"UTM_DEFAULT_CONFIGURATION", "GLOBALIDP", "ADDRESSPOOL", "SSLVPNPROFILE",
"SECURE_WEB_PROXY_PROFILE", "DNS_SECURITY_PROFILE", "DNS_SECURITY_POLICY",
"DNS_SINKHOLE", "DNS_FILTER", "DATA_PLANE_PCAP"],
"default-value" : "String",
"global" : "String",
"domain-name" : "String",
"domain-id" : "Integer",
"uri" : "String",
"link" : "String"
}],
"uri" : "String",
"totalSize" : "int"
}
}

Sample XML Output:

<?xml version="1.0" encoding="UTF-8"?>
<variable-definitions>
<variable-definition>
<id>Integer</id>
<name>String</name>
<description>String</description>
<type>VPN</type>
<type>NAT_POLICY</type>
<type>APBR_POLICY</type>
<type>ADDRESS</type>
<type>SSL_PROXY_PROFILE</type>
<type>ACCESSPROFILE</type>
<type>REDIRECT_APPLICATION_PROFILE</type>
<type>SERVICE</type>
<type>PORTSET</type>
<type>APPLICATION_SIGNATURE</type>
<type>IPS_SIGNATURE</type>
<type>IPS_SIGNATURE_SET</type>
<type>IPS_POLICY</type>
<type>IPSRULE_TYPE</type>
<type>POLICY</type>
<type>DCRULE_TYPE</type>
<type>NATRULE_TYPE</type>
<type>APBR_RULE_TYPE</type>
<type>APP_FW_RULE_TYPE</type>
<type>NAT_RULE_SET</type>
<type>NAT_POOL</type>
<type>VPNDEVICE_TYPE</type>
<type>VPNENDPOINT_TYPE</type>
<type>VARIABLE_DEFINITION</type>
<type>POLYZONEDEF_TYPE</type>
<type>SOURCEIDENTITY_TYPE</type>
<type>SECURITY_DEVICE</type>
<type>EXTRANET_DEVICE</type>
<type>IPSSIGSET_TYPE</type>
<type>SCHEDULER</type>
<type>ZONESET</type>
<type>ANTI_SPAM_PROFILE</type>
<type>ANTI_VIRUS_PROFILE</type>
<type>CONTENT_FILTERING_PROFILE</type>
<type>WEB_FILTERING_PROFILE</type>
<type>URL_CATEGORY_LIST</type>
<type>EMAIL_ADDRESS_PATTERN</type>

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```
    <type>URL_CATEGORIZATION_LIST</type>
    <type>UTM_DEVICE_PROFILE</type>
    <type>UTM_POLICY</type>
    <type>POLICY_PROFILE</type>
    <type>VPNPROFILE_TYPE</type>
    <type>SD_PROVISIONING_RESULT</type>
    <type>DYNAMIC_ADDRESS</type>
    <type>CHANGE_REQUEST</type>
    <type>APP_FW_POLICY</type>
    <type>CHANGE_REQUEST_DEPLOYED</type>
    <type>THREAT_POLICY</type>
    <type>BASE_FILTER</type>
    <type>ACTIVE_DIRECTORY</type>
    <type>IDENTITY_MANAGEMENT</type>
    <type>MACHINE_IDENTITY</type>
    <type>CONDITION</type>
    <type>ENVIRONMENT_VARIABLE</type>
    <type>METADATA</type>
    <type>METADATAEXPRESSION</type>
    <type>METADATA_PROVIDER</type>
    <type>GLOBAL</type>
    <type>UTM_DEFAULT_CONFIGURATION</type>
    <type>GLOBALIDP</type>
    <type>ADDRESSPOOL</type>
    <type>SSLVPNPROFILE</type>
    <type>SECURE_WEB_PROXY_PROFILE</type>
    <type>DNS_SECURITY_PROFILE</type>
    <type>DNS_SECURITY_POLICY</type>
    <type>DNS_SINKHOLE</type>
    <type>DNS_FILTER</type>
    <type>DATA_PLANE_PCAP</type>
    <default-value>String</default-value>
    <global>String</global>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
    <link>String</link>
  </variable-definition>
  <uri>String</uri>
  <totalSize>int</totalSize>
</variable-definitions>
```

Import Variable Definitions from CSV

Initiates an asynchronous job to import variable definitions from a provided CSV file.

URI	/api/juniper/sd/variable-management/variable-definitions/import-variable-csv
HTTP method	POST
Content-Type	application/vnd.juniper.sd.import-csv-file+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.import-csv-file+json;version=1;charset=UTF-8

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Accept-Type	application/vnd.net.juniper.space.job-management.task+xml;version=1;q=0.01 application/vnd.net.juniper.space.job-management.task+json;version=1;q=0.01
Access-Control	createVariable

Sample JSON Input

```
{
  "import-file" : {
    "file-name" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<import-file>
   <file-name>String</file-name>
</import-file>
```

Sample JSON Output:

```
{
  "task" : {
    "id" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<task>
   <id>String</id>
</task>
```

Export Variable Definitions to CSV

Initiates an asynchronous job to export specified variable definitions to a CSV file.

URI	/api/juniper/sd/variable-management/variable-definitions/export-variables

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HTTP method	POST
Content-Type	application/vnd.juniper.sd.variable-management.variable-export+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.variable-management.variable-export+json;version=1;charset=UTF-8
Accept-Type	application/vnd.net.juniper.space.job-management.task+xml;version=1;q=0.01 application/vnd.net.juniper.space.job-management.task+json;version=1;q=0.01
Access-Control	manageVariable

Sample JSON Input

```
{
  "id-list" : {
    "ids" : [ "Integer" ],
    "total" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
   <total>int</total>
</id-list>
```

Sample JSON Output:

```
{
  "task" : {
    "id" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<task>
   <id>String</id>
</task>
```


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CHAPTER 49

Web DNS Filtering Management RESTful Web Services

The following opertions can be performed using Secuirty Director Web DNS Filtering Management RESTful Web Services

Update DNS Filter

Update an existing DNS filter

URI	/api/juniper/sd/dns-filter-management/dns-filters/{id}
HTTP method	PUT
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	modifyDNSFilter

Sample JSON Input

```
{
  "dns-filter" : {
    "id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "uuid" : "String",
    "moid" : "String",
    "name" : "String",
    "c2" : [ "String" ],
```


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```
    "benign" : [ "String" ],
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "name" : "String",
        "ip" : "String",
        "device-type" : "String"
      } ]
    }
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<dns-filter>
  <id>Integer</id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <uuid>String</uuid>
  <moid>String</moid>
  <name>String</name>
  <c2>String</c2>
  <benign>String</benign>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
      <device-type>String</device-type>
    </device-lite>
  </device-list>
</dns-filter>
```

Sample JSON Output:

```
{
  "dns-filter" : {
    "id" : "Integer",
    "domain-id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "uuid" : "String",
    "moid" : "String",
    "name" : "String",
```


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```
    "c2" : [ "String" ],
    "benign" : [ "String" ],
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "ip" : "String",
        "uri" : "String",
        "link" : "String",
        "device-type" : "String"
      } ],
      "uri" : "String"
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dns-filter>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <uuid>String</uuid>
  <moid>String</moid>
  <name>String</name>
  <c2>String</c2>
  <benign>String</benign>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <ip>String</ip>
      <uri>String</uri>
      <link>String</link>
      <device-type>String</device-type>
    </device-lite>
    <uri>String</uri>
  </device-list>
</dns-filter>
```


Update DNS Filter Device Assignment

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Assign or update devices assigned to a DNS Filter

URI	/api/juniper/sd/dns-filter-management/dns-filters/{filter-id}/assign-devices
HTTP method	PUT
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	modifyDNSFilterDeviceAssignment

Sample JSON Input

```
{
  "id-list" : {
    "ids" : [ "Integer" ],
    "total" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
   <total>int</total>
</id-list>
```

Sample JSON Output:

```
{
  "dns-filter" : {
    "id" : "Integer",
    "domain-id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "uuid" : "String",
    "moid" : "String",
    "name" : "String",
```


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```
    "c2" : [ "String" ],
    "benign" : [ "String" ],
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "ip" : "String",
        "uri" : "String",
        "link" : "String",
        "device-type" : "String"
      } ],
      "uri" : "String"
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dns-filter>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <uuid>String</uuid>
  <moid>String</moid>
  <name>String</name>
  <c2>String</c2>
  <benign>String</benign>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <ip>String</ip>
      <uri>String</uri>
      <link>String</link>
      <device-type>String</device-type>
    </device-lite>
    <uri>String</uri>
  </device-list>
</dns-filter>
```


Retrieve DNS Filter by ID

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Retrieve DNS filter

URI	/api/juniper/sd/dns-filter-management/dns-filters/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageDNSFilter

Sample JSON Output:


```
{
  "dns-filter" : {
    "id" : "Integer",
    "domain-id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "uuid" : "String",
    "moid" : "String",
    "name" : "String",
    "c2" : [ "String" ],
    "benign" : [ "String" ],
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "domain-name" : "String",
        "ip" : "String",
        "uri" : "String",
        "link" : "String",
        "device-type" : "String"
      } ],
      "uri" : "String"
    }
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<dns-filter>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <uuid>String</uuid>
  <moid>String</moid>
  <name>String</name>
  <c2>String</c2>
  <benign>String</benign>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <ip>String</ip>
      <uri>String</uri>
      <link>String</link>
      <device-type>String</device-type>
    </device-lite>
    <uri>String</uri>
  </device-list>
</dns-filter>
```

Find DNS Filter

Find all DNS filter

URI	/api/juniper/sd/dns-filter-management/dns-filters
HTTP method	GET
Content-Type	None

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Accept-Type	application/json application/xml
Access-Control	manageDNSFilter

Sample JSON Output:


```
{
  "dns-filters" : {
    "dns-filter" : [ {
      "id" : "Integer",
      "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
],
      "domain-id" : "Integer",
      "editVersion" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "createdByUserName" : "String",
      "lastModifiedByUserName" : "String",
      "createdTime" : "Date",
      "lastModifiedTime" : "Date",
      "version" : "Integer",
      "owningSystem" : "String",
      "name" : "String",
      "c2" : [ "String" ],
      "benign" : [ "String" ],
      "uuid" : "String",
      "moid" : "String",
      "device-list" : {
        "device-lite" : [ {
          "id" : "Integer",
          "domain-id" : "Integer",
          "name" : "String",
          "domain-name" : "String",
          "ip" : "String",
          "uri" : "String",
          "link" : "String"
        } ],
        "uri" : "String"
      }
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dns-filters>
  <dns-filter>
    <id>Integer</id>
    <publish-state>Not Published</publish-state>
    <publish-state>Partially Published</publish-state>
    <publish-state>Published</publish-state>
    <publish-state>Re-Publish Required</publish-state>
    <publish-state>Deleted</publish-state>
    <domain-id>Integer</domain-id>
    <editVersion>Integer</editVersion>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
```


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```
    <definition-type>All</definition-type>
    <createdByUserName>String</createdByUserName>
    <lastModifiedByUserName>String</lastModifiedByUserName>
    <createdTime>Date</createdTime>
    <lastModifiedTime>Date</lastModifiedTime>
    <version>Integer</version>
    <owningSystem>String</owningSystem>
    <name>String</name>
    <c2>String</c2>
    <benign>String</benign>
    <uuid>String</uuid>
    <moid>String</moid>
    <device-list>
      <device-lite>
        <id>Integer</id>
        <domain-id>Integer</domain-id>
        <name>String</name>
        <domain-name>String</domain-name>
        <ip>String</ip>
        <uri>String</uri>
        <link>String</link>
      </device-lite>
      <uri>String</uri>
    </device-list>
  </dns-filter>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</dns-filters>
```


Delete DNS Filter

Delete DNS filter by ID

URI	/api/juniper/sd/dns-filter-management/dns-filters/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteDNSFilter

Create DNS Filter

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Creates a new DNS filter definition in the system.

URI	/api/juniper/sd/dns-filter-management/dns-filters
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	createDNSFilter

Sample JSON Input

```
{
  "dns-filter" : {
    "id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "uuid" : "String",
    "moid" : "String",
    "name" : "String",
    "c2" : [ "String" ],
    "benign" : [ "String" ],
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "name" : "String",
        "ip" : "String",
        "device-type" : "String"
      } ]
    }
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<dns-filter>
  <id>Integer</id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <uuid>String</uuid>
  <moid>String</moid>
  <name>String</name>
  <c2>String</c2>
  <benign>String</benign>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
      <device-type>String</device-type>
    </device-lite>
  </device-list>
</dns-filter>
```

Sample JSON Output:

```
{
 "dns-filter" : {
  "id" : "Integer",
  "domain-id" : "Integer",
  "editVersion" : "Integer",
  "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
  "createdByUserName" : "String",
  "lastModifiedByUserName" : "String",
  "createdTime" : "Date",
  "lastModifiedTime" : "Date",
  "version" : "Integer",
  "owningSystem" : "String",
  "uuid" : "String",
  "moid" : "String",
  "name" : "String",
  "c2" : [ "String" ],
  "benign" : [ "String" ],
  "device-list" : {
   "device-lite" : [ {
    "id" : "Integer",
    "domain-id" : "Integer",
    "name" : "String",
    "domain-name" : "String",
    "ip" : "String",
    "uri" : "String",
    "link" : "String",
```


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```
      "device-type" : "String"
    } ],
    "uri" : "String"
  }
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<dns-filter>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <uuid>String</uuid>
  <moid>String</moid>
  <name>String</name>
  <c2>String</c2>
  <benign>String</benign>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <ip>String</ip>
      <uri>String</uri>
      <link>String</link>
      <device-type>String</device-type>
    </device-lite>
    <uri>String</uri>
  </device-list>
</dns-filter>
```


Publish DNS Filter

Publishes or deploys defined DNS filters to the system or target devices.

URI	/api/juniper/sd/dns-filter-management/provisioning/publish-filter?update=boolean

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HTTP method	POST
Content-Type	application/vnd.juniper.sd.dns-filter-management.publish+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.dns-filter-management.publish+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.dnsfilter-provisioning.monitorable-task-instances+xml;version=1;q=0.01 application/vnd.juniper.sd.dnsfilter-provisioning.monitorable-task-instances+json;version=1;q=0.01
Access-Control	publishDNSFilter

Sample JSON Input

```
{
  "publish" : {
    "policy-ids" : {
      "policy-id" : [ "Integer" ]
    },
    "delete-oldest-snapshot" : "Boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<publish>
   <policy-ids>
      <policy-id>Integer</policy-id>
   </policy-ids>
   <delete-oldest-snapshot>Boolean</delete-oldest-snapshot>
</publish>
```

Sample JSON Output:

```
{
  "monitorable-task-instances" : {
    "monitorable-task-instance-managed-object" : [ {
      "supports-recurrence" : "Boolean",
      "repeat-cron" : "String",
      "mo-state" : "String",
      "schedule-string" : "String",
      "job-status" : [ "UNDETERMINED", "INCOMPLETE", "FAILURE", "SUCCESS", "CANCELLED",
"DEPRECATED" ],
      "job-parameter-data-string" : "String",
      "gui-name" : "String",
      "job-state" : [ "SCHEDULED", "QUEUED", "STARTING", "INPROGRESS", "DONE", "CANCELLING",
"DISABLED" ],
      "start-time-string-rest" : "String",
      "device-image-name" : "String",
      "end-time" : "Date",
      "task-name" : "String",
      "service-name" : "String",
      "id" : "String",
      "start-time" : "Date",
```


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```
      "operation" : "String",
      "details" : "String",
      "details-action-type" : "String",
      "name" : "String",
      "scheduled-start-time-string-rest" : "String",
      "retry-of-id" : "Integer",
      "scheduled-start-time" : "Date",
      "script-bundle-selected" : "String",
      "details-action-url" : "String",
      "end-time-string-rest" : "String",
      "job-params-action-url" : "String",
      "percent-complete" : "Double",
      "is-enabled" : "Boolean",
      "retry-group-id" : "Integer",
      "job-params-summary" : "String",
      "complete-time" : "Integer",
      "user" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<monitorable-task-instances>
  <monitorable-task-instance-managed-object>
    <supports-recurrence>Boolean</supports-recurrence>
    <repeat-cron>String</repeat-cron>
    <mo-state>String</mo-state>
    <schedule-string>String</schedule-string>
    <job-status>UNDETERMINED</job-status>
    <job-status>INCOMPLETE</job-status>
    <job-status>FAILURE</job-status>
    <job-status>SUCCESS</job-status>
    <job-status>CANCELLED</job-status>
    <job-status>DEPRECATED</job-status>
    <job-parameter-data-string>String</job-parameter-data-string>
    <gui-name>String</gui-name>
    <job-state>SCHEDULED</job-state>
    <job-state>QUEUED</job-state>
    <job-state>STARTING</job-state>
    <job-state>INPROGRESS</job-state>
    <job-state>DONE</job-state>
    <job-state>CANCELLING</job-state>
    <job-state>DISABLED</job-state>
    <start-time-string-rest>String</start-time-string-rest>
    <device-image-name>String</device-image-name>
    <end-time>Date</end-time>
    <task-name>String</task-name>
    <service-name>String</service-name>
    <id>String</id>
    <start-time>Date</start-time>
    <operation>String</operation>
    <details>String</details>
    <details-action-type>String</details-action-type>
    <name>String</name>
    <scheduled-start-time-string-rest>String</scheduled-start-time-string-rest>
    <retry-of-id>Integer</retry-of-id>
    <scheduled-start-time>Date</scheduled-start-time>
    <script-bundle-selected>String</script-bundle-selected>
    <details-action-url>String</details-action-url>
```


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```
    <end-time-string-rest>String</end-time-string-rest>
    <job-params-action-url>String</job-params-action-url>
    <percent-complete>Double</percent-complete>
    <is-enabled>Boolean</is-enabled>
    <retry-group-id>Integer</retry-group-id>
    <job-params-summary>String</job-params-summary>
    <complete-time>Integer</complete-time>
    <user>String</user>
    <uri>String</uri>
  </monitorable-task-instance-managed-object>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</monitorable-task-instances>
```


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CHAPTER 50

Web Filtering Profile Management RESTful Web Services

The following opertions can be performed using Secuirty Director Web Filtering Profile Management RESTful Web Services

Modify Web Filtering Profile

This request is used to modify a web filtering profile.

URI	/api/juniper/sd/utm-management/web-filtering-profiles/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.utm-management.web-filtering-profile+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.web-filtering-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.web-filtering-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.web-filtering-profile+json;version=1;q=0.01
Access-Control	modifyWebFiltering

Sample JSON Input

```
{
  "web-filtering-profile" : {
    "category-base-filter" : { },
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "port" : "Integer",
    "safe-search" : "Boolean",
    "custom-block-message" : "String",
    "quarantine-custom-message" : "String",
```


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```
    "url-category-action-list" : {
      "url-category-action" : [ {
        "action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
        "reputation-action" : {
          "moderately-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "harmful" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "suspicious" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "very-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "fairly-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ]
        },
        "redirect-profile" : { },
        "url-category-list" : { },
        "redirectProfileDetail" : "String"
      } ]
    },
    "site-reputation-actions" : {
      "moderately-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "harmful" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "suspicious" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "very-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "fairly-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ]
    },
    "default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
    "sockets" : "Integer",
    "fallback-default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "profile-type" : [ "WEBSENSE", "SURF_CONTROL", "LOCAL", "JUNIPER_ENHANCED",
"NG_JUNIPER" ],
    "account" : "String",
    "server" : "String",
    "timeout" : "Integer",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<web-filtering-profile>
   <category-base-filter/>
   <name>String</name>
   <description>String</description>
   <id>Integer</id>
   <edit-version>Integer</edit-version>
   <definition-type>Hidden</definition-type>
   <definition-type>Predefined</definition-type>
   <definition-type>Custom</definition-type>
   <definition-type>All</definition-type>
   <port>Integer</port>
   <safe-search>Boolean</safe-search>
   <custom-block-message>String</custom-block-message>
   <quarantine-custom-message>String</quarantine-custom-message>
   <url-category-action-list>
      <url-category-action>
         <action>PERMIT</action>
         <action>LOG_AND_PERMIT</action>
         <action>BLOCK</action>
         <action>QUARANTINE</action>
         <action>NONE</action>
```


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```
      <reputation-action>
        <moderately-safe>PERMIT</moderately-safe>
        <moderately-safe>LOG_AND_PERMIT</moderately-safe>
        <moderately-safe>BLOCK</moderately-safe>
        <moderately-safe>QUARANTINE</moderately-safe>
        <moderately-safe>NONE</moderately-safe>
        <harmful>PERMIT</harmful>
        <harmful>LOG_AND_PERMIT</harmful>
        <harmful>BLOCK</harmful>
        <harmful>QUARANTINE</harmful>
        <harmful>NONE</harmful>
        <suspicious>PERMIT</suspicious>
        <suspicious>LOG_AND_PERMIT</suspicious>
        <suspicious>BLOCK</suspicious>
        <suspicious>QUARANTINE</suspicious>
        <suspicious>NONE</suspicious>
        <very-safe>PERMIT</very-safe>
        <very-safe>LOG_AND_PERMIT</very-safe>
        <very-safe>BLOCK</very-safe>
        <very-safe>QUARANTINE</very-safe>
        <very-safe>NONE</very-safe>
        <fairly-safe>PERMIT</fairly-safe>
        <fairly-safe>LOG_AND_PERMIT</fairly-safe>
        <fairly-safe>BLOCK</fairly-safe>
        <fairly-safe>QUARANTINE</fairly-safe>
        <fairly-safe>NONE</fairly-safe>
      </reputation-action>
      <redirect-profile/>
      <url-category-list/>
      <redirectProfileDetail>String</redirectProfileDetail>
    </url-category-action>
  </url-category-action-list>
  <site-reputation-actions>
    <moderately-safe>PERMIT</moderately-safe>
    <moderately-safe>LOG_AND_PERMIT</moderately-safe>
    <moderately-safe>BLOCK</moderately-safe>
    <moderately-safe>QUARANTINE</moderately-safe>
    <moderately-safe>NONE</moderately-safe>
    <harmful>PERMIT</harmful>
    <harmful>LOG_AND_PERMIT</harmful>
    <harmful>BLOCK</harmful>
    <harmful>QUARANTINE</harmful>
    <harmful>NONE</harmful>
    <suspicious>PERMIT</suspicious>
    <suspicious>LOG_AND_PERMIT</suspicious>
    <suspicious>BLOCK</suspicious>
    <suspicious>QUARANTINE</suspicious>
    <suspicious>NONE</suspicious>
    <very-safe>PERMIT</very-safe>
    <very-safe>LOG_AND_PERMIT</very-safe>
    <very-safe>BLOCK</very-safe>
    <very-safe>QUARANTINE</very-safe>
    <very-safe>NONE</very-safe>
    <fairly-safe>PERMIT</fairly-safe>
    <fairly-safe>LOG_AND_PERMIT</fairly-safe>
    <fairly-safe>BLOCK</fairly-safe>
    <fairly-safe>QUARANTINE</fairly-safe>
    <fairly-safe>NONE</fairly-safe>
  </site-reputation-actions>
  <default-action>PERMIT</default-action>
  <default-action>LOG_AND_PERMIT</default-action>
  <default-action>BLOCK</default-action>
  <default-action>QUARANTINE</default-action>
  <default-action>NONE</default-action>
```


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```
  <sockets>Integer</sockets>
  <fallback-default-action>PERMIT</fallback-default-action>
  <fallback-default-action>LOG_AND_PERMIT</fallback-default-action>
  <fallback-default-action>BLOCK</fallback-default-action>
  <fallback-default-action>NONE</fallback-default-action>
  <profile-type>WEBSENSE</profile-type>
  <profile-type>SURF_CONTROL</profile-type>
  <profile-type>LOCAL</profile-type>
  <profile-type>JUNIPER_ENHANCED</profile-type>
  <profile-type>NG_JUNIPER</profile-type>
  <account>String</account>
  <server>String</server>
  <timeout>Integer</timeout>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</web-filtering-profile>
```

Sample JSON Output:

```
{
 "web-filtering-profile" : {
   "category-base-filter" : { },
   "name" : "String",
   "description" : "String",
   "domain-name" : "String",
   "domain-id" : "Integer",
   "id" : "Integer",
   "edit-version" : "Integer",
   "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
   "port" : "Integer",
   "safe-search" : "Boolean",
   "custom-block-message" : "String",
   "quarantine-custom-message" : "String",
   "url-category-action-list" : {
     "url-category-action" : [ {
       "action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
       "reputation-action" : {
         "moderately-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
         "harmful" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
         "suspicious" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
         "very-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
         "fairly-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
         "uri" : "String"
       },
       "redirect-profile" : { },
       "url-category-list" : { },
       "redirectProfileDetail" : "String",
       "uri" : "String"
     } ],
     "uri" : "String"
   },
   "site-reputation-actions" : {
     "moderately-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
     "harmful" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
     "suspicious" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
     "very-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
     "fairly-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
     "uri" : "String"
   },
   "default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
```


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```
    "sockets" : "Integer",
    "fallback-default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "profile-type" : [ "WEBSENSE", "SURF_CONTROL", "LOCAL", "JUNIPER_ENHANCED",
"NG_JUNIPER" ],
    "account" : "String",
    "server" : "String",
    "timeout" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<web-filtering-profile>
  <category-base-filter/>
  <name>String</name>
  <description>String</description>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <port>Integer</port>
  <safe-search>Boolean</safe-search>
  <custom-block-message>String</custom-block-message>
  <quarantine-custom-message>String</quarantine-custom-message>
  <url-category-action-list>
    <url-category-action>
      <action>PERMIT</action>
      <action>LOG_AND_PERMIT</action>
      <action>BLOCK</action>
      <action>QUARANTINE</action>
      <action>NONE</action>
      <reputation-action>
        <moderately-safe>PERMIT</moderately-safe>
        <moderately-safe>LOG_AND_PERMIT</moderately-safe>
        <moderately-safe>BLOCK</moderately-safe>
        <moderately-safe>QUARANTINE</moderately-safe>
        <moderately-safe>NONE</moderately-safe>
        <harmful>PERMIT</harmful>
        <harmful>LOG_AND_PERMIT</harmful>
        <harmful>BLOCK</harmful>
        <harmful>QUARANTINE</harmful>
        <harmful>NONE</harmful>
        <suspicious>PERMIT</suspicious>
        <suspicious>LOG_AND_PERMIT</suspicious>
        <suspicious>BLOCK</suspicious>
```


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```
            <suspicious>QUARANTINE</suspicious>
            <suspicious>NONE</suspicious>
            <very-safe>PERMIT</very-safe>
            <very-safe>LOG_AND_PERMIT</very-safe>
            <very-safe>BLOCK</very-safe>
            <very-safe>QUARANTINE</very-safe>
            <very-safe>NONE</very-safe>
            <fairly-safe>PERMIT</fairly-safe>
            <fairly-safe>LOG_AND_PERMIT</fairly-safe>
            <fairly-safe>BLOCK</fairly-safe>
            <fairly-safe>QUARANTINE</fairly-safe>
            <fairly-safe>NONE</fairly-safe>
            <uri>String</uri>
          </reputation-action>
          <redirect-profile/>
          <url-category-list/>
          <redirectProfileDetail>String</redirectProfileDetail>
          <uri>String</uri>
        </url-category-action>
        <uri>String</uri>
      </url-category-action-list>
      <site-reputation-actions>
        <moderately-safe>PERMIT</moderately-safe>
        <moderately-safe>LOG_AND_PERMIT</moderately-safe>
        <moderately-safe>BLOCK</moderately-safe>
        <moderately-safe>QUARANTINE</moderately-safe>
        <moderately-safe>NONE</moderately-safe>
        <harmful>PERMIT</harmful>
        <harmful>LOG_AND_PERMIT</harmful>
        <harmful>BLOCK</harmful>
        <harmful>QUARANTINE</harmful>
        <harmful>NONE</harmful>
        <suspicious>PERMIT</suspicious>
        <suspicious>LOG_AND_PERMIT</suspicious>
        <suspicious>BLOCK</suspicious>
        <suspicious>QUARANTINE</suspicious>
        <suspicious>NONE</suspicious>
        <very-safe>PERMIT</very-safe>
        <very-safe>LOG_AND_PERMIT</very-safe>
        <very-safe>BLOCK</very-safe>
        <very-safe>QUARANTINE</very-safe>
        <very-safe>NONE</very-safe>
        <fairly-safe>PERMIT</fairly-safe>
        <fairly-safe>LOG_AND_PERMIT</fairly-safe>
        <fairly-safe>BLOCK</fairly-safe>
        <fairly-safe>QUARANTINE</fairly-safe>
        <fairly-safe>NONE</fairly-safe>
        <uri>String</uri>
      </site-reputation-actions>
      <default-action>PERMIT</default-action>
      <default-action>LOG_AND_PERMIT</default-action>
      <default-action>BLOCK</default-action>
      <default-action>QUARANTINE</default-action>
      <default-action>NONE</default-action>
      <sockets>Integer</sockets>
      <fallback-default-action>PERMIT</fallback-default-action>
      <fallback-default-action>LOG_AND_PERMIT</fallback-default-action>
      <fallback-default-action>BLOCK</fallback-default-action>
      <fallback-default-action>NONE</fallback-default-action>
      <profile-type>WEBSENSE</profile-type>
      <profile-type>SURF_CONTROL</profile-type>
      <profile-type>LOCAL</profile-type>
      <profile-type>JUNIPER_ENHANCED</profile-type>
      <profile-type>NG_JUNIPER</profile-type>
```


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```
<account>String</account>
<server>String</server>
<timeout>Integer</timeout>
<created-by-user-name>String</created-by-user-name>
<last-modified-by-user-name>String</last-modified-by-user-name>
<uri>String</uri>
<uuid>String</uuid>
<id_perms>
  <created>String</created>
  <creator>String</creator>
  <last_modified>String</last_modified>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-time>Date</created-time>
  <last-modified-time>Date</last-modified-time>
</id_perms>
<display_name>String</display_name>
<update_number>int</update_number>
</web-filtering-profile>
```

Get Web Filtering Profile by ID

This request is used to list the web filtering profile information by ID.

URI	/api/juniper/sd/utm-management/web-filtering-profiles/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.web-filtering-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.web-filtering-profile+json;version=1;q=0.01
Access-Control	viewWebFiltering

Sample JSON Output:

```
{
 "web-filtering-profile" : {
   "category-base-filter" : { },
   "name" : "String",
   "description" : "String",
   "domain-name" : "String",
   "domain-id" : "Integer",
   "id" : "Integer",
   "edit-version" : "Integer",
   "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
```


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```
    "port" : "Integer",
    "safe-search" : "Boolean",
    "custom-block-message" : "String",
    "quarantine-custom-message" : "String",
    "url-category-action-list" : {
      "url-category-action" : [ {
        "action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
        "reputation-action" : {
          "moderately-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "harmful" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "suspicious" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "very-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "fairly-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "uri" : "String"
        },
        "redirect-profile" : { },
        "url-category-list" : { },
        "redirectProfileDetail" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "site-reputation-actions" : {
      "moderately-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "harmful" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "suspicious" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "very-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "fairly-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "uri" : "String"
    },
    "default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
    "sockets" : "Integer",
    "fallback-default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "profile-type" : [ "WEBSENSE", "SURF_CONTROL", "LOCAL", "JUNIPER_ENHANCED",
"NG_JUNIPER" ],
    "account" : "String",
    "server" : "String",
    "timeout" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
    "update_number" : "int"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<web-filtering-profile>
  <category-base-filter/>
  <name>String</name>
  <description>String</description>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <port>Integer</port>
  <safe-search>Boolean</safe-search>
  <custom-block-message>String</custom-block-message>
  <quarantine-custom-message>String</quarantine-custom-message>
  <url-category-action-list>
    <url-category-action>
      <action>PERMIT</action>
      <action>LOG_AND_PERMIT</action>
      <action>BLOCK</action>
      <action>QUARANTINE</action>
      <action>NONE</action>
      <reputation-action>
        <moderately-safe>PERMIT</moderately-safe>
        <moderately-safe>LOG_AND_PERMIT</moderately-safe>
        <moderately-safe>BLOCK</moderately-safe>
        <moderately-safe>QUARANTINE</moderately-safe>
        <moderately-safe>NONE</moderately-safe>
        <harmful>PERMIT</harmful>
        <harmful>LOG_AND_PERMIT</harmful>
        <harmful>BLOCK</harmful>
        <harmful>QUARANTINE</harmful>
        <harmful>NONE</harmful>
        <suspicious>PERMIT</suspicious>
        <suspicious>LOG_AND_PERMIT</suspicious>
        <suspicious>BLOCK</suspicious>
        <suspicious>QUARANTINE</suspicious>
        <suspicious>NONE</suspicious>
        <very-safe>PERMIT</very-safe>
        <very-safe>LOG_AND_PERMIT</very-safe>
        <very-safe>BLOCK</very-safe>
        <very-safe>QUARANTINE</very-safe>
        <very-safe>NONE</very-safe>
        <fairly-safe>PERMIT</fairly-safe>
        <fairly-safe>LOG_AND_PERMIT</fairly-safe>
        <fairly-safe>BLOCK</fairly-safe>
        <fairly-safe>QUARANTINE</fairly-safe>
        <fairly-safe>NONE</fairly-safe>
        <uri>String</uri>
      </reputation-action>
      <redirect-profile/>
      <url-category-list/>
      <redirectProfileDetail>String</redirectProfileDetail>
      <uri>String</uri>
    </url-category-action>
    <uri>String</uri>
  </url-category-action-list>
  <site-reputation-actions>
    <moderately-safe>PERMIT</moderately-safe>
    <moderately-safe>LOG_AND_PERMIT</moderately-safe>
```


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```
    <moderately-safe>BLOCK</moderately-safe>
    <moderately-safe>QUARANTINE</moderately-safe>
    <moderately-safe>NONE</moderately-safe>
    <harmful>PERMIT</harmful>
    <harmful>LOG_AND_PERMIT</harmful>
    <harmful>BLOCK</harmful>
    <harmful>QUARANTINE</harmful>
    <harmful>NONE</harmful>
    <suspicious>PERMIT</suspicious>
    <suspicious>LOG_AND_PERMIT</suspicious>
    <suspicious>BLOCK</suspicious>
    <suspicious>QUARANTINE</suspicious>
    <suspicious>NONE</suspicious>
    <very-safe>PERMIT</very-safe>
    <very-safe>LOG_AND_PERMIT</very-safe>
    <very-safe>BLOCK</very-safe>
    <very-safe>QUARANTINE</very-safe>
    <very-safe>NONE</very-safe>
    <fairly-safe>PERMIT</fairly-safe>
    <fairly-safe>LOG_AND_PERMIT</fairly-safe>
    <fairly-safe>BLOCK</fairly-safe>
    <fairly-safe>QUARANTINE</fairly-safe>
    <fairly-safe>NONE</fairly-safe>
    <uri>String</uri>
  </site-reputation-actions>
  <default-action>PERMIT</default-action>
  <default-action>LOG_AND_PERMIT</default-action>
  <default-action>BLOCK</default-action>
  <default-action>QUARANTINE</default-action>
  <default-action>NONE</default-action>
  <sockets>Integer</sockets>
  <fallback-default-action>PERMIT</fallback-default-action>
  <fallback-default-action>LOG_AND_PERMIT</fallback-default-action>
  <fallback-default-action>BLOCK</fallback-default-action>
  <fallback-default-action>NONE</fallback-default-action>
  <profile-type>WEBSENSE</profile-type>
  <profile-type>SURF_CONTROL</profile-type>
  <profile-type>LOCAL</profile-type>
  <profile-type>JUNIPER_ENHANCED</profile-type>
  <profile-type>NG_JUNIPER</profile-type>
  <account>String</account>
  <server>String</server>
  <timeout>Integer</timeout>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</web-filtering-profile>
```

Get All Web Filtering Profiles

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This request is used to collect all the web filtering profile objects that are configured in Security Director.

URI	/api/juniper/sd/utm-management/web-filtering-profiles
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.utm-management.web-filtering-profile-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.web-filtering-profile-refs+json;version=1;q=0.01
Access-Control	viewWebFiltering

Sample JSON Output:


```
{
  "web-filtering-profiles" : {
    "web-filtering-profile" : [ {
      "name" : "String",
      "default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "profile-type" : "String",
      "description" : "String",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "id" : "Integer",
      "timeout" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "link" : "String",
      "uri" : "String",
      "global" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<web-filtering-profiles>
  <web-filtering-profile>
    <name>String</name>
    <default-action>PERMIT</default-action>
    <default-action>LOG_AND_PERMIT</default-action>
    <default-action>BLOCK</default-action>
    <default-action>QUARANTINE</default-action>
    <default-action>NONE</default-action>
    <profile-type>String</profile-type>
    <description>String</description>
    <domain-name>String</domain-name>
```


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```
    <domain-id>Integer</domain-id>
    <id>Integer</id>
    <timeout>Integer</timeout>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <link>String</link>
    <uri>String</uri>
    <global>String</global>
  </web-filtering-profile>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</web-filtering-profiles>
```

Delete Web Filtering Profile

This request is used to delete web filtering profiles by ID.

URI	/api/juniper/sd/utm-management/web-filtering-profiles/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteWebFiltering

Create Web Filtering Profile

This request is used to create a new web filtering profile.

URI	/api/juniper/sd/utm-management/web-filtering-profiles
HTTP method	POST

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Content-Type	application/vnd.juniper.sd.utm-management.web-filtering-profile+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.utm-management.web-filtering-profile+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.utm-management.web-filtering-profile+xml;version=1;q=0.01 application/vnd.juniper.sd.utm-management.web-filtering-profile+json;version=1;q=0.01
Access-Control	createWebFiltering

Sample JSON Input


```
{
  "web-filtering-profile" : {
    "category-base-filter" : { },
    "name" : "String",
    "description" : "String",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "port" : "Integer",
    "safe-search" : "Boolean",
    "custom-block-message" : "String",
    "quarantine-custom-message" : "String",
    "url-category-action-list" : {
      "url-category-action" : [ {
        "action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
        "reputation-action" : {
          "moderately-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "harmful" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "suspicious" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "very-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "fairly-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ]
        },
        "redirect-profile" : { },
        "url-category-list" : { },
        "redirectProfileDetail" : "String"
      } ]
    },
    "site-reputation-actions" : {
      "moderately-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "harmful" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "suspicious" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "very-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "fairly-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ]
    },
    "default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
    "sockets" : "Integer",
    "fallback-default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "profile-type" : [ "WEBSENSE", "SURF_CONTROL", "LOCAL", "JUNIPER_ENHANCED",
"NG_JUNIPER" ],
    "account" : "String",
    "server" : "String",
    "timeout" : "Integer",
    "uuid" : "String",
    "id_perms" : {
```


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```
    "created" : "String",
    "creator" : "String",
    "last_modified" : "String"
   },
   "display_name" : "String",
   "update_number" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<web-filtering-profile>
  <category-base-filter/>
  <name>String</name>
  <description>String</description>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <port>Integer</port>
  <safe-search>Boolean</safe-search>
  <custom-block-message>String</custom-block-message>
  <quarantine-custom-message>String</quarantine-custom-message>
  <url-category-action-list>
    <url-category-action>
      <action>PERMIT</action>
      <action>LOG_AND_PERMIT</action>
      <action>BLOCK</action>
      <action>QUARANTINE</action>
      <action>NONE</action>
      <reputation-action>
        <moderately-safe>PERMIT</moderately-safe>
        <moderately-safe>LOG_AND_PERMIT</moderately-safe>
        <moderately-safe>BLOCK</moderately-safe>
        <moderately-safe>QUARANTINE</moderately-safe>
        <moderately-safe>NONE</moderately-safe>
        <harmful>PERMIT</harmful>
        <harmful>LOG_AND_PERMIT</harmful>
        <harmful>BLOCK</harmful>
        <harmful>QUARANTINE</harmful>
        <harmful>NONE</harmful>
        <suspicious>PERMIT</suspicious>
        <suspicious>LOG_AND_PERMIT</suspicious>
        <suspicious>BLOCK</suspicious>
        <suspicious>QUARANTINE</suspicious>
        <suspicious>NONE</suspicious>
        <very-safe>PERMIT</very-safe>
        <very-safe>LOG_AND_PERMIT</very-safe>
        <very-safe>BLOCK</very-safe>
        <very-safe>QUARANTINE</very-safe>
        <very-safe>NONE</very-safe>
        <fairly-safe>PERMIT</fairly-safe>
        <fairly-safe>LOG_AND_PERMIT</fairly-safe>
        <fairly-safe>BLOCK</fairly-safe>
        <fairly-safe>QUARANTINE</fairly-safe>
        <fairly-safe>NONE</fairly-safe>
      </reputation-action>
      <redirect-profile/>
      <url-category-list/>
      <redirectProfileDetail>String</redirectProfileDetail>
    </url-category-action>
```


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```
  </url-category-action-list>
  <site-reputation-actions>
    <moderately-safe>PERMIT</moderately-safe>
    <moderately-safe>LOG_AND_PERMIT</moderately-safe>
    <moderately-safe>BLOCK</moderately-safe>
    <moderately-safe>QUARANTINE</moderately-safe>
    <moderately-safe>NONE</moderately-safe>
    <harmful>PERMIT</harmful>
    <harmful>LOG_AND_PERMIT</harmful>
    <harmful>BLOCK</harmful>
    <harmful>QUARANTINE</harmful>
    <harmful>NONE</harmful>
    <suspicious>PERMIT</suspicious>
    <suspicious>LOG_AND_PERMIT</suspicious>
    <suspicious>BLOCK</suspicious>
    <suspicious>QUARANTINE</suspicious>
    <suspicious>NONE</suspicious>
    <very-safe>PERMIT</very-safe>
    <very-safe>LOG_AND_PERMIT</very-safe>
    <very-safe>BLOCK</very-safe>
    <very-safe>QUARANTINE</very-safe>
    <very-safe>NONE</very-safe>
    <fairly-safe>PERMIT</fairly-safe>
    <fairly-safe>LOG_AND_PERMIT</fairly-safe>
    <fairly-safe>BLOCK</fairly-safe>
    <fairly-safe>QUARANTINE</fairly-safe>
    <fairly-safe>NONE</fairly-safe>
  </site-reputation-actions>
  <default-action>PERMIT</default-action>
  <default-action>LOG_AND_PERMIT</default-action>
  <default-action>BLOCK</default-action>
  <default-action>QUARANTINE</default-action>
  <default-action>NONE</default-action>
  <sockets>Integer</sockets>
  <fallback-default-action>PERMIT</fallback-default-action>
  <fallback-default-action>LOG_AND_PERMIT</fallback-default-action>
  <fallback-default-action>BLOCK</fallback-default-action>
  <fallback-default-action>NONE</fallback-default-action>
  <profile-type>WEBSENSE</profile-type>
  <profile-type>SURF_CONTROL</profile-type>
  <profile-type>LOCAL</profile-type>
  <profile-type>JUNIPER_ENHANCED</profile-type>
  <profile-type>NG_JUNIPER</profile-type>
  <account>String</account>
  <server>String</server>
  <timeout>Integer</timeout>
  <uuid>String</uuid>
  <id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
  </id_perms>
  <display_name>String</display_name>
  <update_number>int</update_number>
</web-filtering-profile>
```


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Sample JSON Output:


```
{
  "web-filtering-profile" : {
    "category-base-filter" : { },
    "name" : "String",
    "description" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "id" : "Integer",
    "edit-version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "port" : "Integer",
    "safe-search" : "Boolean",
    "custom-block-message" : "String",
    "quarantine-custom-message" : "String",
    "url-category-action-list" : {
      "url-category-action" : [ {
        "action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
        "reputation-action" : {
          "moderately-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "harmful" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "suspicious" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "very-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "fairly-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
          "uri" : "String"
        },
        "redirect-profile" : { },
        "url-category-list" : { },
        "redirectProfileDetail" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "site-reputation-actions" : {
      "moderately-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "harmful" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "suspicious" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "very-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "fairly-safe" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
      "uri" : "String"
    },
    "default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
    "sockets" : "Integer",
    "fallback-default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
    "profile-type" : [ "WEBSENSE", "SURF_CONTROL", "LOCAL", "JUNIPER_ENHANCED",
"NG_JUNIPER" ],
    "account" : "String",
    "server" : "String",
    "timeout" : "Integer",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String",
    "uuid" : "String",
    "id_perms" : {
      "created" : "String",
      "creator" : "String",
      "last_modified" : "String",
      "last-modified-by-user-name" : "String",
      "created-time" : "Date",
      "last-modified-time" : "Date"
    },
    "display_name" : "String",
    "update_number" : "int"
```


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```
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<web-filtering-profile>
  <category-base-filter/>
  <name>String</name>
  <description>String</description>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <port>Integer</port>
  <safe-search>Boolean</safe-search>
  <custom-block-message>String</custom-block-message>
  <quarantine-custom-message>String</quarantine-custom-message>
  <url-category-action-list>
    <url-category-action>
      <action>PERMIT</action>
      <action>LOG_AND_PERMIT</action>
      <action>BLOCK</action>
      <action>QUARANTINE</action>
      <action>NONE</action>
      <reputation-action>
        <moderately-safe>PERMIT</moderately-safe>
        <moderately-safe>LOG_AND_PERMIT</moderately-safe>
        <moderately-safe>BLOCK</moderately-safe>
        <moderately-safe>QUARANTINE</moderately-safe>
        <moderately-safe>NONE</moderately-safe>
        <harmful>PERMIT</harmful>
        <harmful>LOG_AND_PERMIT</harmful>
        <harmful>BLOCK</harmful>
        <harmful>QUARANTINE</harmful>
        <harmful>NONE</harmful>
        <suspicious>PERMIT</suspicious>
        <suspicious>LOG_AND_PERMIT</suspicious>
        <suspicious>BLOCK</suspicious>
        <suspicious>QUARANTINE</suspicious>
        <suspicious>NONE</suspicious>
        <very-safe>PERMIT</very-safe>
        <very-safe>LOG_AND_PERMIT</very-safe>
        <very-safe>BLOCK</very-safe>
        <very-safe>QUARANTINE</very-safe>
        <very-safe>NONE</very-safe>
        <fairly-safe>PERMIT</fairly-safe>
        <fairly-safe>LOG_AND_PERMIT</fairly-safe>
        <fairly-safe>BLOCK</fairly-safe>
        <fairly-safe>QUARANTINE</fairly-safe>
        <fairly-safe>NONE</fairly-safe>
        <uri>String</uri>
      </reputation-action>
      <redirect-profile/>
```


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```
      <url-category-list/>
      <redirectProfileDetail>String</redirectProfileDetail>
      <uri>String</uri>
    </url-category-action>
    <uri>String</uri>
</url-category-action-list>
<site-reputation-actions>
    <moderately-safe>PERMIT</moderately-safe>
    <moderately-safe>LOG_AND_PERMIT</moderately-safe>
    <moderately-safe>BLOCK</moderately-safe>
    <moderately-safe>QUARANTINE</moderately-safe>
    <moderately-safe>NONE</moderately-safe>
    <harmful>PERMIT</harmful>
    <harmful>LOG_AND_PERMIT</harmful>
    <harmful>BLOCK</harmful>
    <harmful>QUARANTINE</harmful>
    <harmful>NONE</harmful>
    <suspicious>PERMIT</suspicious>
    <suspicious>LOG_AND_PERMIT</suspicious>
    <suspicious>BLOCK</suspicious>
    <suspicious>QUARANTINE</suspicious>
    <suspicious>NONE</suspicious>
    <very-safe>PERMIT</very-safe>
    <very-safe>LOG_AND_PERMIT</very-safe>
    <very-safe>BLOCK</very-safe>
    <very-safe>QUARANTINE</very-safe>
    <very-safe>NONE</very-safe>
    <fairly-safe>PERMIT</fairly-safe>
    <fairly-safe>LOG_AND_PERMIT</fairly-safe>
    <fairly-safe>BLOCK</fairly-safe>
    <fairly-safe>QUARANTINE</fairly-safe>
    <fairly-safe>NONE</fairly-safe>
    <uri>String</uri>
</site-reputation-actions>
<default-action>PERMIT</default-action>
<default-action>LOG_AND_PERMIT</default-action>
<default-action>BLOCK</default-action>
<default-action>QUARANTINE</default-action>
<default-action>NONE</default-action>
<sockets>Integer</sockets>
<fallback-default-action>PERMIT</fallback-default-action>
<fallback-default-action>LOG_AND_PERMIT</fallback-default-action>
<fallback-default-action>BLOCK</fallback-default-action>
<fallback-default-action>NONE</fallback-default-action>
<profile-type>WEBSENSE</profile-type>
<profile-type>SURF_CONTROL</profile-type>
<profile-type>LOCAL</profile-type>
<profile-type>JUNIPER_ENHANCED</profile-type>
<profile-type>NG_JUNIPER</profile-type>
<account>String</account>
<server>String</server>
<timeout>Integer</timeout>
<created-by-user-name>String</created-by-user-name>
<last-modified-by-user-name>String</last-modified-by-user-name>
<uri>String</uri>
<uuid>String</uuid>
<id_perms>
    <created>String</created>
    <creator>String</creator>
    <last_modified>String</last_modified>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <created-time>Date</created-time>
    <last-modified-time>Date</last-modified-time>
</id_perms>
```


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```
  <display_name>String</display_name>
  <update_number>int</update_number>
</web-filtering-profile>
```


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CHAPTER 51

Web Proxy Profile Management RESTful Web Services

The following opertions can be performed using Secuirty Director Web Proxy Profile Management RESTful Web Services

Update Secure Web Proxy Profile

Modifies an existing Secure Web Proxy Profile identified by its ID.

URI	/api/juniper/sd/fwpolicy-management/secure-web-proxy-profile/{id}
HTTP method	PUT
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	modifySecureWebProxy

Sample JSON Input

```
{
  "secure-web-proxy-list" : {
    "id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "isPredefined" : "boolean",
    "validate" : "String",
    "name" : "String",
    "description" : "String",
    "app-sigs" : {
      "reference" : [ {
```


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```
      "id" : "Integer",
      "name" : "String"
    } ]
  },
  "proxyAddresses" : {
    "proxyAddress" : [ {
      "id" : "Integer",
      "name" : "String",
      "ip" : "String",
      "port" : "String"
    } ]
  },
  "dropOnDnsError" : "boolean",
  "uuid" : "String",
  "moid" : "String"
 }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<secure-web-proxy-list>
  <id>Integer</id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <isPredefined>boolean</isPredefined>
  <validate>String</validate>
  <name>String</name>
  <description>String</description>
  <app-sigs>
    <reference>
      <id>Integer</id>
      <name>String</name>
    </reference>
  </app-sigs>
  <proxyAddresses>
    <proxyAddress>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
      <port>String</port>
    </proxyAddress>
  </proxyAddresses>
  <dropOnDnsError>boolean</dropOnDnsError>
  <uuid>String</uuid>
  <moid>String</moid>
</secure-web-proxy-list>
```

Sample JSON Output:

```
{
 "secure-web-proxy-list" : {
  "id" : "Integer",
  "domain-id" : "Integer",
  "editVersion" : "Integer",
  "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "createdByUserName" : "String",
  "lastModifiedByUserName" : "String",
```


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```
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "isPredefined" : "boolean",
    "validate" : "String",
    "name" : "String",
    "description" : "String",
    "app-sigs" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "proxyAddresses" : {
      "proxyAddress" : [ {
        "id" : "Integer",
        "name" : "String",
        "ip" : "String",
        "port" : "String"
      } ]
    },
    "dropOnDnsError" : "boolean",
    "uuid" : "String",
    "moid" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<secure-web-proxy-list>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <isPredefined>boolean</isPredefined>
  <validate>String</validate>
  <name>String</name>
  <description>String</description>
  <app-sigs>
    <reference>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
    </reference>
    <uri>String</uri>
  </app-sigs>
  <proxyAddresses>
```


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```
    <proxyAddress>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
      <port>String</port>
    </proxyAddress>
  </proxyAddresses>
  <dropOnDnsError>boolean</dropOnDnsError>
  <uuid>String</uuid>
  <moid>String</moid>
</secure-web-proxy-list>
```

Retrieve Secure Web Proxy Profile by ID

Fetches the complete detailed configuration of a specific Secure Web Proxy Profile by its ID.

URI	/api/juniper/sd/fwpolicy-management/secure-web-proxy-profile/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageSecureWebProxy

Sample JSON Output:

```
{
  "secure-web-proxy-list" : {
    "id" : "Integer",
    "domain-id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "isPredefined" : "boolean",
    "validate" : "String",
    "name" : "String",
    "description" : "String",
    "app-sigs" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
```


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```
      "domain-id" : "Integer",
      "domain-name" : "String",
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "proxyAddresses" : {
    "proxyAddress" : [ {
      "id" : "Integer",
      "name" : "String",
      "ip" : "String",
      "port" : "String"
    } ]
  },
  "dropOnDnsError" : "boolean",
  "uuid" : "String",
  "moid" : "String"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<secure-web-proxy-list>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <isPredefined>boolean</isPredefined>
  <validate>String</validate>
  <name>String</name>
  <description>String</description>
  <app-sigs>
    <reference>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
    </reference>
    <uri>String</uri>
  </app-sigs>
  <proxyAddresses>
    <proxyAddress>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
      <port>String</port>
    </proxyAddress>
  </proxyAddresses>
  <dropOnDnsError>boolean</dropOnDnsError>
  <uuid>String</uuid>
  <moid>String</moid>
</secure-web-proxy-list>
```


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Retrieve All Secure Web Proxy Profiles (Paginated)

Fetches a paginated list of all configured Secure Web Proxy Profiles.

URI	/api/juniper/sd/fwpolicy-management/secure-web-proxy-profile
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageSecureWebProxy

Sample JSON Output:


```
{
  "secure-Web-Proxy-Profiles" : {
    "secure-web-proxy-profile" : [ {
      "id" : "Integer",
      "domain-id" : "Integer",
      "editVersion" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "createdByUserName" : "String",
      "lastModifiedByUserName" : "String",
      "createdTime" : "Date",
      "lastModifiedTime" : "Date",
      "version" : "Integer",
      "owningSystem" : "String",
      "isPredefined" : "boolean",
      "validate" : "String",
      "name" : "String",
      "description" : "String",
      "app-sigs" : {
        "reference" : [ {
          "id" : "Integer",
          "name" : "String",
          "domain-id" : "Integer",
          "domain-name" : "String",
          "uri" : "String"
        } ],
        "uri" : "String"
      },
      "proxyAddresses" : {
        "proxyAddress" : [ {
          "id" : "Integer",
          "name" : "String",
          "ip" : "String",
```


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```
        "port" : "String"
      } ]
    },
    "dropOnDnsError" : "boolean",
    "uuid" : "String",
    "moid" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<secure-Web-Proxy-Profiles>
  <secure-web-proxy-profile>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <editVersion>Integer</editVersion>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <createdByUserName>String</createdByUserName>
    <lastModifiedByUserName>String</lastModifiedByUserName>
    <createdTime>Date</createdTime>
    <lastModifiedTime>Date</lastModifiedTime>
    <version>Integer</version>
    <owningSystem>String</owningSystem>
    <isPredefined>boolean</isPredefined>
    <validate>String</validate>
    <name>String</name>
    <description>String</description>
    <app-sigs>
      <reference>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <domain-name>String</domain-name>
        <uri>String</uri>
      </reference>
      <uri>String</uri>
    </app-sigs>
    <proxyAddresses>
      <proxyAddress>
        <id>Integer</id>
        <name>String</name>
        <ip>String</ip>
        <port>String</port>
      </proxyAddress>
    </proxyAddresses>
    <dropOnDnsError>boolean</dropOnDnsError>
    <uuid>String</uuid>
    <moid>String</moid>
  </secure-web-proxy-profile>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</secure-Web-Proxy-Profiles>
```


Delete Secure Web Proxy Profile

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Deletes a specific Secure Web Proxy Profile from the system by its ID.

URI	/api/juniper/sd/fwpolicy-management/secure-web-proxy-profile/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteSecureWebProxy

Create Secure Web Proxy Profile

Creates a new Secure Web Proxy Profile configuration.

URI	/api/juniper/sd/fwpolicy-management/secure-web-proxy-profile
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	createSecureWebProxy

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Sample JSON Input

```
{
  "secure-web-proxy-list" : {
    "id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "isPredefined" : "boolean",
    "validate" : "String",
    "name" : "String",
    "description" : "String",
    "app-sigs" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String"
      } ]
    },
    "proxyAddresses" : {
      "proxyAddress" : [ {
        "id" : "Integer",
        "name" : "String",
        "ip" : "String",
        "port" : "String"
      } ]
    },
    "dropOnDnsError" : "boolean",
    "uuid" : "String",
    "moid" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<secure-web-proxy-list>
  <id>Integer</id>
  <editVersion>Integer</editVersion>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <createdByUserName>String</createdByUserName>
  <lastModifiedByUserName>String</lastModifiedByUserName>
  <createdTime>Date</createdTime>
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <isPredefined>boolean</isPredefined>
  <validate>String</validate>
  <name>String</name>
  <description>String</description>
  <app-sigs>
    <reference>
      <id>Integer</id>
      <name>String</name>
    </reference>
  </app-sigs>
  <proxyAddresses>
    <proxyAddress>
      <id>Integer</id>
```


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```
        <name>String</name>
        <ip>String</ip>
        <port>String</port>
      </proxyAddress>
    </proxyAddresses>
    <dropOnDnsError>boolean</dropOnDnsError>
    <uuid>String</uuid>
    <moid>String</moid>
</secure-web-proxy-list>
```

Sample JSON Output:

```
{
  "secure-web-proxy-list" : {
    "id" : "Integer",
    "domain-id" : "Integer",
    "editVersion" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "createdByUserName" : "String",
    "lastModifiedByUserName" : "String",
    "createdTime" : "Date",
    "lastModifiedTime" : "Date",
    "version" : "Integer",
    "owningSystem" : "String",
    "isPredefined" : "boolean",
    "validate" : "String",
    "name" : "String",
    "description" : "String",
    "app-sigs" : {
      "reference" : [ {
        "id" : "Integer",
        "name" : "String",
        "domain-id" : "Integer",
        "domain-name" : "String",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "proxyAddresses" : {
      "proxyAddress" : [ {
        "id" : "Integer",
        "name" : "String",
        "ip" : "String",
        "port" : "String"
      } ]
    },
    "dropOnDnsError" : "boolean",
    "uuid" : "String",
    "moid" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<secure-web-proxy-list>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <editVersion>Integer</editVersion>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <createdByUserName>String</createdByUserName>
    <lastModifiedByUserName>String</lastModifiedByUserName>
    <createdTime>Date</createdTime>
```


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```
  <lastModifiedTime>Date</lastModifiedTime>
  <version>Integer</version>
  <owningSystem>String</owningSystem>
  <isPredefined>boolean</isPredefined>
  <validate>String</validate>
  <name>String</name>
  <description>String</description>
  <app-sigs>
    <reference>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <domain-name>String</domain-name>
      <uri>String</uri>
    </reference>
    <uri>String</uri>
  </app-sigs>
  <proxyAddresses>
    <proxyAddress>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
      <port>String</port>
    </proxyAddress>
  </proxyAddresses>
  <dropOnDnsError>boolean</dropOnDnsError>
  <uuid>String</uuid>
  <moid>String</moid>
</secure-web-proxy-list>
```


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CHAPTER 52

Zone Set Management RESTful Web Services

The following opertions can be performed using Secuirty Director Zone Set Management RESTful Web Services

Modify Zone Set

This request is used to modify a zone set.

URI	/api/juniper/sd/zoneset-management/zone-sets/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.zoneset-management.zone-set+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.zoneset-management.zone-set+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.zoneset-management.zone-set+xml;version=1;q=0.01 application/vnd.juniper.sd.zoneset-management.zone-set+json;version=1;q=0.01
Access-Control	modifyZoneSet

Sample JSON Input

```
{
  "zone-set" : {
    "edit-version" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
    "zones" : "String",
    "id" : "Integer",
    "description" : "String",
    "name" : "String"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<zone-set>
   <edit-version>Integer</edit-version>
   <zone-type>POLYMORPHIC</zone-type>
   <zone-type>ZONE</zone-type>
   <zone-type>ZONESET</zone-type>
   <zone-type>AMS</zone-type>
   <zones>String</zones>
   <id>Integer</id>
   <description>String</description>
   <name>String</name>
</zone-set>
```

Sample JSON Output:

```
{
  "zone-set" : {
    "created-by-user-name" : "String",
    "edit-version" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
    "zones" : "String",
    "id" : "Integer",
    "last-modified-by-user-name" : "String",
    "description" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "name" : "String",
    "link" : "String",
    "uri" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<zone-set>
   <created-by-user-name>String</created-by-user-name>
   <edit-version>Integer</edit-version>
   <zone-type>POLYMORPHIC</zone-type>
   <zone-type>ZONE</zone-type>
   <zone-type>ZONESET</zone-type>
   <zone-type>AMS</zone-type>
   <zones>String</zones>
   <id>Integer</id>
   <last-modified-by-user-name>String</last-modified-by-user-name>
   <description>String</description>
   <domain-id>Integer</domain-id>
   <domain-name>String</domain-name>
   <name>String</name>
   <link>String</link>
   <uri>String</uri>
</zone-set>
```

Get Zone Set By ID

This request is used to get the zone set information by ID.

URI	/api/juniper/sd/zoneset-management/zone-sets/{id}

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HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.zoneset-management.zone-set+xml;version=1;q=0.01 application/vnd.juniper.sd.zoneset-management.zone-set+json;version=1;q=0.01
Access-Control	manageZoneSet

Sample JSON Output:


```
{
  "zone-set" : {
    "created-by-user-name" : "String",
    "edit-version" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
    "zones" : "String",
    "id" : "Integer",
    "last-modified-by-user-name" : "String",
    "description" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "name" : "String",
    "link" : "String",
    "uri" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<zone-set>
    <created-by-user-name>String</created-by-user-name>
    <edit-version>Integer</edit-version>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <zone-type>AMS</zone-type>
    <zones>String</zones>
    <id>Integer</id>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <name>String</name>
    <link>String</link>
    <uri>String</uri>
</zone-set>
```


Get All Zone Sets

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This request is used to lsit all the zone sets.

URI	/api/juniper/sd/zoneset-management/zone-sets
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.zoneset-management.zone-set-refs+xml;version=1;q=0.01 application/vnd.juniper.sd.zoneset-management.zone-set-refs+json;version=1;q=0.01
Access-Control	manageZoneSet

Sample JSON Output:


```
{
  "zone-sets" : {
    "zone-set" : [ {
      "zones" : "String",
      "hash-key" : "String",
      "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
      "id" : "Integer",
      "description" : "String",
      "domain-id" : "Integer",
      "domain-name" : "String",
      "name" : "String",
      "link" : "String",
      "uri" : "String",
      "global" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<zone-sets>
  <zone-set>
    <zones>String</zones>
    <hash-key>String</hash-key>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <zone-type>AMS</zone-type>
    <id>Integer</id>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
```


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```
    <name>String</name>
    <link>String</link>
    <uri>String</uri>
    <global>String</global>
  </zone-set>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</zone-sets>
```

Delete Zone Set

This request is used to delete a zone set by ID.

URI	/api/juniper/sd/zoneset-management/zone-sets/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteZoneSet

Create Zone Set

This request is used to create a new zone set.

URI	/api/juniper/sd/zoneset-management/zone-sets
HTTP method	POST
Content-Type	application/vnd.juniper.sd.zoneset-management.zone-set+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.zoneset-management.zone-set+json;version=1;charset=UTF-8

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Accept-Type	application/vnd.juniper.sd.zoneset-management.zone-set+xml;version=1;q=0.01 application/vnd.juniper.sd.zoneset-management.zone-set+json;version=1;q=0.01
Access-Control	createZoneSet

Sample JSON Input

```
{
  "zone-set" : {
    "edit-version" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
    "zones" : "String",
    "id" : "Integer",
    "description" : "String",
    "name" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<zone-set>
   <edit-version>Integer</edit-version>
   <zone-type>POLYMORPHIC</zone-type>
   <zone-type>ZONE</zone-type>
   <zone-type>ZONESET</zone-type>
   <zone-type>AMS</zone-type>
   <zones>String</zones>
   <id>Integer</id>
   <description>String</description>
   <name>String</name>
</zone-set>
```

Sample JSON Output:

```
{
  "zone-set" : {
    "created-by-user-name" : "String",
    "edit-version" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET", "AMS" ],
    "zones" : "String",
    "id" : "Integer",
    "last-modified-by-user-name" : "String",
    "description" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "name" : "String",
    "link" : "String",
    "uri" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<zone-set>
   <created-by-user-name>String</created-by-user-name>
   <edit-version>Integer</edit-version>
   <zone-type>POLYMORPHIC</zone-type>
   <zone-type>ZONE</zone-type>
   <zone-type>ZONESET</zone-type>
   <zone-type>AMS</zone-type>
```


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```
  <zones>String</zones>
  <id>Integer</id>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <description>String</description>
  <domain-id>Integer</domain-id>
  <domain-name>String</domain-name>
  <name>String</name>
  <link>String</link>
  <uri>String</uri>
</zone-set>
```


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PART 3

Security Director Logging and Reporting

CHAPTER 53

Event Management RESTful Web Services

The following opertions can be performed using Secuirty Director Event Management RESTful Web Services

Get Aggregated Logs

This request is used fectch information based on count or sum of a given attribute. An example of this is the top source address and their counts with a given filter criteria.

URI	/api/juniper/ecm/log-scoop/aggregate
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	ViewDeviceLogs, ViewDeviceEvents

Sample JSON Input

```
{
  "request" : {
    "aggregations" : [ "String" ],
    "aggregation" : "String",
    "aggregation-attributes" : [ "String" ],
    "time-interval" : "String",
    "size" : "int",
    "from" : "int",
    "search" : "String",
    "order" : "String",
    "slots" : "int",
```


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```
    "filters" : {
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      }
    },
    "sort" : "String",
    "include-fields" : [ "String" ],
    "exclude-fields" : [ "String" ],
    "resolve-addresses" : "boolean",
    "resolve-event-name" : "boolean",
    "legacyLC" : "boolean",
    "aggregation-fields" : [ "String" ],
    "job-id" : "String",
    "all-domains" : "boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <aggregations>String</aggregations>
  <aggregation>String</aggregation>
  <aggregation-attributes>String</aggregation-attributes>
  <time-interval>String</time-interval>
  <size>int</size>
  <from>int</from>
  <search>String</search>
  <order>String</order>
  <slots>int</slots>
  <filters>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
      <serialVersionUID>long</serialVersionUID>
      <key>String</key>
      <operator>String</operator>
      <value>String</value>
    </filter>
  </filters>
  <sort>String</sort>
  <include-fields>String</include-fields>
  <exclude-fields>String</exclude-fields>
  <resolve-addresses>boolean</resolve-addresses>
  <resolve-event-name>boolean</resolve-event-name>
  <legacyLC>boolean</legacyLC>
  <aggregation-fields>String</aggregation-fields>
  <job-id>String</job-id>
  <all-domains>boolean</all-domains>
</request>
```


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Sample JSON Output:

```
{ }
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Get Aggregated Logs Based On Time

This request is used to get aggregated logs based on the time. API allows to input the slots which splits the data for each time

URI	/api/juniper/ecm/log-scoop/time-aggregate
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	ViewDeviceLogs, ViewDeviceEvents

Sample JSON Input

```
{
  "request" : {
    "aggregations" : [ "String" ],
    "aggregation" : "String",
    "aggregation-attributes" : [ "String" ],
    "time-interval" : "String",
    "size" : "int",
    "from" : "int",
    "search" : "String",
    "order" : "String",
    "slots" : "int",
    "filters" : {
```


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```
    "serialVersionUID" : "long",
    "case-sensitive" : "boolean",
    "and" : [ ],
    "or" : [ ],
    "not" : [ ],
    "filter" : {
      "serialVersionUID" : "long",
      "key" : "String",
      "operator" : "String",
      "value" : [ "String" ]
    }
  },
  "sort" : "String",
  "include-fields" : [ "String" ],
  "exclude-fields" : [ "String" ],
  "resolve-addresses" : "boolean",
  "resolve-event-name" : "boolean",
  "legacyLC" : "boolean",
  "aggregation-fields" : [ "String" ],
  "job-id" : "String",
  "all-domains" : "boolean"
 }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <aggregations>String</aggregations>
  <aggregation>String</aggregation>
  <aggregation-attributes>String</aggregation-attributes>
  <time-interval>String</time-interval>
  <size>int</size>
  <from>int</from>
  <search>String</search>
  <order>String</order>
  <slots>int</slots>
  <filters>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
      <serialVersionUID>long</serialVersionUID>
      <key>String</key>
      <operator>String</operator>
      <value>String</value>
    </filter>
  </filters>
  <sort>String</sort>
  <include-fields>String</include-fields>
  <exclude-fields>String</exclude-fields>
  <resolve-addresses>boolean</resolve-addresses>
  <resolve-event-name>boolean</resolve-event-name>
  <legacyLC>boolean</legacyLC>
  <aggregation-fields>String</aggregation-fields>
  <job-id>String</job-id>
  <all-domains>boolean</all-domains>
</request>
```


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Sample JSON Output: { }

Sample XML Output: <?xml version="1.0" encoding="UTF-8"?>

Get Raw Logs

This request is used to get raw logs.

URI	/api/juniper/ecm/log-scoop/raw-log?index=String&id=String
HTTP method	GET
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	ViewDeviceLogs, ViewDeviceEvents

Sample JSON Output: { }

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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Get CSV Name

This request is used to get CSV filename for download.

URI	/api/juniper/ecm/log-scoop/csv-export
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	text/plain
Access-Control	ViewDeviceLogs, ViewDeviceEvents

Sample JSON Input

```
{
  "request" : {
    "aggregations" : [ "String" ],
    "aggregation" : "String",
    "aggregation-attributes" : [ "String" ],
    "time-interval" : "String",
    "size" : "int",
    "from" : "int",
    "search" : "String",
    "order" : "String",
    "slots" : "int",
    "filters" : {
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
```


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```
    }
   },
   "sort" : "String",
   "include-fields" : [ "String" ],
   "exclude-fields" : [ "String" ],
   "resolve-addresses" : "boolean",
   "resolve-event-name" : "boolean",
   "legacyLC" : "boolean",
   "aggregation-fields" : [ "String" ],
   "job-id" : "String",
   "all-domains" : "boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <aggregations>String</aggregations>
  <aggregation>String</aggregation>
  <aggregation-attributes>String</aggregation-attributes>
  <time-interval>String</time-interval>
  <size>int</size>
  <from>int</from>
  <search>String</search>
  <order>String</order>
  <slots>int</slots>
  <filters>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
      <serialVersionUID>long</serialVersionUID>
      <key>String</key>
      <operator>String</operator>
      <value>String</value>
    </filter>
  </filters>
  <sort>String</sort>
  <include-fields>String</include-fields>
  <exclude-fields>String</exclude-fields>
  <resolve-addresses>boolean</resolve-addresses>
  <resolve-event-name>boolean</resolve-event-name>
  <legacyLC>boolean</legacyLC>
  <aggregation-fields>String</aggregation-fields>
  <job-id>String</job-id>
  <all-domains>boolean</all-domains>
</request>
```

Sample JSON Output:

```
{
 "type" : "String"
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<type>String</type>
```

Download CSV

This request is used to download CSV file.

URI	/api/juniper/ecm/log-scoop/download-csv?fileName=String
HTTP method	GET
Content-Type	None
Accept-Type	text/plain
Access-Control	ViewDeviceLogs, ViewDeviceEvents

Sample JSON Output:

```
{}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Get Logs from Stream

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This request is used to fetch the logs in JSON form, with a given search criteria.

URI	/api/juniper/ecm/log-scoop/logs
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	ViewDeviceLogs, ViewDeviceEvents

Sample JSON Input

```
{
  "request" : {
    "aggregations" : [ "String" ],
    "aggregation" : "String",
    "aggregation-attributes" : [ "String" ],
    "time-interval" : "String",
    "size" : "int",
    "from" : "int",
    "search" : "String",
    "order" : "String",
    "slots" : "int",
    "filters" : {
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      }
    },
    "sort" : "String",
    "include-fields" : [ "String" ],
    "exclude-fields" : [ "String" ],
    "resolve-addresses" : "boolean",
    "resolve-event-name" : "boolean",
    "legacyLC" : "boolean",
    "aggregation-fields" : [ "String" ],
    "job-id" : "String",
    "all-domains" : "boolean"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <aggregations>String</aggregations>
  <aggregation>String</aggregation>
  <aggregation-attributes>String</aggregation-attributes>
  <time-interval>String</time-interval>
  <size>int</size>
  <from>int</from>
  <search>String</search>
  <order>String</order>
  <slots>int</slots>
  <filters>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
      <serialVersionUID>long</serialVersionUID>
      <key>String</key>
      <operator>String</operator>
      <value>String</value>
    </filter>
  </filters>
  <sort>String</sort>
  <include-fields>String</include-fields>
  <exclude-fields>String</exclude-fields>
  <resolve-addresses>boolean</resolve-addresses>
  <resolve-event-name>boolean</resolve-event-name>
  <legacyLC>boolean</legacyLC>
  <aggregation-fields>String</aggregation-fields>
  <job-id>String</job-id>
  <all-domains>boolean</all-domains>
</request>
```

Sample JSON Output:

```
{}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Get Multi-Level Aggregated Logs

This request is used to get multi-level aggregated logs.

URI	/api/juniper/ecm/log-scoop/multi-aggregate

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HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	ViewDeviceLogs, ViewDeviceEvents

Sample JSON Input

```
{
  "request" : {
    "aggregations" : [ "String" ],
    "aggregation" : "String",
    "aggregation-attributes" : [ "String" ],
    "time-interval" : "String",
    "size" : "int",
    "from" : "int",
    "search" : "String",
    "order" : "String",
    "slots" : "int",
    "filters" : {
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      }
    },
    "sort" : "String",
    "include-fields" : [ "String" ],
    "exclude-fields" : [ "String" ],
    "resolve-addresses" : "boolean",
    "resolve-event-name" : "boolean",
    "legacyLC" : "boolean",
    "aggregation-fields" : [ "String" ],
    "job-id" : "String",
    "all-domains" : "boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <aggregations>String</aggregations>
  <aggregation>String</aggregation>
  <aggregation-attributes>String</aggregation-attributes>
  <time-interval>String</time-interval>
  <size>int</size>
  <from>int</from>
```


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```
  <search>String</search>
  <order>String</order>
  <slots>int</slots>
  <filters>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
      <serialVersionUID>long</serialVersionUID>
      <key>String</key>
      <operator>String</operator>
      <value>String</value>
    </filter>
  </filters>
  <sort>String</sort>
  <include-fields>String</include-fields>
  <exclude-fields>String</exclude-fields>
  <resolve-addresses>boolean</resolve-addresses>
  <resolve-event-name>boolean</resolve-event-name>
  <legacyLC>boolean</legacyLC>
  <aggregation-fields>String</aggregation-fields>
  <job-id>String</job-id>
  <all-domains>boolean</all-domains>
</request>
```

Sample JSON Output:

```
{}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Check LogCollector Status

This request is used to check log collector status.

URI	/api/juniper/ecm/log-scoop/logcollector-status
HTTP method	GET
Content-Type	None

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Accept-Type	application/json application/xml
Access-Control	ViewDeviceLogs, ViewDeviceEvents

Sample JSON Output: { }

Sample XML Output: <?xml version="1.0" encoding="UTF-8"?>

Create New Alert Definition

Creates a new alert definition in the system.

URI	/api/juniper/seci/alertdefinition-management/alert-definitions
HTTP method	POST
Content-Type	application/vnd.juniper.seci.alertdefinition-management.alert-definition+xml;version=1;charset=UTF-8 application/vnd.juniper.seci.alertdefinition-management.alert-definition+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.seci.alertdefinition-management.alert-definition+xml;version=1;q=0.01 application/vnd.juniper.seci.alertdefinition-management.alert-definition+json;version=1;q=0.01
Access-Control	createAlert

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Sample JSON Input


```
{
  "alert-definition" : {
    "device-id" : "String",
    "users" : {
      "user" : [ "Integer" ]
    },
    "status" : "Boolean",
    "severity" : "Integer",
    "email-subject" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "version" : "Integer",
    "id" : "Integer",
    "additional-emails" : "String",
    "description" : "String",
    "name" : "String",
    "target" : "String",
    "alertcriteria" : {
      "filter-string" : "String",
      "formatted-filter" : {
        "serialVersionUID" : "long",
        "case-sensitive" : "boolean",
        "and" : [ ],
        "or" : [ ],
        "not" : [ ],
        "filter" : {
          "serialVersionUID" : "long",
          "key" : "String",
          "operator" : "String",
          "value" : [ "String" ]
        }
      },
      "version" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "id" : "Integer",
      "aggregation" : "String",
      "duration-unit" : "Integer",
      "duration" : "Long",
      "threshhold" : "Long"
    },
    "moid" : "String",
    "custom-message" : "String"
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<alert-definition>
  <device-id>String</device-id>
  <users>
    <user>Integer</user>
  </users>
  <status>Boolean</status>
  <severity>Integer</severity>
  <email-subject>String</email-subject>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <version>Integer</version>
  <id>Integer</id>
  <additional-emails>String</additional-emails>
  <description>String</description>
  <name>String</name>
```


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```
  <target>String</target>
  <alertcriteria>
    <filter-string>String</filter-string>
    <formatted-filter>
      <serialVersionUID>long</serialVersionUID>
      <case-sensitive>boolean</case-sensitive>
      <filter>
        <serialVersionUID>long</serialVersionUID>
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
      </filter>
    </formatted-filter>
    <version>Integer</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <id>Integer</id>
    <aggregation>String</aggregation>
    <duration-unit>Integer</duration-unit>
    <duration>Long</duration>
    <threshhold>Long</threshhold>
  </alertcriteria>
  <moid>String</moid>
  <custom-message>String</custom-message>
</alert-definition>
```

Sample JSON Output:

```
{
  "alert-definition" : {
    "device-id" : "String",
    "last-modified-time" : "Date",
    "created-by-user-name" : "String",
    "users" : {
      "user" : [ "Integer" ],
      "uri" : "String"
    },
    "created-time" : "Date",
    "status" : "Boolean",
    "domain-name" : "String",
    "severity" : "Integer",
    "email-subject" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "version" : "Integer",
    "last-modified-by-user-name" : "String",
    "id" : "Integer",
    "additional-emails" : "String",
    "description" : "String",
    "domain-id" : "Integer",
    "name" : "String",
    "target" : "String",
    "alertcriteria" : {
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "created-time" : "Date",
      "domain-name" : "String",
      "filter-string" : "String",
      "formatted-filter" : {
        "serialVersionUID" : "long",
        "case-sensitive" : "boolean",
        "and" : [ ],
        "or" : [ ],
        "not" : [ ],
```


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```
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      }
    },
    "version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id" : "Integer",
    "aggregation" : "String",
    "last-modified-by-user-name" : "String",
    "duration-unit" : "Integer",
    "duration" : "Long",
    "domain-id" : "Integer",
    "threshhold" : "Long",
    "uri" : "String"
  },
  "moid" : "String",
  "custom-message" : "String",
  "uri" : "String",
  "link" : "String"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<alert-definition>
  <device-id>String</device-id>
  <last-modified-time>Date</last-modified-time>
  <created-by-user-name>String</created-by-user-name>
  <users>
    <user>Integer</user>
    <uri>String</uri>
  </users>
  <created-time>Date</created-time>
  <status>Boolean</status>
  <domain-name>String</domain-name>
  <severity>Integer</severity>
  <email-subject>String</email-subject>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <version>Integer</version>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <id>Integer</id>
  <additional-emails>String</additional-emails>
  <description>String</description>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <target>String</target>
  <alertcriteria>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <created-time>Date</created-time>
    <domain-name>String</domain-name>
    <filter-string>String</filter-string>
    <formatted-filter>
      <serialVersionUID>long</serialVersionUID>
      <case-sensitive>boolean</case-sensitive>
      <filter>
        <serialVersionUID>long</serialVersionUID>
```


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```
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
      </filter>
    </formatted-filter>
    <version>Integer</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <id>Integer</id>
    <aggregation>String</aggregation>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <duration-unit>Integer</duration-unit>
    <duration>Long</duration>
    <domain-id>Integer</domain-id>
    <threshhold>Long</threshhold>
    <uri>String</uri>
  </alertcriteria>
  <moid>String</moid>
  <custom-message>String</custom-message>
  <uri>String</uri>
  <link>String</link>
</alert-definition>
```

Modify Existing Alert Definition

Updates an existing alert definition identified by its Managed Object ID (MOID).

URI	/api/juniper/seci/alertdefinition-management/alert-definitions/{moid}
HTTP method	PUT
Content-Type	application/vnd.juniper.seci.alertdefinition-management.alert-definition+xml;version=1;charset=UTF-8 application/vnd.juniper.seci.alertdefinition-management.alert-definition+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.seci.alertdefinition-management.alert-definition+xml;version=1;q=0.01 application/vnd.juniper.seci.alertdefinition-management.alert-definition+json;version=1;q=0.01
Access-Control	modifyAlert

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Sample JSON Input

```
{
  "alert-definition" : {
    "device-id" : "String",
    "users" : {
      "user" : [ "Integer" ]
    },
    "status" : "Boolean",
    "severity" : "Integer",
    "email-subject" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "version" : "Integer",
    "id" : "Integer",
    "additional-emails" : "String",
    "description" : "String",
    "name" : "String",
    "target" : "String",
    "alertcriteria" : {
      "filter-string" : "String",
      "formatted-filter" : {
        "serialVersionUID" : "long",
        "case-sensitive" : "boolean",
        "and" : [ ],
        "or" : [ ],
        "not" : [ ],
        "filter" : {
          "serialVersionUID" : "long",
          "key" : "String",
          "operator" : "String",
          "value" : [ "String" ]
        }
      },
      "version" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "id" : "Integer",
      "aggregation" : "String",
      "duration-unit" : "Integer",
      "duration" : "Long",
      "threshhold" : "Long"
    },
    "moid" : "String",
    "custom-message" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<alert-definition>
  <device-id>String</device-id>
  <users>
    <user>Integer</user>
  </users>
  <status>Boolean</status>
  <severity>Integer</severity>
  <email-subject>String</email-subject>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <version>Integer</version>
  <id>Integer</id>
  <additional-emails>String</additional-emails>
  <description>String</description>
  <name>String</name>
```


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```
  <target>String</target>
  <alertcriteria>
    <filter-string>String</filter-string>
    <formatted-filter>
      <serialVersionUID>long</serialVersionUID>
      <case-sensitive>boolean</case-sensitive>
      <filter>
        <serialVersionUID>long</serialVersionUID>
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
      </filter>
    </formatted-filter>
    <version>Integer</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <id>Integer</id>
    <aggregation>String</aggregation>
    <duration-unit>Integer</duration-unit>
    <duration>Long</duration>
    <threshhold>Long</threshhold>
  </alertcriteria>
  <moid>String</moid>
  <custom-message>String</custom-message>
</alert-definition>
```

Sample JSON Output:

```
{
  "alert-definition" : {
    "device-id" : "String",
    "last-modified-time" : "Date",
    "created-by-user-name" : "String",
    "users" : {
      "user" : [ "Integer" ],
      "uri" : "String"
    },
    "created-time" : "Date",
    "status" : "Boolean",
    "domain-name" : "String",
    "severity" : "Integer",
    "email-subject" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "version" : "Integer",
    "last-modified-by-user-name" : "String",
    "id" : "Integer",
    "additional-emails" : "String",
    "description" : "String",
    "domain-id" : "Integer",
    "name" : "String",
    "target" : "String",
    "alertcriteria" : {
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "created-time" : "Date",
      "domain-name" : "String",
      "filter-string" : "String",
      "formatted-filter" : {
        "serialVersionUID" : "long",
        "case-sensitive" : "boolean",
        "and" : [ ],
        "or" : [ ],
        "not" : [ ],
```


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```
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      }
    },
    "version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "id" : "Integer",
    "aggregation" : "String",
    "last-modified-by-user-name" : "String",
    "duration-unit" : "Integer",
    "duration" : "Long",
    "domain-id" : "Integer",
    "threshhold" : "Long",
    "uri" : "String"
  },
  "moid" : "String",
  "custom-message" : "String",
  "uri" : "String",
  "link" : "String"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<alert-definition>
  <device-id>String</device-id>
  <last-modified-time>Date</last-modified-time>
  <created-by-user-name>String</created-by-user-name>
  <users>
    <user>Integer</user>
    <uri>String</uri>
  </users>
  <created-time>Date</created-time>
  <status>Boolean</status>
  <domain-name>String</domain-name>
  <severity>Integer</severity>
  <email-subject>String</email-subject>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <version>Integer</version>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <id>Integer</id>
  <additional-emails>String</additional-emails>
  <description>String</description>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <target>String</target>
  <alertcriteria>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <created-time>Date</created-time>
    <domain-name>String</domain-name>
    <filter-string>String</filter-string>
    <formatted-filter>
      <serialVersionUID>long</serialVersionUID>
      <case-sensitive>boolean</case-sensitive>
      <filter>
        <serialVersionUID>long</serialVersionUID>
```


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```
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
      </filter>
    </formatted-filter>
    <version>Integer</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <id>Integer</id>
    <aggregation>String</aggregation>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <duration-unit>Integer</duration-unit>
    <duration>Long</duration>
    <domain-id>Integer</domain-id>
    <threshhold>Long</threshhold>
    <uri>String</uri>
  </alertcriteria>
  <moid>String</moid>
  <custom-message>String</custom-message>
  <uri>String</uri>
  <link>String</link>
</alert-definition>
```


Retrieve Alert Definition by ID

Fetches a single alert definition based on its Managed Object ID (MOID).

URI	/api/juniper/seci/alertdefinition-management/alert-definitions/{moid}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.alertdefinition-management.alert-definition+xml;version=1;q=0.01 application/vnd.juniper.seci.alertdefinition-management.alert-definition+json;version=1;q=0.01
Access-Control	DefaultRead

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Sample JSON Output:


```
{
  "alert-definition" : {
    "device-id" : "String",
    "last-modified-time" : "Date",
    "created-by-user-name" : "String",
    "users" : {
      "user" : [ "Integer" ],
      "uri" : "String"
    },
    "created-time" : "Date",
    "status" : "Boolean",
    "domain-name" : "String",
    "severity" : "Integer",
    "email-subject" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "version" : "Integer",
    "last-modified-by-user-name" : "String",
    "id" : "Integer",
    "additional-emails" : "String",
    "description" : "String",
    "domain-id" : "Integer",
    "name" : "String",
    "target" : "String",
    "alertcriteria" : {
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "created-time" : "Date",
      "domain-name" : "String",
      "filter-string" : "String",
      "formatted-filter" : {
        "serialVersionUID" : "long",
        "case-sensitive" : "boolean",
        "and" : [ ],
        "or" : [ ],
        "not" : [ ],
        "filter" : {
          "serialVersionUID" : "long",
          "key" : "String",
          "operator" : "String",
          "value" : [ "String" ]
        }
      },
      "version" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "id" : "Integer",
      "aggregation" : "String",
      "last-modified-by-user-name" : "String",
      "duration-unit" : "Integer",
      "duration" : "Long",
      "domain-id" : "Integer",
      "threshhold" : "Long",
      "uri" : "String"
    },
    "moid" : "String",
    "custom-message" : "String",
    "uri" : "String",
    "link" : "String"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<alert-definition>
  <device-id>String</device-id>
  <last-modified-time>Date</last-modified-time>
  <created-by-user-name>String</created-by-user-name>
  <users>
    <user>Integer</user>
    <uri>String</uri>
  </users>
  <created-time>Date</created-time>
  <status>Boolean</status>
  <domain-name>String</domain-name>
  <severity>Integer</severity>
  <email-subject>String</email-subject>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <version>Integer</version>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <id>Integer</id>
  <additional-emails>String</additional-emails>
  <description>String</description>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <target>String</target>
  <alertcriteria>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <created-time>Date</created-time>
    <domain-name>String</domain-name>
    <filter-string>String</filter-string>
    <formatted-filter>
      <serialVersionUID>long</serialVersionUID>
      <case-sensitive>boolean</case-sensitive>
      <filter>
        <serialVersionUID>long</serialVersionUID>
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
      </filter>
    </formatted-filter>
    <version>Integer</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <id>Integer</id>
    <aggregation>String</aggregation>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <duration-unit>Integer</duration-unit>
    <duration>Long</duration>
    <domain-id>Integer</domain-id>
    <threshhold>Long</threshhold>
    <uri>String</uri>
  </alertcriteria>
  <moid>String</moid>
  <custom-message>String</custom-message>
  <uri>String</uri>
  <link>String</link>
</alert-definition>
```


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Retrieve All Alert Definitions

Fetches a list of all configured alert definitions.

URI	/api/juniper/seci/alertdefinition-management/alert-definitions
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.alertdefinition-management.alert-definitions+xml;version=1;q=0.01 application/vnd.juniper.seci.alertdefinition-management.alert-definitions+json;version=1;q=0.01
Access-Control	DefaultRead

Sample JSON Output:


```
{
  "alert-definitions" : {
    "alert-definition" : [ {
      "device-id" : "String",
      "last-modified-time" : "Date",
      "created-by-user-name" : "String",
      "created-time" : "Date",
      "status" : "Boolean",
      "domain-name" : "String",
      "email-subject" : "String",
      "severity" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "version" : "Integer",
      "last-modified-by-user-name" : "String",
      "id" : "Integer",
      "additional-emails" : "String",
      "description" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "target" : "String",
      "alertcriteria" : {
        "created-by-user-name" : "String",
        "last-modified-time" : "Date",
        "created-time" : "Date",
        "domain-name" : "String",
        "filter-string" : "String",
        "version" : "Integer",
        "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "id" : "Integer",
```


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```
      "aggregation" : "String",
      "last-modified-by-user-name" : "String",
      "duration-unit" : "Integer",
      "duration" : "Long",
      "domain-id" : "Integer",
      "threshhold" : "Long",
      "uri" : "String"
    },
    "moid" : "String",
    "display-name" : "String",
    "custom-message" : "String",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<alert-definitions>
  <alert-definition>
    <device-id>String</device-id>
    <last-modified-time>Date</last-modified-time>
    <created-by-user-name>String</created-by-user-name>
    <created-time>Date</created-time>
    <status>Boolean</status>
    <domain-name>String</domain-name>
    <email-subject>String</email-subject>
    <severity>Integer</severity>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <version>Integer</version>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <id>Integer</id>
    <additional-emails>String</additional-emails>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <target>String</target>
    <alertcriteria>
      <created-by-user-name>String</created-by-user-name>
      <last-modified-time>Date</last-modified-time>
      <created-time>Date</created-time>
      <domain-name>String</domain-name>
      <filter-string>String</filter-string>
      <version>Integer</version>
      <definition-type>Hidden</definition-type>
      <definition-type>Predefined</definition-type>
      <definition-type>Custom</definition-type>
      <definition-type>All</definition-type>
      <id>Integer</id>
      <aggregation>String</aggregation>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <duration-unit>Integer</duration-unit>
      <duration>Long</duration>
      <domain-id>Integer</domain-id>
      <threshhold>Long</threshhold>
      <uri>String</uri>
    </alertcriteria>
```


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```
    <moid>String</moid>
    <display-name>String</display-name>
    <custom-message>String</custom-message>
    <uri>String</uri>
    <link>String</link>
  </alert-definition>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</alert-definitions>
```

Delete Alert Definition by ID

Deletes a specific alert definition from the system using its Managed Object ID (MOID).

URI	/api/juniper/seci/alertdefinition-management/alert-definitions/{moid}
HTTP method	DELETE
Content-Type	None
Accept-Type	application/vnd.juniper.seci.alertdefinition-management.delete-alert-definition-response+xml;version=1;q=0.01 application/vnd.juniper.seci.alertdefinition-management.delete-alert-definition-response+json;version=1;q=0.01
Access-Control	deleteAlert

Sample JSON Output:

```
{
  "delete-alert-definition-response" : {
    "value" : "Boolean"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<delete-alert-definition-response>
   <value>Boolean</value>
</delete-alert-definition-response>
```


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Search Default Alert Definitions by Pattern

Searches for alert definitions matching a specified pattern.

URI	/api/juniper/seci/alertdefinition-management/alert-definitions/search?pattern=String
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.alertdefinition-management.alert-definitions+xml;version=1;q=0.01 application/vnd.juniper.seci.alertdefinition-management.alert-definitions+json;version=1;q=0.01
Access-Control	DefaultRead

Sample JSON Output:


```
{
  "alert-definitions" : {
    "alert-definition" : [ {
      "device-id" : "String",
      "last-modified-time" : "Date",
      "created-by-user-name" : "String",
      "created-time" : "Date",
      "status" : "Boolean",
      "domain-name" : "String",
      "email-subject" : "String",
      "severity" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "version" : "Integer",
      "last-modified-by-user-name" : "String",
      "id" : "Integer",
      "additional-emails" : "String",
      "description" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "target" : "String",
      "alertcriteria" : {
        "created-by-user-name" : "String",
        "last-modified-time" : "Date",
        "created-time" : "Date",
        "domain-name" : "String",
        "filter-string" : "String",
        "version" : "Integer",
        "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
        "id" : "Integer",
```


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```
      "aggregation" : "String",
      "last-modified-by-user-name" : "String",
      "duration-unit" : "Integer",
      "duration" : "Long",
      "domain-id" : "Integer",
      "threshhold" : "Long",
      "uri" : "String"
    },
    "moid" : "String",
    "display-name" : "String",
    "custom-message" : "String",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<alert-definitions>
  <alert-definition>
    <device-id>String</device-id>
    <last-modified-time>Date</last-modified-time>
    <created-by-user-name>String</created-by-user-name>
    <created-time>Date</created-time>
    <status>Boolean</status>
    <domain-name>String</domain-name>
    <email-subject>String</email-subject>
    <severity>Integer</severity>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <version>Integer</version>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <id>Integer</id>
    <additional-emails>String</additional-emails>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <target>String</target>
    <alertcriteria>
      <created-by-user-name>String</created-by-user-name>
      <last-modified-time>Date</last-modified-time>
      <created-time>Date</created-time>
      <domain-name>String</domain-name>
      <filter-string>String</filter-string>
      <version>Integer</version>
      <definition-type>Hidden</definition-type>
      <definition-type>Predefined</definition-type>
      <definition-type>Custom</definition-type>
      <definition-type>All</definition-type>
      <id>Integer</id>
      <aggregation>String</aggregation>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <duration-unit>Integer</duration-unit>
      <duration>Long</duration>
      <domain-id>Integer</domain-id>
      <threshhold>Long</threshhold>
      <uri>String</uri>
    </alertcriteria>
```


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```
    <moid>String</moid>
    <display-name>String</display-name>
    <custom-message>String</custom-message>
    <uri>String</uri>
    <link>String</link>
  </alert-definition>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</alert-definitions>
```

Retrieve All Alert Definition IDs

Fetches a list of Managed Object IDs (MOIDs) for all configured alert definitions.

URI	/api/juniper/seci/alertdefinition-management/alert-definitions/select-all
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.select-all-ids+xml;version=1;q=0.01 application/vnd.juniper.sd.select-all-ids+json;version=1;q=0.01
Access-Control	DefaultRead

Sample JSON Output:

```
{
  "select-ids" : {
    "select-id" : [ {
      "id" : "Integer",
      "domainId" : "Integer"
    } ],
    "total" : "Integer"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<select-ids>
  <select-id>
    <id>Integer</id>
    <domainId>Integer</domainId>
  </select-id>
  <total>Integer</total>
</select-ids>
```


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Retrieve Infected Host Details by ID

Fetches the detailed information for a specific infected host identified by its unique ID.

URI	/api/juniper/seciinfected-hosts/{id}
HTTP method	GET
Content-Type	application/vnd.juniper.seci.infectedhost+xml;version=1;charset=UTF-8 application/vnd.juniper.seci.infectedhost+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.seci.infectedhost+xml;version=1;q=0.01 application/vnd.juniper.seci.infectedhost+json;version=1;q=0.01
Access-Control	null

Sample JSON Output:

```
{
  "infected-host" : {
    "id" : "int",
    "ipAddr" : "String",
    "action" : "String",
    "quarantineVlan" : "String",
    "endPtMacAddr" : "String",
    "switchName" : "String",
    "interfaceName" : "String",
    "portType" : "String",
    "vlan" : "String",
    "infectedHostStatus" : "String",
    "sites" : [ "String" ],
    "switchId" : "Integer",
    "retryCount" : "Integer",
    "actionStatus" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<infected-host>
   <id>int</id>
   <ipAddr>String</ipAddr>
   <action>String</action>
   <quarantineVlan>String</quarantineVlan>
   <endPtMacAddr>String</endPtMacAddr>
   <switchName>String</switchName>
   <interfaceName>String</interfaceName>
   <portType>String</portType>
   <vlan>String</vlan>
   <infectedHostStatus>String</infectedHostStatus>
```


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```
  <sites>String</sites>
  <switchId>Integer</switchId>
  <retryCount>Integer</retryCount>
  <actionStatus>String</actionStatus>
</infected-host>
```

Update Policy Enforcement Settings

Updates the global or specific settings for policy enforcement.

URI	/api/juniper/seciinfected-hosts/policy-enforcement/settings
HTTP method	POST
Content-Type	application/json application/vnd.juniper.seci.infectedhost+xml;version=1;charset=UTF-8 application/vnd.juniper.seci.infectedhost+json;version=1;charset=UTF-8
Accept-Type	None
Access-Control	null

Sample JSON Input

```
{
  "settings" : {
    "ipAddress" : "String",
    "trackedEndpointsIntervalInMinutes" : "int",
    "restoreOperation" : "boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<settings>
  <ipAddress>String</ipAddress>
  <trackedEndpointsIntervalInMinutes>int</trackedEndpointsIntervalInMinutes>
  <restoreOperation>boolean</restoreOperation>
</settings>
```


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Retrieve Policy Enforcement Settings

Fetches the current configuration settings for policy enforcement.

URI	/api/juniper/seciinfected-hosts/policy-enforcement/settings
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.infectedhost+xml;version=1;q=0.01 application/vnd.juniper.seci.infectedhost+json;version=1;q=0.01
Access-Control	null

Sample JSON Output:

```
{
  "settings" : {
    "ipAddress" : "String",
    "trackedEndpointsIntervalInMinutes" : "int",
    "restoreOperation" : "boolean"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<settings>
   <ipAddress>String</ipAddress>
   <trackedEndpointsIntervalInMinutes>int</trackedEndpointsIntervalInMinutes>
   <restoreOperation>boolean</restoreOperation>
</settings>
```

Modify Specific Alert Instance

Updates the properties of an existing alert instance identified by its Managed Object ID (MOID).

URI	/api/juniper/seci/alert-management/alerts/{moid}

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HTTP method	PUT
Content-Type	application/vnd.juniper.seci.alert-management.alert-ref+xml;version=1;charset=UTF-8 application/vnd.juniper.seci.alert-management.alert-ref+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.seci.alert-management.alert-ref+xml;version=1;q=0.01 application/vnd.juniper.seci.alert-management.alert-ref+json;version=1;q=0.01
Access-Control	null

Sample JSON Input

```
{
  "alert" : {
    "start-time" : "Long",
    "end-time" : "Long",
    "email-subject" : "String",
    "id" : "Integer",
    "aggregation" : "String",
    "corr-drill" : "String",
    "modified-filter-string" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<alert>
   <start-time>Long</start-time>
   <end-time>Long</end-time>
   <email-subject>String</email-subject>
   <id>Integer</id>
   <aggregation>String</aggregation>
   <corr-drill>String</corr-drill>
   <modified-filter-string>String</modified-filter-string>
</alert>
```

Sample JSON Output:

```
{
  "alert" : {
    "start-time" : "Long",
    "end-time" : "Long",
    "email-subject" : "String",
    "id" : "Integer",
    "uri" : "String",
    "aggregation" : "String",
    "corr-drill" : "String",
    "modified-filter-string" : "String"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<alert>
  <start-time>Long</start-time>
  <end-time>Long</end-time>
  <email-subject>String</email-subject>
  <id>Integer</id>
  <uri>String</uri>
  <aggregation>String</aggregation>
  <corr-drill>String</corr-drill>
  <modified-filter-string>String</modified-filter-string>
</alert>
```

Retrieve All Alert Instances

Fetches a list of all active or historical alert instances in the system.

URI	/api/juniper/seci/alert-management/alerts
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.alert-management.alert+xml;version=1;q=0.01 application/vnd.juniper.seci.alert-management.alert+json;version=1;q=0.01
Access-Control	DefaultRead

Sample JSON Output:

```
{
  "alerts" : {
    "alert" : [ {
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "corr-drill" : "String",
      "created-time" : "Date",
      "alert-type" : "String",
      "domain-name" : "String",
      "severity" : "Integer",
      "email-subject" : "String",
      "generated-time" : "Long",
      "end-time" : "Long",
      "version" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "aggregation" : "String",
      "start-time" : "Long",
      "message" : "String",
      "formatted-filter" : {
```


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```
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      }
    },
    "id" : "Integer",
    "last-modified-by-user-name" : "String",
    "definition-name" : "String",
    "source" : { },
    "description" : "String",
    "domain-id" : "Integer",
    "is-acknowledged" : "Boolean",
    "modified-filter-string" : "String",
    "target" : "String",
    "email-recepients" : "String",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<alerts>
  <alert>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <corr-drill>String</corr-drill>
    <created-time>Date</created-time>
    <alert-type>String</alert-type>
    <domain-name>String</domain-name>
    <severity>Integer</severity>
    <email-subject>String</email-subject>
    <generated-time>Long</generated-time>
    <end-time>Long</end-time>
    <version>Integer</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <aggregation>String</aggregation>
    <start-time>Long</start-time>
    <message>String</message>
    <formatted-filter>
      <serialVersionUID>long</serialVersionUID>
      <case-sensitive>boolean</case-sensitive>
      <filter>
        <serialVersionUID>long</serialVersionUID>
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
      </filter>
    </formatted-filter>
    <id>Integer</id>
```


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```
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <definition-name>String</definition-name>
    <source/>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <is-acknowledged>Boolean</is-acknowledged>
    <modified-filter-string>String</modified-filter-string>
    <target>String</target>
    <email-recepients>String</email-recepients>
    <uri>String</uri>
    <link>String</link>
  </alert>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</alerts>
```

Retrieve Single Alert Instance by ID

Fetches the detailed information for a specific alert instance using its Managed Object ID (MOID).

URI	/api/juniper/seci/alert-management/alerts/{mo-id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.alert-management.alert+xml;version=1;q=0.01 application/vnd.juniper.seci.alert-management.alert+json;version=1;q=0.01
Access-Control	DefaultRead

Sample JSON Output:

```
{
  "alert" : {
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "corr-drill" : "String",
    "created-time" : "Date",
    "alert-type" : "String",
    "domain-name" : "String",
    "severity" : "Integer",
    "email-subject" : "String",
    "generated-time" : "Long",
    "end-time" : "Long",
    "version" : "Integer",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "aggregation" : "String",
    "aggregation-attribute" : "String",
```


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```
    "start-time" : "Long",
    "message" : "String",
    "formatted-filter" : {
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      }
    },
    "id" : "Integer",
    "last-modified-by-user-name" : "String",
    "definition-name" : "String",
    "source" : { },
    "description" : "String",
    "domain-id" : "Integer",
    "is-acknowledged" : "Boolean",
    "modified-filter-string" : "String",
    "target" : "String",
    "email-recepients" : "String",
    "uri" : "String",
    "object-type" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<alert>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-time>Date</last-modified-time>
  <corr-drill>String</corr-drill>
  <created-time>Date</created-time>
  <alert-type>String</alert-type>
  <domain-name>String</domain-name>
  <severity>Integer</severity>
  <email-subject>String</email-subject>
  <generated-time>Long</generated-time>
  <end-time>Long</end-time>
  <version>Integer</version>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <aggregation>String</aggregation>
  <aggregation-attribute>String</aggregation-attribute>
  <start-time>Long</start-time>
  <message>String</message>
  <formatted-filter>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
      <serialVersionUID>long</serialVersionUID>
      <key>String</key>
      <operator>String</operator>
      <value>String</value>
    </filter>
  </formatted-filter>
  <id>Integer</id>
```


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```
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <definition-name>String</definition-name>
  <source/>
  <description>String</description>
  <domain-id>Integer</domain-id>
  <is-acknowledged>Boolean</is-acknowledged>
  <modified-filter-string>String</modified-filter-string>
  <target>String</target>
  <email-recepients>String</email-recepients>
  <uri>String</uri>
  <object-type>String</object-type>
</alert>
```

Search Alert Instances by Pattern

Searches for alert instances matching a specified pattern across various attributes.

URI	/api/juniper/seci/alert-management/alerts/search?pattern=String
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.alert-management.alert+json;version=1;q=0.01
Access-Control	null

Sample JSON Output:

```
{
  "alerts" : {
    "alert" : [ {
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "corr-drill" : "String",
      "created-time" : "Date",
      "alert-type" : "String",
      "domain-name" : "String",
      "severity" : "Integer",
      "email-subject" : "String",
      "generated-time" : "Long",
      "end-time" : "Long",
      "version" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "aggregation" : "String",
      "start-time" : "Long",
      "message" : "String",
      "formatted-filter" : {
```


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```
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      }
    },
    "id" : "Integer",
    "last-modified-by-user-name" : "String",
    "definition-name" : "String",
    "source" : { },
    "description" : "String",
    "domain-id" : "Integer",
    "is-acknowledged" : "Boolean",
    "modified-filter-string" : "String",
    "target" : "String",
    "email-recepients" : "String",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<alerts>
  <alert>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <corr-drill>String</corr-drill>
    <created-time>Date</created-time>
    <alert-type>String</alert-type>
    <domain-name>String</domain-name>
    <severity>Integer</severity>
    <email-subject>String</email-subject>
    <generated-time>Long</generated-time>
    <end-time>Long</end-time>
    <version>Integer</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <aggregation>String</aggregation>
    <start-time>Long</start-time>
    <message>String</message>
    <formatted-filter>
      <serialVersionUID>long</serialVersionUID>
      <case-sensitive>boolean</case-sensitive>
      <filter>
        <serialVersionUID>long</serialVersionUID>
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
      </filter>
    </formatted-filter>
    <id>Integer</id>
```


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```
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <definition-name>String</definition-name>
    <source/>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <is-acknowledged>Boolean</is-acknowledged>
    <modified-filter-string>String</modified-filter-string>
    <target>String</target>
    <email-recepients>String</email-recepients>
    <uri>String</uri>
    <link>String</link>
  </alert>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</alerts>
```


Retrieve Alerts within a Specific Time Interval

Fetches all alert instances that occurred within a specified start and end time.

URI	/api/juniper/seci/alert-management/alerts/time-interval?startTime=Long&endTime=Long&count=String
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.alert-management.alert+json;version=1;q=0.01 application/vnd.juniper.seci.alert-management.alert+xml;version=1;q=0.01
Access-Control	null

Sample JSON Output:


```
{
  "alerts" : {
    "alert" : [ {
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "corr-drill" : "String",
      "created-time" : "Date",
      "alert-type" : "String",
      "domain-name" : "String",
      "severity" : "Integer",
      "email-subject" : "String",
      "generated-time" : "Long",
      "end-time" : "Long",
      "version" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "aggregation" : "String",
```


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```
    "start-time" : "Long",
    "message" : "String",
    "formatted-filter" : {
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      }
    },
    "id" : "Integer",
    "last-modified-by-user-name" : "String",
    "definition-name" : "String",
    "source" : { },
    "description" : "String",
    "domain-id" : "Integer",
    "is-acknowledged" : "Boolean",
    "modified-filter-string" : "String",
    "target" : "String",
    "email-recepients" : "String",
    "uri" : "String",
    "link" : "String"
   } ],
   "uri" : "String",
   "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<alerts>
  <alert>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <corr-drill>String</corr-drill>
    <created-time>Date</created-time>
    <alert-type>String</alert-type>
    <domain-name>String</domain-name>
    <severity>Integer</severity>
    <email-subject>String</email-subject>
    <generated-time>Long</generated-time>
    <end-time>Long</end-time>
    <version>Integer</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <aggregation>String</aggregation>
    <start-time>Long</start-time>
    <message>String</message>
    <formatted-filter>
      <serialVersionUID>long</serialVersionUID>
      <case-sensitive>boolean</case-sensitive>
      <filter>
        <serialVersionUID>long</serialVersionUID>
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
```


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```
      </filter>
    </formatted-filter>
    <id>Integer</id>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <definition-name>String</definition-name>
    <source/>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <is-acknowledged>Boolean</is-acknowledged>
    <modified-filter-string>String</modified-filter-string>
    <target>String</target>
    <email-recepients>String</email-recepients>
    <uri>String</uri>
    <link>String</link>
  </alert>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</alerts>
```

Retrieve All Available Event Filters

Fetches a list of all event filters accessible to the current user, with optional filtering.

URI	/api/juniper/seci/filter-management/filters/all-filters?skipEmpty=boolean&tag=String
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.filter-management.event-filter-refs+xml;version=1;q=0.01 application/vnd.juniper.seci.filter-management.event-filter-refs+json;version=1;q=0.01
Access-Control	null

Sample JSON Output:

```
{
  "event-filters" : {
    "event-filter" : [ {
      "id" : "Integer",
      "filter-name" : "String",
      "moid" : "String",
      "filter-string" : "String",
      "filter-description" : "String",
      "formatted-filter" : {
        "serialVersionUID" : "long",
```


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```
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      }
    },
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "duration" : "Long",
    "conditions" : {
      "condition" : [ {
        "field" : "String",
        "selected-operator" : "String",
        "next-conditional-operator" : "String",
        "operators" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "aggregation" : "String",
    "time-unit" : "Integer",
    "columnnames" : "String",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<event-filters>
  <event-filter>
    <id>Integer</id>
    <filter-name>String</filter-name>
    <moid>String</moid>
    <filter-string>String</filter-string>
    <filter-description>String</filter-description>
    <formatted-filter>
      <serialVersionUID>long</serialVersionUID>
      <case-sensitive>boolean</case-sensitive>
      <filter>
        <serialVersionUID>long</serialVersionUID>
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
      </filter>
    </formatted-filter>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <duration>Long</duration>
    <conditions>
      <condition>
        <field>String</field>
        <selected-operator>String</selected-operator>
        <next-conditional-operator>String</next-conditional-operator>
```


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```
        <operators>String</operators>
        <uri>String</uri>
      </condition>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </conditions>
    <aggregation>String</aggregation>
    <time-unit>Integer</time-unit>
    <columnnames>String</columnnames>
    <uri>String</uri>
    <link>String</link>
  </event-filter>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</event-filters>
```

Search All Available Event Filters

Searches for event filters accessible to the current user that match a specified pattern.

URI	/api/juniper/seci/filter-management/filters/all-filters/search?pattern=String
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.filter-management.event-filter-refs+xml;version=1;q=0.01 application/vnd.juniper.seci.filter-management.event-filter-refs+json;version=1;q=0.01
Access-Control	null

Sample JSON Output:

```
{
  "event-filters" : {
    "event-filter" : [ {
      "id" : "Integer",
      "filter-name" : "String",
      "moid" : "String",
      "filter-string" : "String",
      "filter-description" : "String",
      "formatted-filter" : {
        "serialVersionUID" : "long",
        "case-sensitive" : "boolean",
        "and" : [ ],
        "or" : [ ],
```


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```
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      }
    },
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "duration" : "Long",
    "conditions" : {
      "condition" : [ {
        "field" : "String",
        "selected-operator" : "String",
        "next-conditional-operator" : "String",
        "operators" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "aggregation" : "String",
    "time-unit" : "Integer",
    "columnnames" : "String",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<event-filters>
  <event-filter>
    <id>Integer</id>
    <filter-name>String</filter-name>
    <moid>String</moid>
    <filter-string>String</filter-string>
    <filter-description>String</filter-description>
    <formatted-filter>
      <serialVersionUID>long</serialVersionUID>
      <case-sensitive>boolean</case-sensitive>
      <filter>
        <serialVersionUID>long</serialVersionUID>
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
      </filter>
    </formatted-filter>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <duration>Long</duration>
    <conditions>
      <condition>
        <field>String</field>
        <selected-operator>String</selected-operator>
        <next-conditional-operator>String</next-conditional-operator>
        <operators>String</operators>
        <uri>String</uri>
      </condition>
```


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```
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </conditions>
    <aggregation>String</aggregation>
    <time-unit>Integer</time-unit>
    <columnnames>String</columnnames>
    <uri>String</uri>
    <link>String</link>
  </event-filter>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</event-filters>
```

Retrieve Default Event Filters

Fetches a list of all pre-defined, default event filters.

URI	/api/juniper/seci/filter-management/filters/default-filters
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.filter-management.event-filter-refs+xml;version=1;q=0.01 application/vnd.juniper.seci.filter-management.event-filter-refs+json;version=1;q=0.01
Access-Control	null

Sample JSON Output:

```
{
  "event-filters" : {
    "event-filter" : [ {
      "id" : "Integer",
      "filter-name" : "String",
      "moid" : "String",
      "filter-string" : "String",
      "filter-description" : "String",
      "formatted-filter" : {
        "serialVersionUID" : "long",
        "case-sensitive" : "boolean",
        "and" : [ ],
        "or" : [ ],
        "not" : [ ],
        "filter" : {
          "serialVersionUID" : "long",
```


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```
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      }
    },
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "duration" : "Long",
    "conditions" : {
      "condition" : [ {
        "field" : "String",
        "selected-operator" : "String",
        "next-conditional-operator" : "String",
        "operators" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "aggregation" : "String",
    "time-unit" : "Integer",
    "columnnames" : "String",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<event-filters>
  <event-filter>
    <id>Integer</id>
    <filter-name>String</filter-name>
    <moid>String</moid>
    <filter-string>String</filter-string>
    <filter-description>String</filter-description>
    <formatted-filter>
      <serialVersionUID>long</serialVersionUID>
      <case-sensitive>boolean</case-sensitive>
      <filter>
        <serialVersionUID>long</serialVersionUID>
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
      </filter>
    </formatted-filter>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <duration>Long</duration>
    <conditions>
      <condition>
        <field>String</field>
        <selected-operator>String</selected-operator>
        <next-conditional-operator>String</next-conditional-operator>
        <operators>String</operators>
        <uri>String</uri>
      </condition>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </conditions>
```


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```
    <aggregation>String</aggregation>
    <time-unit>Integer</time-unit>
    <columnnames>String</columnnames>
    <uri>String</uri>
    <link>String</link>
  </event-filter>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</event-filters>
```

Retrieve My Event Filters

Fetches a list of event filters created and owned by the current user.

URI	/api/juniper/seci/filter-management/filters/my-filters
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.filter-management.event-filter-refs+xml;version=1;q=0.01 application/vnd.juniper.seci.filter-management.event-filter-refs+json;version=1;q=0.01
Access-Control	null

Sample JSON Output:

```
{
  "event-filters" : {
    "event-filter" : [ {
      "id" : "Integer",
      "filter-name" : "String",
      "moid" : "String",
      "filter-string" : "String",
      "filter-description" : "String",
      "formatted-filter" : {
        "serialVersionUID" : "long",
        "case-sensitive" : "boolean",
        "and" : [ ],
        "or" : [ ],
        "not" : [ ],
        "filter" : {
          "serialVersionUID" : "long",
          "key" : "String",
          "operator" : "String",
          "value" : [ "String" ]
```


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```
      }
    },
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "duration" : "Long",
    "conditions" : {
      "condition" : [ {
        "field" : "String",
        "selected-operator" : "String",
        "next-conditional-operator" : "String",
        "operators" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "aggregation" : "String",
    "time-unit" : "Integer",
    "columnnames" : "String",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<event-filters>
  <event-filter>
    <id>Integer</id>
    <filter-name>String</filter-name>
    <moid>String</moid>
    <filter-string>String</filter-string>
    <filter-description>String</filter-description>
    <formatted-filter>
      <serialVersionUID>long</serialVersionUID>
      <case-sensitive>boolean</case-sensitive>
      <filter>
        <serialVersionUID>long</serialVersionUID>
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
      </filter>
    </formatted-filter>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <duration>Long</duration>
    <conditions>
      <condition>
        <field>String</field>
        <selected-operator>String</selected-operator>
        <next-conditional-operator>String</next-conditional-operator>
        <operators>String</operators>
        <uri>String</uri>
      </condition>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </conditions>
    <aggregation>String</aggregation>
    <time-unit>Integer</time-unit>
    <columnnames>String</columnnames>
```


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```
    <uri>String</uri>
    <link>String</link>
  </event-filter>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</event-filters>
```

Search Default Event Filters

Searches for pre-defined, default event filters matching a specified pattern.

URI	/api/juniper/seci/filter-management/filters/default-filters/search?pattern=String
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.filter-management.event-filter-refs+xml;version=1;q=0.01 application/vnd.juniper.seci.filter-management.event-filter-refs+json;version=1;q=0.01
Access-Control	null

Sample JSON Output:

```
{
  "event-filters" : {
    "event-filter" : [ {
      "id" : "Integer",
      "filter-name" : "String",
      "moid" : "String",
      "filter-string" : "String",
      "filter-description" : "String",
      "formatted-filter" : {
        "serialVersionUID" : "long",
        "case-sensitive" : "boolean",
        "and" : [ ],
        "or" : [ ],
        "not" : [ ],
        "filter" : {
          "serialVersionUID" : "long",
          "key" : "String",
          "operator" : "String",
          "value" : [ "String" ]
```


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```
      }
    },
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "duration" : "Long",
    "conditions" : {
      "condition" : [ {
        "field" : "String",
        "selected-operator" : "String",
        "next-conditional-operator" : "String",
        "operators" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "aggregation" : "String",
    "time-unit" : "Integer",
    "columnnames" : "String",
    "uri" : "String",
    "link" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<event-filters>
  <event-filter>
    <id>Integer</id>
    <filter-name>String</filter-name>
    <moid>String</moid>
    <filter-string>String</filter-string>
    <filter-description>String</filter-description>
    <formatted-filter>
      <serialVersionUID>long</serialVersionUID>
      <case-sensitive>boolean</case-sensitive>
      <filter>
        <serialVersionUID>long</serialVersionUID>
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
      </filter>
    </formatted-filter>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <duration>Long</duration>
    <conditions>
      <condition>
        <field>String</field>
        <selected-operator>String</selected-operator>
        <next-conditional-operator>String</next-conditional-operator>
        <operators>String</operators>
        <uri>String</uri>
      </condition>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </conditions>
    <aggregation>String</aggregation>
    <time-unit>Integer</time-unit>
    <columnnames>String</columnnames>
```


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```
    <uri>String</uri>
    <link>String</link>
  </event-filter>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</event-filters>
```

Search My Event Filters

Searches for event filters created and owned by the current user that match a specified pattern.

URI	/api/juniper/seci/filter-management/filters/my-filters/search?pattern=String
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.filter-management.event-filter-refs+xml;version=1;q=0.01 application/vnd.juniper.seci.filter-management.event-filter-refs+json;version=1;q=0.01
Access-Control	null

Sample JSON Output:

```
{
  "event-filters" : {
    "event-filter" : [ {
      "id" : "Integer",
      "filter-name" : "String",
      "moid" : "String",
      "filter-string" : "String",
      "filter-description" : "String",
      "formatted-filter" : {
        "serialVersionUID" : "long",
        "case-sensitive" : "boolean",
        "and" : [ ],
        "or" : [ ],
        "not" : [ ],
        "filter" : {
          "serialVersionUID" : "long",
          "key" : "String",
          "operator" : "String",
          "value" : [ "String" ]
```


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```
      }
     },
     "created-by-user-name" : "String",
     "last-modified-time" : "Date",
     "duration" : "Long",
     "conditions" : {
      "condition" : [ {
       "field" : "String",
       "selected-operator" : "String",
       "next-conditional-operator" : "String",
       "operators" : "String",
       "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
     },
     "aggregation" : "String",
     "time-unit" : "Integer",
     "columnnames" : "String",
     "uri" : "String",
     "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<event-filters>
  <event-filter>
    <id>Integer</id>
    <filter-name>String</filter-name>
    <moid>String</moid>
    <filter-string>String</filter-string>
    <filter-description>String</filter-description>
    <formatted-filter>
      <serialVersionUID>long</serialVersionUID>
      <case-sensitive>boolean</case-sensitive>
      <filter>
        <serialVersionUID>long</serialVersionUID>
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
      </filter>
    </formatted-filter>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <duration>Long</duration>
    <conditions>
      <condition>
        <field>String</field>
        <selected-operator>String</selected-operator>
        <next-conditional-operator>String</next-conditional-operator>
        <operators>String</operators>
        <uri>String</uri>
      </condition>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </conditions>
    <aggregation>String</aggregation>
    <time-unit>Integer</time-unit>
    <columnnames>String</columnnames>
```


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```
    <uri>String</uri>
    <link>String</link>
  </event-filter>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</event-filters>
```

Create New Event Filter

Creates a new event filter definition in the system.

URI	/api/juniper/seci/filter-management/filters
HTTP method	POST
Content-Type	application/vnd.juniper.seci.filter-management.event-filter+xml;version=1;charset=UTF-8 application/vnd.juniper.seci.filter-management.event-filter+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.seci.filter-management.event-filter+xml;version=1;q=0.01 application/vnd.juniper.seci.filter-management.event-filter+json;version=1;q=0.01
Access-Control	null

Sample JSON Input

```
{
  "event-filter" : {
    "id" : "Integer",
    "time-unit" : "Integer",
    "moid" : "String",
    "filter-name" : "String",
    "column-names-list" : {
      "column-names-lists" : [ "trafficsessionid", "time", "size", "medium", "device_type", "device_class",
"header_id", "ip_addr", "result_code", "event_desc", "level", "msg_id", "event_cat_name", "device_ip", "did",
"rid", "AttackSeverity", "OutboundPackets", "OutboundBytes", "ServerPacketsRcvd", "ServerBytesRcvd",
"InboundPackets", "InboundBytes", "ClientPacketsSent", "ClientBytesSent", "LsysName", "Action",
"ActionDetail", "SourceInterface", "DestinationInterface", "ProtocolName", "NATSourceIP",
"NATDestinationIP", "NATSourcePort", "NATDestinationPort", "Roles", "ICMP_Type", "Reason",
"HostName", "ProfileName", "InterfaceName", "RuleSetName", "Argument1", "Message", "FeedName",
"CategoryName", "SubCategoryName", "NestedAppName", "SourceIpv6", "DestinationIpv6", "SourceIP",
"DestinationIP", "SourcePort", "DestinationPort", "Eventname", "EventCategory", "Username", "Appname",
"Servicename", "LogSource",
```


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"LogSourceIpv6", "Protocol", "Attackname", "Sourcezone", "Destinationzone", "Policyname", "Rulename", "RulenameNatsrc", "RulenameNatdst", "LogicalSystemname", "LogId", "DeviceID", "DomainID", "VPNName", "Localaddress", "Remoteaddress", "Gatewayname", "Tunnelid", "Localikeid", "Peerikeid", "Url", "UTMCategoryOrVirusName", "ErrorMessage", "ObjectName", "PathName", "Time", "AND", "OR", "and", "or"],
      "totalSize" : "Integer"
    },
    "filter-description" : "String",
    "visibility" : ["PUBLIC", "PRIVATE"],
    "filter-created-time" : "Long",
    "endtime" : "Long",
    "filter-type" : ["DEFAULT", "NONDEFAULT"],
    "filter-tags" : {
      "filter-tag" : ["String"],
      "totalSize" : "Integer"
    },
    "duration" : "Long",
    "conditions" : {
      "condition" : [{
        "field" : "String",
        "selected-operator" : "String",
        "next-conditional-operator" : "String",
        "operators" : "String"
      }],
      "totalSize" : "Integer"
    },
    "aggregation" : "String",
    "definition-type" : ["Hidden", "Predefined", "Custom", "All"],
    "columnnames" : "String",
    "filter-string" : "String",
    "filter-updated-time" : "Long",
    "starttime" : "Long",
    "columnwidth" : "String",
    "formatted-filter" : {
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : ["String"]
      }
    },
    "is-deletable" : "Boolean",
    "graph-type" : ["BAR", "PIE", "TIMESERIES", "LIST"]
  }
}

Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<event-filter>
  <id>Integer</id>
  <time-unit>Integer</time-unit>
  <moid>String</moid>
  <filter-name>String</filter-name>
  <column-names-list>
    <column-names-lists>trafficsessionid</column-names-lists>
    <column-names-lists>time</column-names-lists>
    <column-names-lists>size</column-names-lists>
    <column-names-lists>medium</column-names-lists>
    <column-names-lists>device_type</column-names-lists>
```


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<column-names-lists>device_class</column-names-lists>
<column-names-lists>header_id</column-names-lists>
<column-names-lists>ip_addr</column-names-lists>
<column-names-lists>result_code</column-names-lists>
<column-names-lists>event_desc</column-names-lists>
<column-names-lists>level</column-names-lists>
<column-names-lists>msg_id</column-names-lists>
<column-names-lists>event_cat_name</column-names-lists>
<column-names-lists>device_ip</column-names-lists>
<column-names-lists>did</column-names-lists>
<column-names-lists>rid</column-names-lists>
<column-names-lists>AttackSeverity</column-names-lists>
<column-names-lists>OutboundPackets</column-names-lists>
<column-names-lists>OutboundBytes</column-names-lists>
<column-names-lists>ServerPacketsRcvd</column-names-lists>
<column-names-lists>ServerBytesRcvd</column-names-lists>
<column-names-lists>InboundPackets</column-names-lists>
<column-names-lists>InboundBytes</column-names-lists>
<column-names-lists>ClientPacketsSent</column-names-lists>
<column-names-lists>ClientBytesSent</column-names-lists>
<column-names-lists>LsysName</column-names-lists>
<column-names-lists>Action</column-names-lists>
<column-names-lists>ActionDetail</column-names-lists>
<column-names-lists>SourceInterface</column-names-lists>
<column-names-lists>DestinationInterface</column-names-lists>
<column-names-lists>ProtocolName</column-names-lists>
<column-names-lists>NATSourceIP</column-names-lists>
<column-names-lists>NATDestinationIP</column-names-lists>
<column-names-lists>NATSourcePort</column-names-lists>
<column-names-lists>NATDestinationPort</column-names-lists>
<column-names-lists>Roles</column-names-lists>
<column-names-lists>ICMP_Type</column-names-lists>
<column-names-lists>Reason</column-names-lists>
<column-names-lists>HostName</column-names-lists>
<column-names-lists>ProfileName</column-names-lists>
<column-names-lists>InterfaceName</column-names-lists>
<column-names-lists>RuleSetName</column-names-lists>
<column-names-lists>Argument1</column-names-lists>
<column-names-lists>Message</column-names-lists>
<column-names-lists>FeedName</column-names-lists>
<column-names-lists>CategoryName</column-names-lists>
<column-names-lists>SubCategoryName</column-names-lists>
<column-names-lists>NestedAppName</column-names-lists>
<column-names-lists>SourceIpv6</column-names-lists>
<column-names-lists>DestinationIpv6</column-names-lists>
<column-names-lists>SourceIP</column-names-lists>
<column-names-lists>DestinationIP</column-names-lists>
<column-names-lists>SourcePort</column-names-lists>
<column-names-lists>DestinationPort</column-names-lists>
<column-names-lists>Eventname</column-names-lists>
<column-names-lists>EventCategory</column-names-lists>
<column-names-lists>Username</column-names-lists>
<column-names-lists>Appname</column-names-lists>
<column-names-lists>Servicename</column-names-lists>
<column-names-lists>LogSource</column-names-lists>
<column-names-lists>LogSourceIpv6</column-names-lists>
<column-names-lists>Protocol</column-names-lists>
<column-names-lists>Attackname</column-names-lists>
<column-names-lists>Sourcezone</column-names-lists>
<column-names-lists>Destinationzone</column-names-lists>
<column-names-lists>Policyname</column-names-lists>
<column-names-lists>Rulename</column-names-lists>
<column-names-lists>RulenameNatsrc</column-names-lists>
<column-names-lists>RulenameNatdst</column-names-lists>

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```
    <column-names-lists>LogicalSystemname</column-names-lists>
    <column-names-lists>LogId</column-names-lists>
    <column-names-lists>DeviceID</column-names-lists>
    <column-names-lists>DomainID</column-names-lists>
    <column-names-lists>VPNName</column-names-lists>
    <column-names-lists>Localaddress</column-names-lists>
    <column-names-lists>Remoteaddress</column-names-lists>
    <column-names-lists>Gatewayname</column-names-lists>
    <column-names-lists>Tunnelid</column-names-lists>
    <column-names-lists>Localikeid</column-names-lists>
    <column-names-lists>Peerikeid</column-names-lists>
    <column-names-lists>Url</column-names-lists>
    <column-names-lists>UTMCategoryOrVirusName</column-names-lists>
    <column-names-lists>ErrorMessage</column-names-lists>
    <column-names-lists>ObjectName</column-names-lists>
    <column-names-lists>PathName</column-names-lists>
    <column-names-lists>Time</column-names-lists>
    <column-names-lists>AND</column-names-lists>
    <column-names-lists>OR</column-names-lists>
    <column-names-lists>and</column-names-lists>
    <column-names-lists>or</column-names-lists>
    <totalSize>Integer</totalSize>
</column-names-list>
<filter-description>String</filter-description>
<visibility>PUBLIC</visibility>
<visibility>PRIVATE</visibility>
<filter-created-time>Long</filter-created-time>
<endtime>Long</endtime>
<filter-type>DEFAULT</filter-type>
<filter-type>NONDEFAULT</filter-type>
<filter-tags>
    <filter-tag>String</filter-tag>
    <totalSize>Integer</totalSize>
</filter-tags>
<duration>Long</duration>
<conditions>
    <condition>
        <field>String</field>
        <selected-operator>String</selected-operator>
        <next-conditional-operator>String</next-conditional-operator>
        <operators>String</operators>
    </condition>
    <totalSize>Integer</totalSize>
</conditions>
<aggregation>String</aggregation>
<definition-type>Hidden</definition-type>
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
<definition-type>All</definition-type>
<columnnames>String</columnnames>
<filter-string>String</filter-string>
<filter-updated-time>Long</filter-updated-time>
<starttime>Long</starttime>
<columnwidth>String</columnwidth>
<formatted-filter>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
        <serialVersionUID>long</serialVersionUID>
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
    </filter>
</formatted-filter>
```


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```
  <is-deletable>Boolean</is-deletable>
  <graph-type>BAR</graph-type>
  <graph-type>PIE</graph-type>
  <graph-type>TIMESERIES</graph-type>
  <graph-type>LIST</graph-type>
</event-filter>
```

Sample JSON Output:


```
{
  "event-filter" : {
    "id" : "Integer",
    "time-unit" : "Integer",
    "moid" : "String",
    "filter-name" : "String",
    "column-names-list" : {
      "column-names-lists" : [ "trafficsessionid", "time", "size", "medium", "device_type", "device_class",
"header_id", "ip_addr", "result_code", "event_desc", "level", "msg_id", "event_cat_name", "device_ip", "did",
"rid", "AttackSeverity", "OutboundPackets", "OutboundBytes", "ServerPacketsRcvd", "ServerBytesRcvd",
"InboundPackets", "InboundBytes", "ClientPacketsSent", "ClientBytesSent", "LsysName", "Action",
"ActionDetail", "SourceInterface", "DestinationInterface", "ProtocolName", "NATSourceIP",
"NATDestinationIP", "NATSourcePort", "NATDestinationPort", "Roles", "ICMP_Type", "Reason",
"HostName", "ProfileName", "InterfaceName", "RuleSetName", "Argument1", "Message", "FeedName",
"CategoryName", "SubCategoryName", "NestedAppName", "SourceIpv6", "DestinationIpv6", "SourceIP",
"DestinationIP", "SourcePort", "DestinationPort", "Eventname", "EventCategory", "Username", "Appname",
"Servicename", "LogSource", "LogSourceIpv6", "Protocol", "Attackname", "Sourcezone", "Destinationzone",
"Policyname", "Rulename", "RulenameNatsrc", "RulenameNatdst", "LogicalSystemname", "LogId",
"DeviceID", "DomainID", "VPNName", "Localaddress", "Remoteaddress", "Gatewayname", "Tunnelid",
"Localikeid", "Peerikeid", "Url", "UTMCategoryOrVirusName", "ErrorMessage", "ObjectName", "PathName",
"Time", "AND", "OR", "and", "or" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "filter-description" : "String",
    "visibility" : [ "PUBLIC", "PRIVATE" ],
    "filter-created-time" : "Long",
    "endtime" : "Long",
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "filter-type" : [ "DEFAULT", "NONDEFAULT" ],
    "filter-tags" : {
      "filter-tag" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "duration" : "Long",
    "conditions" : {
      "condition" : [ {
        "field" : "String",
        "selected-operator" : "String",
        "next-conditional-operator" : "String",
        "operators" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "aggregation" : "String",
    "last-modified-by-user-name" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "columnnames" : "String",
```


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```
    "filter-string" : "String",
    "filter-updated-time" : "Long",
    "created-time" : "Date",
    "starttime" : "Long",
    "columnwidth" : "String",
    "formatted-filter" : {
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      }
    },
    "is-deletable" : "Boolean",
    "graph-type" : [ "BAR", "PIE", "TIMESERIES", "LIST" ],
    "uri" : "String",
    "link" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<event-filter>
  <id>Integer</id>
  <time-unit>Integer</time-unit>
  <moid>String</moid>
  <filter-name>String</filter-name>
  <column-names-list>
    <column-names-lists>trafficsessionid</column-names-lists>
    <column-names-lists>time</column-names-lists>
    <column-names-lists>size</column-names-lists>
    <column-names-lists>medium</column-names-lists>
    <column-names-lists>device_type</column-names-lists>
    <column-names-lists>device_class</column-names-lists>
    <column-names-lists>header_id</column-names-lists>
    <column-names-lists>ip_addr</column-names-lists>
    <column-names-lists>result_code</column-names-lists>
    <column-names-lists>event_desc</column-names-lists>
    <column-names-lists>level</column-names-lists>
    <column-names-lists>msg_id</column-names-lists>
    <column-names-lists>event_cat_name</column-names-lists>
    <column-names-lists>device_ip</column-names-lists>
    <column-names-lists>did</column-names-lists>
    <column-names-lists>rid</column-names-lists>
    <column-names-lists>AttackSeverity</column-names-lists>
    <column-names-lists>OutboundPackets</column-names-lists>
    <column-names-lists>OutboundBytes</column-names-lists>
    <column-names-lists>ServerPacketsRcvd</column-names-lists>
    <column-names-lists>ServerBytesRcvd</column-names-lists>
    <column-names-lists>InboundPackets</column-names-lists>
    <column-names-lists>InboundBytes</column-names-lists>
    <column-names-lists>ClientPacketsSent</column-names-lists>
    <column-names-lists>ClientBytesSent</column-names-lists>
    <column-names-lists>LsysName</column-names-lists>
    <column-names-lists>Action</column-names-lists>
    <column-names-lists>ActionDetail</column-names-lists>
    <column-names-lists>SourceInterface</column-names-lists>
    <column-names-lists>DestinationInterface</column-names-lists>
```


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```
    <column-names-lists>ProtocolName</column-names-lists>
    <column-names-lists>NATSourceIP</column-names-lists>
    <column-names-lists>NATDestinationIP</column-names-lists>
    <column-names-lists>NATSourcePort</column-names-lists>
    <column-names-lists>NATDestinationPort</column-names-lists>
    <column-names-lists>Roles</column-names-lists>
    <column-names-lists>ICMP_Type</column-names-lists>
    <column-names-lists>Reason</column-names-lists>
    <column-names-lists>HostName</column-names-lists>
    <column-names-lists>ProfileName</column-names-lists>
    <column-names-lists>InterfaceName</column-names-lists>
    <column-names-lists>RuleSetName</column-names-lists>
    <column-names-lists>Argument1</column-names-lists>
    <column-names-lists>Message</column-names-lists>
    <column-names-lists>FeedName</column-names-lists>
    <column-names-lists>CategoryName</column-names-lists>
    <column-names-lists>SubCategoryName</column-names-lists>
    <column-names-lists>NestedAppName</column-names-lists>
    <column-names-lists>SourceIpv6</column-names-lists>
    <column-names-lists>DestinationIpv6</column-names-lists>
    <column-names-lists>SourceIP</column-names-lists>
    <column-names-lists>DestinationIP</column-names-lists>
    <column-names-lists>SourcePort</column-names-lists>
    <column-names-lists>DestinationPort</column-names-lists>
    <column-names-lists>Eventname</column-names-lists>
    <column-names-lists>EventCategory</column-names-lists>
    <column-names-lists>Username</column-names-lists>
    <column-names-lists>Appname</column-names-lists>
    <column-names-lists>Servicename</column-names-lists>
    <column-names-lists>LogSource</column-names-lists>
    <column-names-lists>LogSourceIpv6</column-names-lists>
    <column-names-lists>Protocol</column-names-lists>
    <column-names-lists>Attackname</column-names-lists>
    <column-names-lists>Sourcezone</column-names-lists>
    <column-names-lists>Destinationzone</column-names-lists>
    <column-names-lists>Policyname</column-names-lists>
    <column-names-lists>Rulename</column-names-lists>
    <column-names-lists>RulenameNatsrc</column-names-lists>
    <column-names-lists>RulenameNatdst</column-names-lists>
    <column-names-lists>LogicalSystemname</column-names-lists>
    <column-names-lists>LogId</column-names-lists>
    <column-names-lists>DeviceID</column-names-lists>
    <column-names-lists>DomainID</column-names-lists>
    <column-names-lists>VPNName</column-names-lists>
    <column-names-lists>Localaddress</column-names-lists>
    <column-names-lists>Remoteaddress</column-names-lists>
    <column-names-lists>Gatewayname</column-names-lists>
    <column-names-lists>Tunnelid</column-names-lists>
    <column-names-lists>Localikeid</column-names-lists>
    <column-names-lists>Peerikeid</column-names-lists>
    <column-names-lists>Url</column-names-lists>
    <column-names-lists>UTMCategoryOrVirusName</column-names-lists>
    <column-names-lists>ErrorMessage</column-names-lists>
    <column-names-lists>ObjectName</column-names-lists>
    <column-names-lists>PathName</column-names-lists>
    <column-names-lists>Time</column-names-lists>
    <column-names-lists>AND</column-names-lists>
    <column-names-lists>OR</column-names-lists>
    <column-names-lists>and</column-names-lists>
    <column-names-lists>or</column-names-lists>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </column-names-list>
  <filter-description>String</filter-description>
```


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```
<visibility>PUBLIC</visibility>
<visibility>PRIVATE</visibility>
<filter-created-time>Long</filter-created-time>
<endtime>Long</endtime>
<created-by-user-name>String</created-by-user-name>
<last-modified-time>Date</last-modified-time>
<filter-type>DEFAULT</filter-type>
<filter-type>NONDEFAULT</filter-type>
<filter-tags>
  <filter-tag>String</filter-tag>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</filter-tags>
<duration>Long</duration>
<conditions>
  <condition>
    <field>String</field>
    <selected-operator>String</selected-operator>
    <next-conditional-operator>String</next-conditional-operator>
    <operators>String</operators>
    <uri>String</uri>
  </condition>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</conditions>
<aggregation>String</aggregation>
<last-modified-by-user-name>String</last-modified-by-user-name>
<definition-type>Hidden</definition-type>
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
<definition-type>All</definition-type>
<columnnames>String</columnnames>
<filter-string>String</filter-string>
<filter-updated-time>Long</filter-updated-time>
<created-time>Date</created-time>
<starttime>Long</starttime>
<columnwidth>String</columnwidth>
<formatted-filter>
  <serialVersionUID>long</serialVersionUID>
  <case-sensitive>boolean</case-sensitive>
  <filter>
    <serialVersionUID>long</serialVersionUID>
    <key>String</key>
    <operator>String</operator>
    <value>String</value>
  </filter>
</formatted-filter>
<is-deletable>Boolean</is-deletable>
<graph-type>BAR</graph-type>
<graph-type>PIE</graph-type>
<graph-type>TIMESERIES</graph-type>
<graph-type>LIST</graph-type>
<uri>String</uri>
<link>String</link>
</event-filter>
```

Update Existing Event Filter

Updates the configuration of an existing event filter identified by its ID.

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URI	/api/juniper/seci/filter-management/filters/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.seci.filter-management.event-filter+xml;version=1;charset=UTF-8 application/vnd.juniper.seci.filter-management.event-filter+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.seci.filter-management.event-filter+xml;version=1;q=0.01 application/vnd.juniper.seci.filter-management.event-filter+json;version=1;q=0.01
Access-Control	null

Sample JSON Input


```
{
  "event-filter" : {
    "id" : "Integer",
    "time-unit" : "Integer",
    "moid" : "String",
    "filter-name" : "String",
    "column-names-list" : {
      "column-names-lists" : [ "trafficsessionid", "time", "size", "medium", "device_type", "device_class",
"header_id", "ip_addr", "result_code", "event_desc", "level", "msg_id", "event_cat_name", "device_ip", "did",
"rid", "AttackSeverity", "OutboundPackets", "OutboundBytes", "ServerPacketsRcvd", "ServerBytesRcvd",
"InboundPackets", "InboundBytes", "ClientPacketsSent", "ClientBytesSent", "LsysName", "Action",
"ActionDetail", "SourceInterface", "DestinationInterface", "ProtocolName", "NATSourceIP",
"NATDestinationIP", "NATSourcePort", "NATDestinationPort", "Roles", "ICMP_Type", "Reason",
"HostName", "ProfileName", "InterfaceName", "RuleSetName", "Argument1", "Message", "FeedName",
"CategoryName", "SubCategoryName", "NestedAppName", "SourceIpv6", "DestinationIpv6", "SourceIP",
"DestinationIP", "SourcePort", "DestinationPort", "Eventname", "EventCategory", "Username", "Appname",
"Servicename", "LogSource", "LogSourceIpv6", "Protocol", "Attackname", "Sourcezone", "Destinationzone",
"Policyname", "Rulename", "RulenameNatsrc", "RulenameNatdst", "LogicalSystemname", "LogId",
"DeviceID", "DomainID", "VPNName", "Localaddress", "Remoteaddress", "Gatewayname", "Tunnelid",
"Localikeid", "Peerikeid", "Url", "UTMCategoryOrVirusName", "ErrorMessage", "ObjectName", "PathName",
"Time", "AND", "OR", "and", "or" ],
      "totalSize" : "Integer"
    },
    "filter-description" : "String",
    "visibility" : [ "PUBLIC", "PRIVATE" ],
    "filter-created-time" : "Long",
    "endtime" : "Long",
    "filter-type" : [ "DEFAULT", "NONDEFAULT" ],
    "filter-tags" : {
      "filter-tag" : [ "String" ],
      "totalSize" : "Integer"
    },
    "duration" : "Long",
    "conditions" : {
```


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```
    "condition" : [ {
      "field" : "String",
      "selected-operator" : "String",
      "next-conditional-operator" : "String",
      "operators" : "String"
    } ],
    "totalSize" : "Integer"
  },
  "aggregation" : "String",
  "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "columnnames" : "String",
  "filter-string" : "String",
  "filter-updated-time" : "Long",
  "starttime" : "Long",
  "columnwidth" : "String",
  "formatted-filter" : {
    "serialVersionUID" : "long",
    "case-sensitive" : "boolean",
    "and" : [ ],
    "or" : [ ],
    "not" : [ ],
    "filter" : {
      "serialVersionUID" : "long",
      "key" : "String",
      "operator" : "String",
      "value" : [ "String" ]
    }
  },
  "is-deletable" : "Boolean",
  "graph-type" : [ "BAR", "PIE", "TIMESERIES", "LIST" ]
 }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<event-filter>
  <id>Integer</id>
  <time-unit>Integer</time-unit>
  <moid>String</moid>
  <filter-name>String</filter-name>
  <column-names-list>
    <column-names-lists>trafficsessionid</column-names-lists>
    <column-names-lists>time</column-names-lists>
    <column-names-lists>size</column-names-lists>
    <column-names-lists>medium</column-names-lists>
    <column-names-lists>device_type</column-names-lists>
    <column-names-lists>device_class</column-names-lists>
    <column-names-lists>header_id</column-names-lists>
    <column-names-lists>ip_addr</column-names-lists>
    <column-names-lists>result_code</column-names-lists>
    <column-names-lists>event_desc</column-names-lists>
    <column-names-lists>level</column-names-lists>
    <column-names-lists>msg_id</column-names-lists>
    <column-names-lists>event_cat_name</column-names-lists>
    <column-names-lists>device_ip</column-names-lists>
    <column-names-lists>did</column-names-lists>
    <column-names-lists>rid</column-names-lists>
    <column-names-lists>AttackSeverity</column-names-lists>
    <column-names-lists>OutboundPackets</column-names-lists>
    <column-names-lists>OutboundBytes</column-names-lists>
    <column-names-lists>ServerPacketsRcvd</column-names-lists>
    <column-names-lists>ServerBytesRcvd</column-names-lists>
    <column-names-lists>InboundPackets</column-names-lists>
    <column-names-lists>InboundBytes</column-names-lists>
    <column-names-lists>ClientPacketsSent</column-names-lists>
```


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<column-names-lists>ClientBytesSent</column-names-lists>
<column-names-lists>LsysName</column-names-lists>
<column-names-lists>Action</column-names-lists>
<column-names-lists>ActionDetail</column-names-lists>
<column-names-lists>SourceInterface</column-names-lists>
<column-names-lists>DestinationInterface</column-names-lists>
<column-names-lists>ProtocolName</column-names-lists>
<column-names-lists>NATSourceIP</column-names-lists>
<column-names-lists>NATDestinationIP</column-names-lists>
<column-names-lists>NATSourcePort</column-names-lists>
<column-names-lists>NATDestinationPort</column-names-lists>
<column-names-lists>Roles</column-names-lists>
<column-names-lists>ICMP_Type</column-names-lists>
<column-names-lists>Reason</column-names-lists>
<column-names-lists>HostName</column-names-lists>
<column-names-lists>ProfileName</column-names-lists>
<column-names-lists>InterfaceName</column-names-lists>
<column-names-lists>RuleSetName</column-names-lists>
<column-names-lists>Argument1</column-names-lists>
<column-names-lists>Message</column-names-lists>
<column-names-lists>FeedName</column-names-lists>
<column-names-lists>CategoryName</column-names-lists>
<column-names-lists>SubCategoryName</column-names-lists>
<column-names-lists>NestedAppName</column-names-lists>
<column-names-lists>SourceIpv6</column-names-lists>
<column-names-lists>DestinationIpv6</column-names-lists>
<column-names-lists>SourceIP</column-names-lists>
<column-names-lists>DestinationIP</column-names-lists>
<column-names-lists>SourcePort</column-names-lists>
<column-names-lists>DestinationPort</column-names-lists>
<column-names-lists>Eventname</column-names-lists>
<column-names-lists>EventCategory</column-names-lists>
<column-names-lists>Username</column-names-lists>
<column-names-lists>Appname</column-names-lists>
<column-names-lists>Servicename</column-names-lists>
<column-names-lists>LogSource</column-names-lists>
<column-names-lists>LogSourceIpv6</column-names-lists>
<column-names-lists>Protocol</column-names-lists>
<column-names-lists>Attackname</column-names-lists>
<column-names-lists>Sourcezone</column-names-lists>
<column-names-lists>Destinationzone</column-names-lists>
<column-names-lists>Policyname</column-names-lists>
<column-names-lists>Rulename</column-names-lists>
<column-names-lists>RulenameNatsrc</column-names-lists>
<column-names-lists>RulenameNatdst</column-names-lists>
<column-names-lists>LogicalSystemname</column-names-lists>
<column-names-lists>LogId</column-names-lists>
<column-names-lists>DeviceID</column-names-lists>
<column-names-lists>DomainID</column-names-lists>
<column-names-lists>VPNName</column-names-lists>
<column-names-lists>Localaddress</column-names-lists>
<column-names-lists>Remoteaddress</column-names-lists>
<column-names-lists>Gatewayname</column-names-lists>
<column-names-lists>Tunnelid</column-names-lists>
<column-names-lists>Localikeid</column-names-lists>
<column-names-lists>Peerikeid</column-names-lists>
<column-names-lists>Url</column-names-lists>
<column-names-lists>UTMCategoryOrVirusName</column-names-lists>
<column-names-lists>ErrorMessage</column-names-lists>
<column-names-lists>ObjectName</column-names-lists>
<column-names-lists>PathName</column-names-lists>
<column-names-lists>Time</column-names-lists>
<column-names-lists>AND</column-names-lists>
<column-names-lists>OR</column-names-lists>

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```
    <column-names-lists>and</column-names-lists>
    <column-names-lists>or</column-names-lists>
    <totalSize>Integer</totalSize>
  </column-names-list>
  <filter-description>String</filter-description>
  <visibility>PUBLIC</visibility>
  <visibility>PRIVATE</visibility>
  <filter-created-time>Long</filter-created-time>
  <endtime>Long</endtime>
  <filter-type>DEFAULT</filter-type>
  <filter-type>NONDEFAULT</filter-type>
  <filter-tags>
    <filter-tag>String</filter-tag>
    <totalSize>Integer</totalSize>
  </filter-tags>
  <duration>Long</duration>
  <conditions>
    <condition>
      <field>String</field>
      <selected-operator>String</selected-operator>
      <next-conditional-operator>String</next-conditional-operator>
      <operators>String</operators>
    </condition>
    <totalSize>Integer</totalSize>
  </conditions>
  <aggregation>String</aggregation>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <columnnames>String</columnnames>
  <filter-string>String</filter-string>
  <filter-updated-time>Long</filter-updated-time>
  <starttime>Long</starttime>
  <columnwidth>String</columnwidth>
  <formatted-filter>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
      <serialVersionUID>long</serialVersionUID>
      <key>String</key>
      <operator>String</operator>
      <value>String</value>
    </filter>
  </formatted-filter>
  <is-deletable>Boolean</is-deletable>
  <graph-type>BAR</graph-type>
  <graph-type>PIE</graph-type>
  <graph-type>TIMESERIES</graph-type>
  <graph-type>LIST</graph-type>
</event-filter>
```

Sample JSON Output:

```
{
  "event-filter" : {
    "id" : "Integer",
    "time-unit" : "Integer",
    "moid" : "String",
    "filter-name" : "String",
    "column-names-list" : {
      "column-names-lists" : [ "trafficsessionid", "time", "size", "medium", "device_type", "device_class",
"header_id", "ip_addr", "result_code", "event_desc", "level", "msg_id", "event_cat_name", "device_ip", "did",
"rid", "AttackSeverity", "OutboundPackets", "OutboundBytes", "ServerPacketsRcvd", "ServerBytesRcvd",
"InboundPackets", "InboundBytes", "ClientPacketsSent", "ClientBytesSent", "LsysName", "Action",
"ActionDetail", "SourceInterface", "DestinationInterface",
```


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"ProtocolName", "NATSourceIP", "NATDestinationIP", "NATSourcePort", "NATDestinationPort", "Roles", "ICMP_Type", "Reason", "HostName", "ProfileName", "InterfaceName", "RuleSetName", "Argument1", "Message", "FeedName", "CategoryName", "SubCategoryName", "NestedAppName", "SourceIpv6", "DestinationIpv6", "SourceIP", "DestinationIP", "SourcePort", "DestinationPort", "Eventname", "EventCategory", "Username", "Appname", "Servicename", "LogSource", "LogSourceIpv6", "Protocol", "Attackname", "Sourcezone", "Destinationzone", "Policyname", "Rulename", "RulenameNatsrc", "RulenameNatdst", "LogicalSystemname", "LogId", "DeviceID", "DomainID", "VPNName", "Localaddress", "Remoteaddress", "Gatewayname", "Tunnelid", "Localikeid", "Peerikeid", "Url", "UTMCategoryOrVirusName", "ErrorMessage", "ObjectName", "PathName", "Time", "AND", "OR", "and", "or"],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "filter-description" : "String",
    "visibility" : ["PUBLIC", "PRIVATE"],
    "filter-created-time" : "Long",
    "endtime" : "Long",
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "filter-type" : ["DEFAULT", "NONDEFAULT"],
    "filter-tags" : {
      "filter-tag" : ["String"],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "duration" : "Long",
    "conditions" : {
      "condition" : [{
        "field" : "String",
        "selected-operator" : "String",
        "next-conditional-operator" : "String",
        "operators" : "String",
        "uri" : "String"
      }],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "aggregation" : "String",
    "last-modified-by-user-name" : "String",
    "definition-type" : ["Hidden", "Predefined", "Custom", "All"],
    "columnnames" : "String",
    "filter-string" : "String",
    "filter-updated-time" : "Long",
    "created-time" : "Date",
    "starttime" : "Long",
    "columnwidth" : "String",
    "formatted-filter" : {
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : ["String"]
      }
    },
    "is-deletable" : "Boolean",
    "graph-type" : ["BAR", "PIE", "TIMESERIES", "LIST"],
    "uri" : "String",
    "link" : "String"
  }

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}

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<event-filter>
  <id>Integer</id>
  <time-unit>Integer</time-unit>
  <moid>String</moid>
  <filter-name>String</filter-name>
  <column-names-list>
    <column-names-lists>trafficsessionid</column-names-lists>
    <column-names-lists>time</column-names-lists>
    <column-names-lists>size</column-names-lists>
    <column-names-lists>medium</column-names-lists>
    <column-names-lists>device_type</column-names-lists>
    <column-names-lists>device_class</column-names-lists>
    <column-names-lists>header_id</column-names-lists>
    <column-names-lists>ip_addr</column-names-lists>
    <column-names-lists>result_code</column-names-lists>
    <column-names-lists>event_desc</column-names-lists>
    <column-names-lists>level</column-names-lists>
    <column-names-lists>msg_id</column-names-lists>
    <column-names-lists>event_cat_name</column-names-lists>
    <column-names-lists>device_ip</column-names-lists>
    <column-names-lists>did</column-names-lists>
    <column-names-lists>rid</column-names-lists>
    <column-names-lists>AttackSeverity</column-names-lists>
    <column-names-lists>OutboundPackets</column-names-lists>
    <column-names-lists>OutboundBytes</column-names-lists>
    <column-names-lists>ServerPacketsRcvd</column-names-lists>
    <column-names-lists>ServerBytesRcvd</column-names-lists>
    <column-names-lists>InboundPackets</column-names-lists>
    <column-names-lists>InboundBytes</column-names-lists>
    <column-names-lists>ClientPacketsSent</column-names-lists>
    <column-names-lists>ClientBytesSent</column-names-lists>
    <column-names-lists>LsysName</column-names-lists>
    <column-names-lists>Action</column-names-lists>
    <column-names-lists>ActionDetail</column-names-lists>
    <column-names-lists>SourceInterface</column-names-lists>
    <column-names-lists>DestinationInterface</column-names-lists>
    <column-names-lists>ProtocolName</column-names-lists>
    <column-names-lists>NATSourceIP</column-names-lists>
    <column-names-lists>NATDestinationIP</column-names-lists>
    <column-names-lists>NATSourcePort</column-names-lists>
    <column-names-lists>NATDestinationPort</column-names-lists>
    <column-names-lists>Roles</column-names-lists>
    <column-names-lists>ICMP_Type</column-names-lists>
    <column-names-lists>Reason</column-names-lists>
    <column-names-lists>HostName</column-names-lists>
    <column-names-lists>ProfileName</column-names-lists>
    <column-names-lists>InterfaceName</column-names-lists>
    <column-names-lists>RuleSetName</column-names-lists>
    <column-names-lists>Argument1</column-names-lists>
    <column-names-lists>Message</column-names-lists>
    <column-names-lists>FeedName</column-names-lists>
    <column-names-lists>CategoryName</column-names-lists>
```


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```
    <column-names-lists>SubCategoryName</column-names-lists>
    <column-names-lists>NestedAppName</column-names-lists>
    <column-names-lists>SourceIpv6</column-names-lists>
    <column-names-lists>DestinationIpv6</column-names-lists>
    <column-names-lists>SourceIP</column-names-lists>
    <column-names-lists>DestinationIP</column-names-lists>
    <column-names-lists>SourcePort</column-names-lists>
    <column-names-lists>DestinationPort</column-names-lists>
    <column-names-lists>Eventname</column-names-lists>
    <column-names-lists>EventCategory</column-names-lists>
    <column-names-lists>Username</column-names-lists>
    <column-names-lists>Appname</column-names-lists>
    <column-names-lists>Servicename</column-names-lists>
    <column-names-lists>LogSource</column-names-lists>
    <column-names-lists>LogSourceIpv6</column-names-lists>
    <column-names-lists>Protocol</column-names-lists>
    <column-names-lists>Attackname</column-names-lists>
    <column-names-lists>Sourcezone</column-names-lists>
    <column-names-lists>Destinationzone</column-names-lists>
    <column-names-lists>Policyname</column-names-lists>
    <column-names-lists>Rulename</column-names-lists>
    <column-names-lists>RulenameNatsrc</column-names-lists>
    <column-names-lists>RulenameNatdst</column-names-lists>
    <column-names-lists>LogicalSystemname</column-names-lists>
    <column-names-lists>LogId</column-names-lists>
    <column-names-lists>DeviceID</column-names-lists>
    <column-names-lists>DomainID</column-names-lists>
    <column-names-lists>VPNName</column-names-lists>
    <column-names-lists>Localaddress</column-names-lists>
    <column-names-lists>Remoteaddress</column-names-lists>
    <column-names-lists>Gatewayname</column-names-lists>
    <column-names-lists>Tunnelid</column-names-lists>
    <column-names-lists>Localikeid</column-names-lists>
    <column-names-lists>Peerikeid</column-names-lists>
    <column-names-lists>Url</column-names-lists>
    <column-names-lists>UTMCategoryOrVirusName</column-names-lists>
    <column-names-lists>ErrorMessage</column-names-lists>
    <column-names-lists>ObjectName</column-names-lists>
    <column-names-lists>PathName</column-names-lists>
    <column-names-lists>Time</column-names-lists>
    <column-names-lists>AND</column-names-lists>
    <column-names-lists>OR</column-names-lists>
    <column-names-lists>and</column-names-lists>
    <column-names-lists>or</column-names-lists>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </column-names-list>
  <filter-description>String</filter-description>
  <visibility>PUBLIC</visibility>
  <visibility>PRIVATE</visibility>
  <filter-created-time>Long</filter-created-time>
  <endtime>Long</endtime>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-time>Date</last-modified-time>
  <filter-type>DEFAULT</filter-type>
  <filter-type>NONDEFAULT</filter-type>
  <filter-tags>
    <filter-tag>String</filter-tag>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </filter-tags>
  <duration>Long</duration>
  <conditions>
    <condition>
```


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```
      <field>String</field>
      <selected-operator>String</selected-operator>
      <next-conditional-operator>String</next-conditional-operator>
      <operators>String</operators>
      <uri>String</uri>
    </condition>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </conditions>
  <aggregation>String</aggregation>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <columnnames>String</columnnames>
  <filter-string>String</filter-string>
  <filter-updated-time>Long</filter-updated-time>
  <created-time>Date</created-time>
  <starttime>Long</starttime>
  <columnwidth>String</columnwidth>
  <formatted-filter>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
      <serialVersionUID>long</serialVersionUID>
      <key>String</key>
      <operator>String</operator>
      <value>String</value>
    </filter>
  </formatted-filter>
  <is-deletable>Boolean</is-deletable>
  <graph-type>BAR</graph-type>
  <graph-type>PIE</graph-type>
  <graph-type>TIMESERIES</graph-type>
  <graph-type>LIST</graph-type>
  <uri>String</uri>
  <link>String</link>
</event-filter>
```

Retrieve Event Filter Details by ID

Fetches the complete detailed configuration of a specific event filter by its ID.

URI	/api/juniper/seci/filter-management/filters/{id}
HTTP method	GET
Content-Type	None

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Accept-Type	application/vnd.juniper.seci.filter-management.event-filter+xml;version=1;q=0.01 application/vnd.juniper.seci.filter-management.event-filter+json;version=1;q=0.01
Access-Control	null

Sample JSON Output:


```
{
  "event-filter" : {
    "id" : "Integer",
    "time-unit" : "Integer",
    "moid" : "String",
    "filter-name" : "String",
    "column-names-list" : {
      "column-names-lists" : [ "trafficsessionid", "time", "size", "medium", "device_type", "device_class",
"header_id", "ip_addr", "result_code", "event_desc", "level", "msg_id", "event_cat_name", "device_ip", "did",
"rid", "AttackSeverity", "OutboundPackets", "OutboundBytes", "ServerPacketsRcvd", "ServerBytesRcvd",
"InboundPackets", "InboundBytes", "ClientPacketsSent", "ClientBytesSent", "LsysName", "Action",
"ActionDetail", "SourceInterface", "DestinationInterface", "ProtocolName", "NATSourceIP",
"NATDestinationIP", "NATSourcePort", "NATDestinationPort", "Roles", "ICMP_Type", "Reason",
"HostName", "ProfileName", "InterfaceName", "RuleSetName", "Argument1", "Message", "FeedName",
"CategoryName", "SubCategoryName", "NestedAppName", "SourceIpv6", "DestinationIpv6", "SourceIP",
"DestinationIP", "SourcePort", "DestinationPort", "Eventname", "EventCategory", "Username", "Appname",
"Servicename", "LogSource", "LogSourceIpv6", "Protocol", "Attackname", "Sourcezone", "Destinationzone",
"Policyname", "Rulename", "RulenameNatsrc", "RulenameNatdst", "LogicalSystemname", "LogId",
"DeviceID", "DomainID", "VPNName", "Localaddress", "Remoteaddress", "Gatewayname", "Tunnelid",
"Localikeid", "Peerikeid", "Url", "UTMCategoryOrVirusName", "ErrorMessage", "ObjectName", "PathName",
"Time", "AND", "OR", "and", "or" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "filter-description" : "String",
    "visibility" : [ "PUBLIC", "PRIVATE" ],
    "filter-created-time" : "Long",
    "endtime" : "Long",
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "filter-type" : [ "DEFAULT", "NONDEFAULT" ],
    "filter-tags" : {
      "filter-tag" : [ "String" ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "duration" : "Long",
    "conditions" : {
      "condition" : [ {
        "field" : "String",
        "selected-operator" : "String",
        "next-conditional-operator" : "String",
        "operators" : "String",
        "uri" : "String"
      } ],
      "uri" : "String",
      "totalSize" : "Integer"
    },
    "aggregation" : "String",
```


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```
    "last-modified-by-user-name" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "columnnames" : "String",
    "filter-string" : "String",
    "filter-updated-time" : "Long",
    "created-time" : "Date",
    "starttime" : "Long",
    "columnwidth" : "String",
    "formatted-filter" : {
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      }
    },
    "is-deletable" : "Boolean",
    "graph-type" : [ "BAR", "PIE", "TIMESERIES", "LIST" ],
    "uri" : "String",
    "link" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<event-filter>
  <id>Integer</id>
  <time-unit>Integer</time-unit>
  <moid>String</moid>
  <filter-name>String</filter-name>
  <column-names-list>
    <column-names-lists>trafficsessionid</column-names-lists>
    <column-names-lists>time</column-names-lists>
    <column-names-lists>size</column-names-lists>
    <column-names-lists>medium</column-names-lists>
    <column-names-lists>device_type</column-names-lists>
    <column-names-lists>device_class</column-names-lists>
    <column-names-lists>header_id</column-names-lists>
    <column-names-lists>ip_addr</column-names-lists>
    <column-names-lists>result_code</column-names-lists>
    <column-names-lists>event_desc</column-names-lists>
    <column-names-lists>level</column-names-lists>
    <column-names-lists>msg_id</column-names-lists>
    <column-names-lists>event_cat_name</column-names-lists>
    <column-names-lists>device_ip</column-names-lists>
    <column-names-lists>did</column-names-lists>
    <column-names-lists>rid</column-names-lists>
    <column-names-lists>AttackSeverity</column-names-lists>
    <column-names-lists>OutboundPackets</column-names-lists>
    <column-names-lists>OutboundBytes</column-names-lists>
    <column-names-lists>ServerPacketsRcvd</column-names-lists>
    <column-names-lists>ServerBytesRcvd</column-names-lists>
    <column-names-lists>InboundPackets</column-names-lists>
    <column-names-lists>InboundBytes</column-names-lists>
    <column-names-lists>ClientPacketsSent</column-names-lists>
    <column-names-lists>ClientBytesSent</column-names-lists>
    <column-names-lists>LsysName</column-names-lists>
    <column-names-lists>Action</column-names-lists>
```


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<column-names-lists>ActionDetail</column-names-lists>
<column-names-lists>SourceInterface</column-names-lists>
<column-names-lists>DestinationInterface</column-names-lists>
<column-names-lists>ProtocolName</column-names-lists>
<column-names-lists>NATSourceIP</column-names-lists>
<column-names-lists>NATDestinationIP</column-names-lists>
<column-names-lists>NATSourcePort</column-names-lists>
<column-names-lists>NATDestinationPort</column-names-lists>
<column-names-lists>Roles</column-names-lists>
<column-names-lists>ICMP_Type</column-names-lists>
<column-names-lists>Reason</column-names-lists>
<column-names-lists>HostName</column-names-lists>
<column-names-lists>ProfileName</column-names-lists>
<column-names-lists>InterfaceName</column-names-lists>
<column-names-lists>RuleSetName</column-names-lists>
<column-names-lists>Argument1</column-names-lists>
<column-names-lists>Message</column-names-lists>
<column-names-lists>FeedName</column-names-lists>
<column-names-lists>CategoryName</column-names-lists>
<column-names-lists>SubCategoryName</column-names-lists>
<column-names-lists>NestedAppName</column-names-lists>
<column-names-lists>SourceIpv6</column-names-lists>
<column-names-lists>DestinationIpv6</column-names-lists>
<column-names-lists>SourceIP</column-names-lists>
<column-names-lists>DestinationIP</column-names-lists>
<column-names-lists>SourcePort</column-names-lists>
<column-names-lists>DestinationPort</column-names-lists>
<column-names-lists>Eventname</column-names-lists>
<column-names-lists>EventCategory</column-names-lists>
<column-names-lists>Username</column-names-lists>
<column-names-lists>Appname</column-names-lists>
<column-names-lists>Servicename</column-names-lists>
<column-names-lists>LogSource</column-names-lists>
<column-names-lists>LogSourceIpv6</column-names-lists>
<column-names-lists>Protocol</column-names-lists>
<column-names-lists>Attackname</column-names-lists>
<column-names-lists>Sourcezone</column-names-lists>
<column-names-lists>Destinationzone</column-names-lists>
<column-names-lists>Policyname</column-names-lists>
<column-names-lists>Rulename</column-names-lists>
<column-names-lists>RulenameNatsrc</column-names-lists>
<column-names-lists>RulenameNatdst</column-names-lists>
<column-names-lists>LogicalSystemname</column-names-lists>
<column-names-lists>LogId</column-names-lists>
<column-names-lists>DeviceID</column-names-lists>
<column-names-lists>DomainID</column-names-lists>
<column-names-lists>VPNName</column-names-lists>
<column-names-lists>Localaddress</column-names-lists>
<column-names-lists>Remoteaddress</column-names-lists>
<column-names-lists>Gatewayname</column-names-lists>
<column-names-lists>Tunnelid</column-names-lists>
<column-names-lists>Localikeid</column-names-lists>
<column-names-lists>Peerikeid</column-names-lists>
<column-names-lists>Url</column-names-lists>
<column-names-lists>UTMCategoryOrVirusName</column-names-lists>
<column-names-lists>ErrorMessage</column-names-lists>
<column-names-lists>ObjectName</column-names-lists>
<column-names-lists>PathName</column-names-lists>
<column-names-lists>Time</column-names-lists>
<column-names-lists>AND</column-names-lists>
<column-names-lists>OR</column-names-lists>
<column-names-lists>and</column-names-lists>
<column-names-lists>or</column-names-lists>
<uri>String</uri>

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```
    <totalSize>Integer</totalSize>
  </column-names-list>
  <filter-description>String</filter-description>
  <visibility>PUBLIC</visibility>
  <visibility>PRIVATE</visibility>
  <filter-created-time>Long</filter-created-time>
  <endtime>Long</endtime>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-time>Date</last-modified-time>
  <filter-type>DEFAULT</filter-type>
  <filter-type>NONDEFAULT</filter-type>
  <filter-tags>
    <filter-tag>String</filter-tag>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </filter-tags>
  <duration>Long</duration>
  <conditions>
    <condition>
      <field>String</field>
      <selected-operator>String</selected-operator>
      <next-conditional-operator>String</next-conditional-operator>
      <operators>String</operators>
      <uri>String</uri>
    </condition>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </conditions>
  <aggregation>String</aggregation>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <columnnames>String</columnnames>
  <filter-string>String</filter-string>
  <filter-updated-time>Long</filter-updated-time>
  <created-time>Date</created-time>
  <starttime>Long</starttime>
  <columnwidth>String</columnwidth>
  <formatted-filter>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
      <serialVersionUID>long</serialVersionUID>
      <key>String</key>
      <operator>String</operator>
      <value>String</value>
    </filter>
  </formatted-filter>
  <is-deletable>Boolean</is-deletable>
  <graph-type>BAR</graph-type>
  <graph-type>PIE</graph-type>
  <graph-type>TIMESERIES</graph-type>
  <graph-type>LIST</graph-type>
  <uri>String</uri>
  <link>String</link>
</event-filter>
```

Retrieve All Security Event Categories

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Fetches a list of all defined security event categories in the system.

URI	/api/juniper/seci/category-management/security-event-categories
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.category-management.categories+xml;version=1;q=0.01 application/vnd.juniper.seci.category-management.categories+json;version=1;q=0.01
Access-Control	DefaultRead

Sample JSON Output:


```
{
  "##default" : {
    "category" : [ {
      "event" : [ {
        "name" : "String"
      } ],
      "name" : "String"
    } ]
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<##default>
  <category>
    <event>
      <name>String</name>
    </event>
    <name>String</name>
  </category>
</##default>
```


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CHAPTER 54

Report Management RESTful Web Services

The following opertions can be performed using Secuirty Director Report Management RESTful Web Services

Get All SD-WAN Report Filters by Type

Retrieves a list of all SD-WAN report filters of a specified type.

URI	/api/juniper/seci/report-management/sdwan-reports/filters/?filterType=SdwanReportFilterEnums$FilterType
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.report-management.sdwan-report-filters+xml;version=1;q=0.01 application/vnd.juniper.seci.report-management.sdwan-report-filters+json;version=1;q=0.01
Access-Control	DefaultRead

Sample JSON Output:


```
{
  "sdwan-report-filters" : {
    "sdwan-report-filter" : [ {
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "description" : "String",
      "group-by" : "String",
      "filter-type" : [ "SDWAN_TENANT", "SDWAN_SITE" ],
      "chart-type" : [ "BAR", "PIE", "GRID", "BAR_PIE_MIX", "TIMESERIES", "LIST", "DOUGHNUT" ],
      "domain-id" : "Integer",
      "name" : "String",
      "id" : "int",
      "created-time" : "Date",
      "last-generated-time" : "Long",
```


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```
      "domain-name" : "String",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "last-modified-by-user-name" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<sdwan-report-filters>
  <sdwan-report-filter>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <description>String</description>
    <group-by>String</group-by>
    <filter-type>SDWAN_TENANT</filter-type>
    <filter-type>SDWAN_SITE</filter-type>
    <chart-type>BAR</chart-type>
    <chart-type>PIE</chart-type>
    <chart-type>GRID</chart-type>
    <chart-type>BAR_PIE_MIX</chart-type>
    <chart-type>TIMESERIES</chart-type>
    <chart-type>LIST</chart-type>
    <chart-type>DOUGHNUT</chart-type>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <id>int</id>
    <created-time>Date</created-time>
    <last-generated-time>Long</last-generated-time>
    <domain-name>String</domain-name>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <uri>String</uri>
  </sdwan-report-filter>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</sdwan-report-filters>
```


Get SD-WAN Report Filter by ID

Retrieves a specific SD-WAN report filter by its unique ID.

URI	/api/juniper/seci/report-management/sdwan-reports/filters/{filter-id}
HTTP method	GET

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Content-Type	None
Accept-Type	application/vnd.juniper.seci.report-management.sdwan-report-filter+xml;version=1;q=0.01 application/vnd.juniper.seci.report-management.sdwan-report-filter+json;version=1;q=0.01
Access-Control	DefaultRead

Sample JSON Output:


```
{
  "sdwan-report-filter" : {
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "description" : "String",
    "group-by" : "String",
    "filter-type" : [ "SDWAN_TENANT", "SDWAN_SITE" ],
    "chart-type" : [ "BAR", "PIE", "GRID", "BAR_PIE_MIX", "TIMESERIES", "LIST", "DOUGHNUT" ],
    "domain-id" : "Integer",
    "name" : "String",
    "id" : "int",
    "created-time" : "Date",
    "last-generated-time" : "Long",
    "domain-name" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "last-modified-by-user-name" : "String",
    "uri" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<sdwan-report-filter>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <description>String</description>
    <group-by>String</group-by>
    <filter-type>SDWAN_TENANT</filter-type>
    <filter-type>SDWAN_SITE</filter-type>
    <chart-type>BAR</chart-type>
    <chart-type>PIE</chart-type>
    <chart-type>GRID</chart-type>
    <chart-type>BAR_PIE_MIX</chart-type>
    <chart-type>TIMESERIES</chart-type>
    <chart-type>LIST</chart-type>
    <chart-type>DOUGHNUT</chart-type>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <id>int</id>
    <created-time>Date</created-time>
    <last-generated-time>Long</last-generated-time>
    <domain-name>String</domain-name>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
```


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```
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
</sdwan-report-filter>
```

Get Report By ID

This request is used to get report object by ID.

URI	/api/juniper/seci/report-management/report-templates/{report-id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.report-management.report-template+xml;version=1;q=0.01 application/vnd.juniper.seci.report-management.report-template+json;version=1;q=0.01
Access-Control	viewReports

Sample JSON Output:

```
{
  "report-template" : {
    "policy-type" : "String",
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "report-logo" : {
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "created-time" : "Date",
      "domain-name" : "String",
      "company-name" : "String",
      "logo-name" : "String",
      "version" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "last-modified-by-user-name" : "String",
      "domain-id" : "Integer",
      "file-name" : "String",
      "uri" : "String",
      "id" : "String"
```


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```
    },
    "report-type" : [ "DRAFT", "POLICY_STANDARD", "POLICY_UNIFIED" ],
    "job-id" : "String",
    "job-status" : "String",
    "policy-analysis-content" : {
      "firewall-policy" : "Integer",
      "uri" : "String",
      "policyName" : "String",
      "anomalies" : {
        "anomalies" : [ "String" ]
      },
      "device-id" : "Integer",
      "unused-days" : "Integer"
    },
    "bandwidth-template-content" : {
      "count" : "Integer",
      "time-unit" : "Integer",
      "time-duration" : "Long",
      "start-time" : "Long",
      "end-time" : "Long",
      "report-type" : "String",
      "device-ids" : [ "Integer" ]
    },
    "sdwan-report-content" : {
      "site-ids" : [ "String" ],
      "filter-ids" : [ "String" ],
      "count" : "Integer",
      "time-duration" : "String"
    },
    "email-subject" : "String",
    "version" : "Integer",
    "sections" : {
      "section" : [ {
        "section-title" : "String",
        "count" : "Integer",
        "time-duration" : "Long",
        "filter-string" : "String",
        "formatted-filter" : {
          "serialVersionUID" : "long",
          "case-sensitive" : "boolean",
          "and" : [ ],
          "or" : [ ],
          "not" : [ ],
          "filter" : {
            "serialVersionUID" : "long",
            "key" : "String",
            "operator" : "String",
            "value" : [ "String" ]
          }
        },
        "end-time" : "Long",
        "section-description" : "String",
        "aggregation" : "String",
        "start-time" : "Long",
        "chart-type" : [ "PIE", "COLUMN", "COMPARISON_BAR", "TIMELINE", "AREA", "GEOMAP",
  "LOGEVENT", "LOGCOLUMN", "GRID", "GROUPEDGRID", "TIMEGRID", "BAR", "TEXTGRID" ],
        "section-id" : "Integer",
        "time-unit" : "Integer",
        "display-table" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "description" : "String",
```


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```
    "id" : "String",
    "domain-id" : "Integer",
    "name" : "String",
    "scheduler" : {
      "start-time" : "Long",
      "schedule-type" : [ "Minutes", "Hourly", "Daily", "Weekly", "Monthly", "Yearly", "Now", "Once" ],
      "re-occurence" : "Integer",
      "date-of-month" : "Integer",
      "end-time" : "Long",
      "uri" : "String",
      "days-of-week" : {
        "day-of-week" : [ "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday" ],
        "uri" : "String",
        "totalSize" : "Integer"
      }
    },
    "created-time" : "Date",
    "last-generated-time" : "Long",
    "domain-name" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "additional-emails" : "String",
    "last-modified-by-user-name" : "String",
    "job-failure-reason" : "String",
    "comments" : "String",
    "report-content-type" : [ "LOG", "POLICY_ANOMALY", "BANDWIDTH", "SDWAN_TENANT",
"SDWAN_SITE", "THREAT_ASSESSMENT" ],
    "uri" : "String",
    "reportUser" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<report-template>
   <policy-type>String</policy-type>
   <created-by-user-name>String</created-by-user-name>
   <last-modified-time>Date</last-modified-time>
   <report-logo>
      <created-by-user-name>String</created-by-user-name>
      <last-modified-time>Date</last-modified-time>
      <created-time>Date</created-time>
      <domain-name>String</domain-name>
      <company-name>String</company-name>
      <logo-name>String</logo-name>
      <version>Integer</version>
      <definition-type>Hidden</definition-type>
      <definition-type>Predefined</definition-type>
      <definition-type>Custom</definition-type>
      <definition-type>All</definition-type>
      <last-modified-by-user-name>String</last-modified-by-user-name>
      <domain-id>Integer</domain-id>
      <file-name>String</file-name>
      <uri>String</uri>
      <id>String</id>
   </report-logo>
   <report-type>DRAFT</report-type>
   <report-type>POLICY_STANDARD</report-type>
   <report-type>POLICY_UNIFIED</report-type>
   <job-id>String</job-id>
   <job-status>String</job-status>
   <policy-analysis-content>
      <firewall-policy>Integer</firewall-policy>
```


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```
    <uri>String</uri>
    <policyName>String</policyName>
    <anomalies>
      <anomalies>String</anomalies>
    </anomalies>
    <device-id>Integer</device-id>
    <unused-days>Integer</unused-days>
  </policy-analysis-content>
  <bandwidth-template-content>
    <count>Integer</count>
    <time-unit>Integer</time-unit>
    <time-duration>Long</time-duration>
    <start-time>Long</start-time>
    <end-time>Long</end-time>
    <report-type>String</report-type>
    <device-ids>Integer</device-ids>
  </bandwidth-template-content>
  <sdwan-report-content>
    <site-ids>String</site-ids>
    <filter-ids>String</filter-ids>
    <count>Integer</count>
    <time-duration>String</time-duration>
  </sdwan-report-content>
  <email-subject>String</email-subject>
  <version>Integer</version>
  <sections>
    <section>
      <section-title>String</section-title>
      <count>Integer</count>
      <time-duration>Long</time-duration>
      <filter-string>String</filter-string>
      <formatted-filter>
        <serialVersionUID>long</serialVersionUID>
        <case-sensitive>boolean</case-sensitive>
        <filter>
          <serialVersionUID>long</serialVersionUID>
          <key>String</key>
          <operator>String</operator>
          <value>String</value>
        </filter>
      </formatted-filter>
      <end-time>Long</end-time>
      <section-description>String</section-description>
      <aggregation>String</aggregation>
      <start-time>Long</start-time>
      <chart-type>PIE</chart-type>
      <chart-type>COLUMN</chart-type>
      <chart-type>COMPARISON_BAR</chart-type>
      <chart-type>TIMELINE</chart-type>
      <chart-type>AREA</chart-type>
      <chart-type>GEOMAP</chart-type>
      <chart-type>LOGEVENT</chart-type>
      <chart-type>LOGCOLUMN</chart-type>
      <chart-type>GRID</chart-type>
      <chart-type>GROUPEDGRID</chart-type>
      <chart-type>TIMEGRID</chart-type>
      <chart-type>BAR</chart-type>
      <chart-type>TEXTGRID</chart-type>
      <section-id>Integer</section-id>
      <time-unit>Integer</time-unit>
      <display-table>Boolean</display-table>
      <uri>String</uri>
    </section>
    <uri>String</uri>
```


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```
    </sections>
    <description>String</description>
    <id>String</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <scheduler>
      <start-time>Long</start-time>
      <schedule-type>Minutes</schedule-type>
      <schedule-type>Hourly</schedule-type>
      <schedule-type>Daily</schedule-type>
      <schedule-type>Weekly</schedule-type>
      <schedule-type>Monthly</schedule-type>
      <schedule-type>Yearly</schedule-type>
      <schedule-type>Now</schedule-type>
      <schedule-type>Once</schedule-type>
      <re-occurence>Integer</re-occurence>
      <date-of-month>Integer</date-of-month>
      <end-time>Long</end-time>
      <uri>String</uri>
      <days-of-week>
        <day-of-week>Sunday</day-of-week>
        <day-of-week>Monday</day-of-week>
        <day-of-week>Tuesday</day-of-week>
        <day-of-week>Wednesday</day-of-week>
        <day-of-week>Thursday</day-of-week>
        <day-of-week>Friday</day-of-week>
        <day-of-week>Saturday</day-of-week>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </days-of-week>
    </scheduler>
    <created-time>Date</created-time>
    <last-generated-time>Long</last-generated-time>
    <domain-name>String</domain-name>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <additional-emails>String</additional-emails>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <job-failure-reason>String</job-failure-reason>
    <comments>String</comments>
    <report-content-type>LOG</report-content-type>
    <report-content-type>POLICY_ANOMALY</report-content-type>
    <report-content-type>BANDWIDTH</report-content-type>
    <report-content-type>SDWAN_TENANT</report-content-type>
    <report-content-type>SDWAN_SITE</report-content-type>
    <report-content-type>THREAT_ASSESSMENT</report-content-type>
    <uri>String</uri>
    <reportUser>String</reportUser>
  </report-template>
```

Get All Reports

This request is used to get all report objects that are configured in Security Director

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URI	/api/juniper/seci/report-management/report-templates
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.report-management.report-templates+xml;version=1;q=0.01 application/vnd.juniper.seci.report-management.report-templates+json;version=1;q=0.01
Access-Control	viewReports

Sample JSON Output:


```
{
  "report-templates" : {
    "report-template" : [ {
      "report-type" : [ "DRAFT", "POLICY_STANDARD", "POLICY_UNIFIED" ],
      "id" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "domain-name" : "String",
      "report-content-type" : [ "LOG", "POLICY_ANOMALY", "BANDWIDTH", "SDWAN_TENANT",
"SDWAN_SITE", "THREAT_ASSESSMENT" ],
      "uri" : "String",
      "link" : "String",
      "job-id" : "String",
      "description" : "String",
      "additional-emails" : "String",
      "last-generated-time" : "Long",
      "sections" : {
        "section" : [ {
          "section-title" : "String",
          "count" : "Integer",
          "time-duration" : "Long",
          "filter-string" : "String",
          "formatted-filter" : {
            "serialVersionUID" : "long",
            "case-sensitive" : "boolean",
            "and" : [ ],
            "or" : [ ],
            "not" : [ ],
            "filter" : {
              "serialVersionUID" : "long",
              "key" : "String",
              "operator" : "String",
              "value" : [ "String" ]
            }
          },
          "end-time" : "Long",
```


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```
        "section-description" : "String",
        "aggregation" : "String",
        "start-time" : "Long",
        "chart-type" : [ "PIE", "COLUMN", "COMPARISON_BAR", "TIMELINE", "AREA", "GEOMAP",
"LOGEVENT", "LOGCOLUMN", "GRID", "GROUPEDGRID", "TIMEGRID", "BAR", "TEXTGRID" ],
        "section-id" : "Integer",
        "time-unit" : "Integer",
        "display-table" : "Boolean",
        "uri" : "String"
       } ],
       "uri" : "String"
      },
      "scheduler" : {
       "start-time" : "Long",
       "schedule-type" : [ "Minutes", "Hourly", "Daily", "Weekly", "Monthly", "Yearly", "Now", "Once" ],
       "re-occurence" : "Integer",
       "date-of-month" : "Integer",
       "end-time" : "Long",
       "uri" : "String",
       "days-of-week" : {
        "day-of-week" : [ "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday" ],
        "uri" : "String",
        "totalSize" : "Integer"
       }
      },
      "policy-analysis-content" : {
       "firewall-policy" : "Integer",
       "uri" : "String",
       "policyName" : "String",
       "anomalies" : {
        "anomalies" : [ "String" ]
       },
       "device-id" : "Integer",
       "unused-days" : "Integer"
      },
      "bandwidth-template-content" : {
       "count" : "Integer",
       "time-unit" : "Integer",
       "time-duration" : "Long",
       "start-time" : "Long",
       "end-time" : "Long",
       "report-type" : "String",
       "device-ids" : [ "Integer" ]
      },
      "sdwan-report-content" : {
       "site-ids" : [ "String" ],
       "filter-ids" : [ "String" ],
       "count" : "Integer",
       "time-duration" : "String"
      }
     } ],
     "uri" : "String",
     "totalSize" : "Integer"
    }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<report-templates>
  <report-template>
    <report-type>DRAFT</report-type>
    <report-type>POLICY_STANDARD</report-type>
    <report-type>POLICY_UNIFIED</report-type>
    <id>String</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <domain-name>String</domain-name>
    <report-content-type>LOG</report-content-type>
    <report-content-type>POLICY_ANOMALY</report-content-type>
    <report-content-type>BANDWIDTH</report-content-type>
    <report-content-type>SDWAN_TENANT</report-content-type>
    <report-content-type>SDWAN_SITE</report-content-type>
    <report-content-type>THREAT_ASSESSMENT</report-content-type>
    <uri>String</uri>
    <link>String</link>
    <job-id>String</job-id>
    <description>String</description>
    <additional-emails>String</additional-emails>
    <last-generated-time>Long</last-generated-time>
    <sections>
      <section>
        <section-title>String</section-title>
        <count>Integer</count>
        <time-duration>Long</time-duration>
        <filter-string>String</filter-string>
        <formatted-filter>
          <serialVersionUID>long</serialVersionUID>
          <case-sensitive>boolean</case-sensitive>
          <filter>
            <serialVersionUID>long</serialVersionUID>
            <key>String</key>
            <operator>String</operator>
            <value>String</value>
          </filter>
        </formatted-filter>
        <end-time>Long</end-time>
        <section-description>String</section-description>
        <aggregation>String</aggregation>
        <start-time>Long</start-time>
        <chart-type>PIE</chart-type>
        <chart-type>COLUMN</chart-type>
        <chart-type>COMPARISON_BAR</chart-type>
        <chart-type>TIMELINE</chart-type>
        <chart-type>AREA</chart-type>
        <chart-type>GEOMAP</chart-type>
        <chart-type>LOGEVENT</chart-type>
        <chart-type>LOGCOLUMN</chart-type>
        <chart-type>GRID</chart-type>
        <chart-type>GROUPEDGRID</chart-type>
        <chart-type>TIMEGRID</chart-type>
        <chart-type>BAR</chart-type>
        <chart-type>TEXTGRID</chart-type>
        <section-id>Integer</section-id>
        <time-unit>Integer</time-unit>
        <display-table>Boolean</display-table>
```


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```
        <uri>String</uri>
      </section>
      <uri>String</uri>
    </sections>
    <scheduler>
      <start-time>Long</start-time>
      <schedule-type>Minutes</schedule-type>
      <schedule-type>Hourly</schedule-type>
      <schedule-type>Daily</schedule-type>
      <schedule-type>Weekly</schedule-type>
      <schedule-type>Monthly</schedule-type>
      <schedule-type>Yearly</schedule-type>
      <schedule-type>Now</schedule-type>
      <schedule-type>Once</schedule-type>
      <re-occurence>Integer</re-occurence>
      <date-of-month>Integer</date-of-month>
      <end-time>Long</end-time>
      <uri>String</uri>
      <days-of-week>
        <day-of-week>Sunday</day-of-week>
        <day-of-week>Monday</day-of-week>
        <day-of-week>Tuesday</day-of-week>
        <day-of-week>Wednesday</day-of-week>
        <day-of-week>Thursday</day-of-week>
        <day-of-week>Friday</day-of-week>
        <day-of-week>Saturday</day-of-week>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </days-of-week>
    </scheduler>
    <policy-analysis-content>
      <firewall-policy>Integer</firewall-policy>
      <uri>String</uri>
      <policyName>String</policyName>
      <anomalies>
        <anomalies>String</anomalies>
      </anomalies>
      <device-id>Integer</device-id>
      <unused-days>Integer</unused-days>
    </policy-analysis-content>
    <bandwidth-template-content>
      <count>Integer</count>
      <time-unit>Integer</time-unit>
      <time-duration>Long</time-duration>
      <start-time>Long</start-time>
      <end-time>Long</end-time>
      <report-type>String</report-type>
      <device-ids>Integer</device-ids>
    </bandwidth-template-content>
    <sdwan-report-content>
      <site-ids>String</site-ids>
      <filter-ids>String</filter-ids>
      <count>Integer</count>
      <time-duration>String</time-duration>
    </sdwan-report-content>
  </report-template>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</report-templates>
```


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Get All SDWan Reports

This request is used to get all SDWan report objects that are configured in Security Director

URI	/api/juniper/seci/report-management/report-templates-sdwan
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.seci.report-management.report-templates+xml;version=1;q=0.01 application/vnd.juniper.seci.report-management.report-templates+json;version=1;q=0.01
Access-Control	viewReports

Sample JSON Output:


```
{
  "report-templates" : {
    "report-template" : [ {
      "report-type" : [ "DRAFT", "POLICY_STANDARD", "POLICY_UNIFIED" ],
      "id" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "domain-name" : "String",
      "report-content-type" : [ "LOG", "POLICY_ANOMALY", "BANDWIDTH", "SDWAN_TENANT",
"SDWAN_SITE", "THREAT_ASSESSMENT" ],
      "uri" : "String",
      "link" : "String",
      "job-id" : "String",
      "description" : "String",
      "additional-emails" : "String",
      "last-generated-time" : "Long",
      "sections" : {
        "section" : [ {
          "section-title" : "String",
          "count" : "Integer",
          "time-duration" : "Long",
          "filter-string" : "String",
          "formatted-filter" : {
            "serialVersionUID" : "long",
            "case-sensitive" : "boolean",
            "and" : [ ],
            "or" : [ ],
            "not" : [ ],
```


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```
          "filter" : {
            "serialVersionUID" : "long",
            "key" : "String",
            "operator" : "String",
            "value" : [ "String" ]
          }
        },
        "end-time" : "Long",
        "section-description" : "String",
        "aggregation" : "String",
        "start-time" : "Long",
        "chart-type" : [ "PIE", "COLUMN", "COMPARISON_BAR", "TIMELINE", "AREA", "GEOMAP",
"LOGEVENT", "LOGCOLUMN", "GRID", "GROUPEDGRID", "TIMEGRID", "BAR", "TEXTGRID" ],
        "section-id" : "Integer",
        "time-unit" : "Integer",
        "display-table" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "scheduler" : {
      "start-time" : "Long",
      "schedule-type" : [ "Minutes", "Hourly", "Daily", "Weekly", "Monthly", "Yearly", "Now", "Once" ],
      "re-occurence" : "Integer",
      "date-of-month" : "Integer",
      "end-time" : "Long",
      "uri" : "String",
      "days-of-week" : {
        "day-of-week" : [ "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday" ],
        "uri" : "String",
        "totalSize" : "Integer"
      }
    },
    "policy-analysis-content" : {
      "firewall-policy" : "Integer",
      "uri" : "String",
      "policyName" : "String",
      "anomalies" : {
        "anomalies" : [ "String" ]
      },
      "device-id" : "Integer",
      "unused-days" : "Integer"
    },
    "bandwidth-template-content" : {
      "count" : "Integer",
      "time-unit" : "Integer",
      "time-duration" : "Long",
      "start-time" : "Long",
      "end-time" : "Long",
      "report-type" : "String",
      "device-ids" : [ "Integer" ]
    },
    "sdwan-report-content" : {
      "site-ids" : [ "String" ],
      "filter-ids" : [ "String" ],
      "count" : "Integer",
      "time-duration" : "String"
    }
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
 }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<report-templates>
  <report-template>
    <report-type>DRAFT</report-type>
    <report-type>POLICY_STANDARD</report-type>
    <report-type>POLICY_UNIFIED</report-type>
    <id>String</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <domain-name>String</domain-name>
    <report-content-type>LOG</report-content-type>
    <report-content-type>POLICY_ANOMALY</report-content-type>
    <report-content-type>BANDWIDTH</report-content-type>
    <report-content-type>SDWAN_TENANT</report-content-type>
    <report-content-type>SDWAN_SITE</report-content-type>
    <report-content-type>THREAT_ASSESSMENT</report-content-type>
    <uri>String</uri>
    <link>String</link>
    <job-id>String</job-id>
    <description>String</description>
    <additional-emails>String</additional-emails>
    <last-generated-time>Long</last-generated-time>
    <sections>
      <section>
        <section-title>String</section-title>
        <count>Integer</count>
        <time-duration>Long</time-duration>
        <filter-string>String</filter-string>
        <formatted-filter>
          <serialVersionUID>long</serialVersionUID>
          <case-sensitive>boolean</case-sensitive>
          <filter>
            <serialVersionUID>long</serialVersionUID>
            <key>String</key>
            <operator>String</operator>
            <value>String</value>
          </filter>
        </formatted-filter>
        <end-time>Long</end-time>
        <section-description>String</section-description>
        <aggregation>String</aggregation>
        <start-time>Long</start-time>
        <chart-type>PIE</chart-type>
        <chart-type>COLUMN</chart-type>
        <chart-type>COMPARISON_BAR</chart-type>
        <chart-type>TIMELINE</chart-type>
        <chart-type>AREA</chart-type>
        <chart-type>GEOMAP</chart-type>
        <chart-type>LOGEVENT</chart-type>
```


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```
      <chart-type>LOGCOLUMN</chart-type>
      <chart-type>GRID</chart-type>
      <chart-type>GROUPEDGRID</chart-type>
      <chart-type>TIMEGRID</chart-type>
      <chart-type>BAR</chart-type>
      <chart-type>TEXTGRID</chart-type>
      <section-id>Integer</section-id>
      <time-unit>Integer</time-unit>
      <display-table>Boolean</display-table>
      <uri>String</uri>
    </section>
    <uri>String</uri>
  </sections>
  <scheduler>
    <start-time>Long</start-time>
    <schedule-type>Minutes</schedule-type>
    <schedule-type>Hourly</schedule-type>
    <schedule-type>Daily</schedule-type>
    <schedule-type>Weekly</schedule-type>
    <schedule-type>Monthly</schedule-type>
    <schedule-type>Yearly</schedule-type>
    <schedule-type>Now</schedule-type>
    <schedule-type>Once</schedule-type>
    <re-occurence>Integer</re-occurence>
    <date-of-month>Integer</date-of-month>
    <end-time>Long</end-time>
    <uri>String</uri>
    <days-of-week>
      <day-of-week>Sunday</day-of-week>
      <day-of-week>Monday</day-of-week>
      <day-of-week>Tuesday</day-of-week>
      <day-of-week>Wednesday</day-of-week>
      <day-of-week>Thursday</day-of-week>
      <day-of-week>Friday</day-of-week>
      <day-of-week>Saturday</day-of-week>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </days-of-week>
  </scheduler>
  <policy-analysis-content>
    <firewall-policy>Integer</firewall-policy>
    <uri>String</uri>
    <policyName>String</policyName>
    <anomalies>
      <anomalies>String</anomalies>
    </anomalies>
    <device-id>Integer</device-id>
    <unused-days>Integer</unused-days>
  </policy-analysis-content>
  <bandwidth-template-content>
    <count>Integer</count>
    <time-unit>Integer</time-unit>
    <time-duration>Long</time-duration>
    <start-time>Long</start-time>
    <end-time>Long</end-time>
    <report-type>String</report-type>
    <device-ids>Integer</device-ids>
  </bandwidth-template-content>
  <sdwan-report-content>
    <site-ids>String</site-ids>
    <filter-ids>String</filter-ids>
    <count>Integer</count>
    <time-duration>String</time-duration>
  </sdwan-report-content>
```


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```
  </report-template>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</report-templates>
```

Create Report

This request is used to create a report.

URI	/api/juniper/seci/report-management/report-templates
HTTP method	POST
Content-Type	application/vnd.juniper.seci.report-management.report-template+xml;version=1;charset=UTF-8 application/vnd.juniper.seci.report-management.report-template+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.seci.report-management.report-template+xml;version=1;q=0.01 application/vnd.juniper.seci.report-management.report-template+json;version=1;q=0.01
Access-Control	createReports

Sample JSON Input

```
{
  "report-template" : {
    "policy-type" : "String",
    "report-logo" : {
      "company-name" : "String",
      "logo-name" : "String",
      "version" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "file-name" : "String",
      "id" : "String"
    },
    "report-type" : [ "DRAFT", "POLICY_STANDARD", "POLICY_UNIFIED" ],
    "job-id" : "String",
    "job-status" : "String",
    "policy-analysis-content" : {
      "firewall-policy" : "Integer",
      "policyName" : "String",
```


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```
    "anomalies" : {
      "anomalies" : [ "String" ]
    },
    "device-id" : "Integer",
    "unused-days" : "Integer"
  },
  "bandwidth-template-content" : {
    "count" : "Integer",
    "time-unit" : "Integer",
    "time-duration" : "Long",
    "start-time" : "Long",
    "end-time" : "Long",
    "report-type" : "String",
    "device-ids" : [ "Integer" ]
  },
  "sdwan-report-content" : {
    "site-ids" : [ "String" ],
    "filter-ids" : [ "String" ],
    "count" : "Integer",
    "time-duration" : "String"
  },
  "email-subject" : "String",
  "version" : "Integer",
  "sections" : {
    "section" : [ {
      "section-title" : "String",
      "count" : "Integer",
      "time-duration" : "Long",
      "filter-string" : "String",
      "formatted-filter" : {
        "serialVersionUID" : "long",
        "case-sensitive" : "boolean",
        "and" : [ ],
        "or" : [ ],
        "not" : [ ],
        "filter" : {
          "serialVersionUID" : "long",
          "key" : "String",
          "operator" : "String",
          "value" : [ "String" ]
        }
      },
      "end-time" : "Long",
      "section-description" : "String",
      "aggregation" : "String",
      "start-time" : "Long",
      "chart-type" : [ "PIE", "COLUMN", "COMPARISON_BAR", "TIMELINE", "AREA", "GEOMAP",
"LOGEVENT", "LOGCOLUMN", "GRID", "GROUPEDGRID", "TIMEGRID", "BAR", "TEXTGRID" ],
      "section-id" : "Integer",
      "time-unit" : "Integer",
      "display-table" : "Boolean"
    } ]
  },
  "description" : "String",
  "id" : "String",
  "name" : "String",
  "scheduler" : {
    "start-time" : "Long",
    "schedule-type" : [ "Minutes", "Hourly", "Daily", "Weekly", "Monthly", "Yearly", "Now", "Once" ],
    "re-occurence" : "Integer",
    "date-of-month" : "Integer",
    "end-time" : "Long",
    "days-of-week" : {
      "day-of-week" : [ "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday",
```


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```
"Saturday" ],
        "totalSize" : "Integer"
      }
    },
    "last-generated-time" : "Long",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "additional-emails" : "String",
    "job-failure-reason" : "String",
    "comments" : "String",
    "report-content-type" : [ "LOG", "POLICY_ANOMALY", "BANDWIDTH", "SDWAN_TENANT",
"SDWAN_SITE", "THREAT_ASSESSMENT" ],
    "reportUser" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<report-template>
   <policy-type>String</policy-type>
   <report-logo>
      <company-name>String</company-name>
      <logo-name>String</logo-name>
      <version>Integer</version>
      <definition-type>Hidden</definition-type>
      <definition-type>Predefined</definition-type>
      <definition-type>Custom</definition-type>
      <definition-type>All</definition-type>
      <file-name>String</file-name>
      <id>String</id>
   </report-logo>
   <report-type>DRAFT</report-type>
   <report-type>POLICY_STANDARD</report-type>
   <report-type>POLICY_UNIFIED</report-type>
   <job-id>String</job-id>
   <job-status>String</job-status>
   <policy-analysis-content>
      <firewall-policy>Integer</firewall-policy>
      <policyName>String</policyName>
      <anomalies>
         <anomalies>String</anomalies>
      </anomalies>
      <device-id>Integer</device-id>
      <unused-days>Integer</unused-days>
   </policy-analysis-content>
   <bandwidth-template-content>
      <count>Integer</count>
      <time-unit>Integer</time-unit>
      <time-duration>Long</time-duration>
      <start-time>Long</start-time>
      <end-time>Long</end-time>
      <report-type>String</report-type>
      <device-ids>Integer</device-ids>
   </bandwidth-template-content>
   <sdwan-report-content>
      <site-ids>String</site-ids>
      <filter-ids>String</filter-ids>
      <count>Integer</count>
      <time-duration>String</time-duration>
   </sdwan-report-content>
   <email-subject>String</email-subject>
   <version>Integer</version>
   <sections>
      <section>
         <section-title>String</section-title>
```


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```
      <count>Integer</count>
      <time-duration>Long</time-duration>
      <filter-string>String</filter-string>
      <formatted-filter>
        <serialVersionUID>long</serialVersionUID>
        <case-sensitive>boolean</case-sensitive>
        <filter>
          <serialVersionUID>long</serialVersionUID>
          <key>String</key>
          <operator>String</operator>
          <value>String</value>
        </filter>
      </formatted-filter>
      <end-time>Long</end-time>
      <section-description>String</section-description>
      <aggregation>String</aggregation>
      <start-time>Long</start-time>
      <chart-type>PIE</chart-type>
      <chart-type>COLUMN</chart-type>
      <chart-type>COMPARISON_BAR</chart-type>
      <chart-type>TIMELINE</chart-type>
      <chart-type>AREA</chart-type>
      <chart-type>GEOMAP</chart-type>
      <chart-type>LOGEVENT</chart-type>
      <chart-type>LOGCOLUMN</chart-type>
      <chart-type>GRID</chart-type>
      <chart-type>GROUPEDGRID</chart-type>
      <chart-type>TIMEGRID</chart-type>
      <chart-type>BAR</chart-type>
      <chart-type>TEXTGRID</chart-type>
      <section-id>Integer</section-id>
      <time-unit>Integer</time-unit>
      <display-table>Boolean</display-table>
    </section>
  </sections>
  <description>String</description>
  <id>String</id>
  <name>String</name>
  <scheduler>
    <start-time>Long</start-time>
    <schedule-type>Minutes</schedule-type>
    <schedule-type>Hourly</schedule-type>
    <schedule-type>Daily</schedule-type>
    <schedule-type>Weekly</schedule-type>
    <schedule-type>Monthly</schedule-type>
    <schedule-type>Yearly</schedule-type>
    <schedule-type>Now</schedule-type>
    <schedule-type>Once</schedule-type>
    <re-occurence>Integer</re-occurence>
    <date-of-month>Integer</date-of-month>
    <end-time>Long</end-time>
    <days-of-week>
      <day-of-week>Sunday</day-of-week>
      <day-of-week>Monday</day-of-week>
      <day-of-week>Tuesday</day-of-week>
      <day-of-week>Wednesday</day-of-week>
      <day-of-week>Thursday</day-of-week>
      <day-of-week>Friday</day-of-week>
      <day-of-week>Saturday</day-of-week>
      <totalSize>Integer</totalSize>
    </days-of-week>
  </scheduler>
  <last-generated-time>Long</last-generated-time>
  <definition-type>Hidden</definition-type>
```


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```
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <additional-emails>String</additional-emails>
  <job-failure-reason>String</job-failure-reason>
  <comments>String</comments>
  <report-content-type>LOG</report-content-type>
  <report-content-type>POLICY_ANOMALY</report-content-type>
  <report-content-type>BANDWIDTH</report-content-type>
  <report-content-type>SDWAN_TENANT</report-content-type>
  <report-content-type>SDWAN_SITE</report-content-type>
  <report-content-type>THREAT_ASSESSMENT</report-content-type>
  <reportUser>String</reportUser>
</report-template>
```

Sample JSON Output:

```
{
 "report-template" : {
   "policy-type" : "String",
   "created-by-user-name" : "String",
   "last-modified-time" : "Date",
   "report-logo" : {
     "created-by-user-name" : "String",
     "last-modified-time" : "Date",
     "created-time" : "Date",
     "domain-name" : "String",
     "company-name" : "String",
     "logo-name" : "String",
     "version" : "Integer",
     "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
     "last-modified-by-user-name" : "String",
     "domain-id" : "Integer",
     "file-name" : "String",
     "uri" : "String",
     "id" : "String"
   },
   "report-type" : [ "DRAFT", "POLICY_STANDARD", "POLICY_UNIFIED" ],
   "job-id" : "String",
   "job-status" : "String",
   "policy-analysis-content" : {
     "firewall-policy" : "Integer",
     "uri" : "String",
     "policyName" : "String",
     "anomalies" : {
       "anomalies" : [ "String" ]
     },
     "device-id" : "Integer",
     "unused-days" : "Integer"
   },
   "bandwidth-template-content" : {
     "count" : "Integer",
     "time-unit" : "Integer",
     "time-duration" : "Long",
     "start-time" : "Long",
     "end-time" : "Long",
     "report-type" : "String",
     "device-ids" : [ "Integer" ]
   },
   "sdwan-report-content" : {
     "site-ids" : [ "String" ],
     "filter-ids" : [ "String" ],
     "count" : "Integer",
     "time-duration" : "String"
   },
```


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```
    "email-subject" : "String",
    "version" : "Integer",
    "sections" : {
      "section" : [ {
        "section-title" : "String",
        "count" : "Integer",
        "time-duration" : "Long",
        "filter-string" : "String",
        "formatted-filter" : {
          "serialVersionUID" : "long",
          "case-sensitive" : "boolean",
          "and" : [ ],
          "or" : [ ],
          "not" : [ ],
          "filter" : {
            "serialVersionUID" : "long",
            "key" : "String",
            "operator" : "String",
            "value" : [ "String" ]
          }
        },
        "end-time" : "Long",
        "section-description" : "String",
        "aggregation" : "String",
        "start-time" : "Long",
        "chart-type" : [ "PIE", "COLUMN", "COMPARISON_BAR", "TIMELINE", "AREA", "GEOMAP",
"LOGEVENT", "LOGCOLUMN", "GRID", "GROUPEDGRID", "TIMEGRID", "BAR", "TEXTGRID" ],
        "section-id" : "Integer",
        "time-unit" : "Integer",
        "display-table" : "Boolean",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "description" : "String",
    "id" : "String",
    "domain-id" : "Integer",
    "name" : "String",
    "scheduler" : {
      "start-time" : "Long",
      "schedule-type" : [ "Minutes", "Hourly", "Daily", "Weekly", "Monthly", "Yearly", "Now", "Once" ],
      "re-occurence" : "Integer",
      "date-of-month" : "Integer",
      "end-time" : "Long",
      "uri" : "String",
      "days-of-week" : {
        "day-of-week" : [ "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday" ],
        "uri" : "String",
        "totalSize" : "Integer"
      }
    },
    "created-time" : "Date",
    "last-generated-time" : "Long",
    "domain-name" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "additional-emails" : "String",
    "last-modified-by-user-name" : "String",
    "job-failure-reason" : "String",
    "comments" : "String",
    "report-content-type" : [ "LOG", "POLICY_ANOMALY", "BANDWIDTH", "SDWAN_TENANT",
"SDWAN_SITE", "THREAT_ASSESSMENT" ],
    "uri" : "String",
    "reportUser" : "String"
```


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```
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<report-template>
  <policy-type>String</policy-type>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-time>Date</last-modified-time>
  <report-logo>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <created-time>Date</created-time>
    <domain-name>String</domain-name>
    <company-name>String</company-name>
    <logo-name>String</logo-name>
    <version>Integer</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-id>Integer</domain-id>
    <file-name>String</file-name>
    <uri>String</uri>
    <id>String</id>
  </report-logo>
  <report-type>DRAFT</report-type>
  <report-type>POLICY_STANDARD</report-type>
  <report-type>POLICY_UNIFIED</report-type>
  <job-id>String</job-id>
  <job-status>String</job-status>
  <policy-analysis-content>
    <firewall-policy>Integer</firewall-policy>
    <uri>String</uri>
    <policyName>String</policyName>
    <anomalies>
      <anomalies>String</anomalies>
    </anomalies>
    <device-id>Integer</device-id>
    <unused-days>Integer</unused-days>
  </policy-analysis-content>
  <bandwidth-template-content>
    <count>Integer</count>
    <time-unit>Integer</time-unit>
    <time-duration>Long</time-duration>
    <start-time>Long</start-time>
    <end-time>Long</end-time>
    <report-type>String</report-type>
    <device-ids>Integer</device-ids>
  </bandwidth-template-content>
  <sdwan-report-content>
    <site-ids>String</site-ids>
    <filter-ids>String</filter-ids>
    <count>Integer</count>
    <time-duration>String</time-duration>
  </sdwan-report-content>
```


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```
<email-subject>String</email-subject>
<version>Integer</version>
<sections>
  <section>
    <section-title>String</section-title>
    <count>Integer</count>
    <time-duration>Long</time-duration>
    <filter-string>String</filter-string>
    <formatted-filter>
      <serialVersionUID>long</serialVersionUID>
      <case-sensitive>boolean</case-sensitive>
      <filter>
        <serialVersionUID>long</serialVersionUID>
        <key>String</key>
        <operator>String</operator>
        <value>String</value>
      </filter>
    </formatted-filter>
    <end-time>Long</end-time>
    <section-description>String</section-description>
    <aggregation>String</aggregation>
    <start-time>Long</start-time>
    <chart-type>PIE</chart-type>
    <chart-type>COLUMN</chart-type>
    <chart-type>COMPARISON_BAR</chart-type>
    <chart-type>TIMELINE</chart-type>
    <chart-type>AREA</chart-type>
    <chart-type>GEOMAP</chart-type>
    <chart-type>LOGEVENT</chart-type>
    <chart-type>LOGCOLUMN</chart-type>
    <chart-type>GRID</chart-type>
    <chart-type>GROUPEDGRID</chart-type>
    <chart-type>TIMEGRID</chart-type>
    <chart-type>BAR</chart-type>
    <chart-type>TEXTGRID</chart-type>
    <section-id>Integer</section-id>
    <time-unit>Integer</time-unit>
    <display-table>Boolean</display-table>
    <uri>String</uri>
  </section>
  <uri>String</uri>
</sections>
<description>String</description>
<id>String</id>
<domain-id>Integer</domain-id>
<name>String</name>
<scheduler>
  <start-time>Long</start-time>
  <schedule-type>Minutes</schedule-type>
  <schedule-type>Hourly</schedule-type>
  <schedule-type>Daily</schedule-type>
  <schedule-type>Weekly</schedule-type>
  <schedule-type>Monthly</schedule-type>
  <schedule-type>Yearly</schedule-type>
  <schedule-type>Now</schedule-type>
  <schedule-type>Once</schedule-type>
  <re-occurence>Integer</re-occurence>
  <date-of-month>Integer</date-of-month>
  <end-time>Long</end-time>
  <uri>String</uri>
  <days-of-week>
    <day-of-week>Sunday</day-of-week>
    <day-of-week>Monday</day-of-week>
    <day-of-week>Tuesday</day-of-week>
```


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```
        <day-of-week>Wednesday</day-of-week>
        <day-of-week>Thursday</day-of-week>
        <day-of-week>Friday</day-of-week>
        <day-of-week>Saturday</day-of-week>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </days-of-week>
    </scheduler>
    <created-time>Date</created-time>
    <last-generated-time>Long</last-generated-time>
    <domain-name>String</domain-name>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <additional-emails>String</additional-emails>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <job-failure-reason>String</job-failure-reason>
    <comments>String</comments>
    <report-content-type>LOG</report-content-type>
    <report-content-type>POLICY_ANOMALY</report-content-type>
    <report-content-type>BANDWIDTH</report-content-type>
    <report-content-type>SDWAN_TENANT</report-content-type>
    <report-content-type>SDWAN_SITE</report-content-type>
    <report-content-type>THREAT_ASSESSMENT</report-content-type>
    <uri>String</uri>
    <reportUser>String</reportUser>
  </report-template>
```

Modify Report

This request is used to modify a report

URI	/api/juniper/seci/report-management/report-templates/{report-id}
HTTP method	PUT
Content-Type	application/vnd.juniper.seci.report-management.report-template+xml;version=1;charset=UTF-8 application/vnd.juniper.seci.report-management.report-template+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.seci.report-management.report-template+xml;version=1;q=0.01 application/vnd.juniper.seci.report-management.report-template+json;version=1;q=0.01
Access-Control	modifyReports

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Sample JSON Input


```
{
  "report-template" : {
    "policy-type" : "String",
    "report-logo" : {
      "company-name" : "String",
      "logo-name" : "String",
      "version" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "file-name" : "String",
      "id" : "String"
    },
    "report-type" : [ "DRAFT", "POLICY_STANDARD", "POLICY_UNIFIED" ],
    "job-id" : "String",
    "job-status" : "String",
    "policy-analysis-content" : {
      "firewall-policy" : "Integer",
      "policyName" : "String",
      "anomalies" : {
        "anomalies" : [ "String" ]
      },
      "device-id" : "Integer",
      "unused-days" : "Integer"
    },
    "bandwidth-template-content" : {
      "count" : "Integer",
      "time-unit" : "Integer",
      "time-duration" : "Long",
      "start-time" : "Long",
      "end-time" : "Long",
      "report-type" : "String",
      "device-ids" : [ "Integer" ]
    },
    "sdwan-report-content" : {
      "site-ids" : [ "String" ],
      "filter-ids" : [ "String" ],
      "count" : "Integer",
      "time-duration" : "String"
    },
    "email-subject" : "String",
    "version" : "Integer",
    "sections" : {
      "section" : [ {
        "section-title" : "String",
        "count" : "Integer",
        "time-duration" : "Long",
        "filter-string" : "String",
        "formatted-filter" : {
          "serialVersionUID" : "long",
          "case-sensitive" : "boolean",
          "and" : [ ],
          "or" : [ ],
          "not" : [ ],
          "filter" : {
            "serialVersionUID" : "long",
            "key" : "String",
            "operator" : "String",
            "value" : [ "String" ]
          }
        },
        "end-time" : "Long",
        "section-description" : "String",
        "aggregation" : "String",
```


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```
        "start-time" : "Long",
        "chart-type" : [ "PIE", "COLUMN", "COMPARISON_BAR", "TIMELINE", "AREA", "GEOMAP",
"LOGEVENT", "LOGCOLUMN", "GRID", "GROUPEDGRID", "TIMEGRID", "BAR", "TEXTGRID" ],
        "section-id" : "Integer",
        "time-unit" : "Integer",
        "display-table" : "Boolean"
      } ]
    },
    "description" : "String",
    "id" : "String",
    "name" : "String",
    "scheduler" : {
      "start-time" : "Long",
      "schedule-type" : [ "Minutes", "Hourly", "Daily", "Weekly", "Monthly", "Yearly", "Now", "Once" ],
      "re-occurence" : "Integer",
      "date-of-month" : "Integer",
      "end-time" : "Long",
      "days-of-week" : {
        "day-of-week" : [ "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday" ],
        "totalSize" : "Integer"
      }
    },
    "last-generated-time" : "Long",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "additional-emails" : "String",
    "job-failure-reason" : "String",
    "comments" : "String",
    "report-content-type" : [ "LOG", "POLICY_ANOMALY", "BANDWIDTH", "SDWAN_TENANT",
"SDWAN_SITE", "THREAT_ASSESSMENT" ],
    "reportUser" : "String"
  }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<report-template>
  <policy-type>String</policy-type>
  <report-logo>
    <company-name>String</company-name>
    <logo-name>String</logo-name>
    <version>Integer</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <file-name>String</file-name>
    <id>String</id>
  </report-logo>
  <report-type>DRAFT</report-type>
  <report-type>POLICY_STANDARD</report-type>
  <report-type>POLICY_UNIFIED</report-type>
  <job-id>String</job-id>
  <job-status>String</job-status>
  <policy-analysis-content>
    <firewall-policy>Integer</firewall-policy>
    <policyName>String</policyName>
    <anomalies>
      <anomalies>String</anomalies>
    </anomalies>
    <device-id>Integer</device-id>
    <unused-days>Integer</unused-days>
  </policy-analysis-content>
  <bandwidth-template-content>
```


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```
    <count>Integer</count>
    <time-unit>Integer</time-unit>
    <time-duration>Long</time-duration>
    <start-time>Long</start-time>
    <end-time>Long</end-time>
    <report-type>String</report-type>
    <device-ids>Integer</device-ids>
</bandwidth-template-content>
<sdwan-report-content>
    <site-ids>String</site-ids>
    <filter-ids>String</filter-ids>
    <count>Integer</count>
    <time-duration>String</time-duration>
</sdwan-report-content>
<email-subject>String</email-subject>
<version>Integer</version>
<sections>
    <section>
        <section-title>String</section-title>
        <count>Integer</count>
        <time-duration>Long</time-duration>
        <filter-string>String</filter-string>
        <formatted-filter>
            <serialVersionUID>long</serialVersionUID>
            <case-sensitive>boolean</case-sensitive>
            <filter>
                <serialVersionUID>long</serialVersionUID>
                <key>String</key>
                <operator>String</operator>
                <value>String</value>
            </filter>
        </formatted-filter>
        <end-time>Long</end-time>
        <section-description>String</section-description>
        <aggregation>String</aggregation>
        <start-time>Long</start-time>
        <chart-type>PIE</chart-type>
        <chart-type>COLUMN</chart-type>
        <chart-type>COMPARISON_BAR</chart-type>
        <chart-type>TIMELINE</chart-type>
        <chart-type>AREA</chart-type>
        <chart-type>GEOMAP</chart-type>
        <chart-type>LOGEVENT</chart-type>
        <chart-type>LOGCOLUMN</chart-type>
        <chart-type>GRID</chart-type>
        <chart-type>GROUPEDGRID</chart-type>
        <chart-type>TIMEGRID</chart-type>
        <chart-type>BAR</chart-type>
        <chart-type>TEXTGRID</chart-type>
        <section-id>Integer</section-id>
        <time-unit>Integer</time-unit>
        <display-table>Boolean</display-table>
    </section>
</sections>
<description>String</description>
<id>String</id>
<name>String</name>
<scheduler>
    <start-time>Long</start-time>
    <schedule-type>Minutes</schedule-type>
    <schedule-type>Hourly</schedule-type>
    <schedule-type>Daily</schedule-type>
    <schedule-type>Weekly</schedule-type>
    <schedule-type>Monthly</schedule-type>
```


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```
    <schedule-type>Yearly</schedule-type>
    <schedule-type>Now</schedule-type>
    <schedule-type>Once</schedule-type>
    <re-occurence>Integer</re-occurence>
    <date-of-month>Integer</date-of-month>
    <end-time>Long</end-time>
    <days-of-week>
      <day-of-week>Sunday</day-of-week>
      <day-of-week>Monday</day-of-week>
      <day-of-week>Tuesday</day-of-week>
      <day-of-week>Wednesday</day-of-week>
      <day-of-week>Thursday</day-of-week>
      <day-of-week>Friday</day-of-week>
      <day-of-week>Saturday</day-of-week>
      <totalSize>Integer</totalSize>
    </days-of-week>
  </scheduler>
  <last-generated-time>Long</last-generated-time>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <additional-emails>String</additional-emails>
  <job-failure-reason>String</job-failure-reason>
  <comments>String</comments>
  <report-content-type>LOG</report-content-type>
  <report-content-type>POLICY_ANOMALY</report-content-type>
  <report-content-type>BANDWIDTH</report-content-type>
  <report-content-type>SDWAN_TENANT</report-content-type>
  <report-content-type>SDWAN_SITE</report-content-type>
  <report-content-type>THREAT_ASSESSMENT</report-content-type>
  <reportUser>String</reportUser>
</report-template>
```

Sample JSON Output:

```
{
  "report-template" : {
    "policy-type" : "String",
    "created-by-user-name" : "String",
    "last-modified-time" : "Date",
    "report-logo" : {
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "created-time" : "Date",
      "domain-name" : "String",
      "company-name" : "String",
      "logo-name" : "String",
      "version" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "last-modified-by-user-name" : "String",
      "domain-id" : "Integer",
      "file-name" : "String",
      "uri" : "String",
      "id" : "String"
    },
    "report-type" : [ "DRAFT", "POLICY_STANDARD", "POLICY_UNIFIED" ],
    "job-id" : "String",
    "job-status" : "String",
    "policy-analysis-content" : {
      "firewall-policy" : "Integer",
      "uri" : "String",
      "policyName" : "String",
      "anomalies" : {
        "anomalies" : [ "String" ]
```


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```
    },
    "device-id" : "Integer",
    "unused-days" : "Integer"
  },
  "bandwidth-template-content" : {
    "count" : "Integer",
    "time-unit" : "Integer",
    "time-duration" : "Long",
    "start-time" : "Long",
    "end-time" : "Long",
    "report-type" : "String",
    "device-ids" : [ "Integer" ]
  },
  "sdwan-report-content" : {
    "site-ids" : [ "String" ],
    "filter-ids" : [ "String" ],
    "count" : "Integer",
    "time-duration" : "String"
  },
  "email-subject" : "String",
  "version" : "Integer",
  "sections" : {
    "section" : [ {
      "section-title" : "String",
      "count" : "Integer",
      "time-duration" : "Long",
      "filter-string" : "String",
      "formatted-filter" : {
        "serialVersionUID" : "long",
        "case-sensitive" : "boolean",
        "and" : [ ],
        "or" : [ ],
        "not" : [ ],
        "filter" : {
          "serialVersionUID" : "long",
          "key" : "String",
          "operator" : "String",
          "value" : [ "String" ]
        }
      },
      "end-time" : "Long",
      "section-description" : "String",
      "aggregation" : "String",
      "start-time" : "Long",
      "chart-type" : [ "PIE", "COLUMN", "COMPARISON_BAR", "TIMELINE", "AREA", "GEOMAP",
"LOGEVENT", "LOGCOLUMN", "GRID", "GROUPEDGRID", "TIMEGRID", "BAR", "TEXTGRID" ],
      "section-id" : "Integer",
      "time-unit" : "Integer",
      "display-table" : "Boolean",
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "description" : "String",
  "id" : "String",
  "domain-id" : "Integer",
  "name" : "String",
  "scheduler" : {
    "start-time" : "Long",
    "schedule-type" : [ "Minutes", "Hourly", "Daily", "Weekly", "Monthly", "Yearly", "Now", "Once" ],
    "re-occurence" : "Integer",
    "date-of-month" : "Integer",
    "end-time" : "Long",
    "uri" : "String",
```


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```
      "days-of-week" : {
        "day-of-week" : [ "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday" ],
        "uri" : "String",
        "totalSize" : "Integer"
      }
    },
    "created-time" : "Date",
    "last-generated-time" : "Long",
    "domain-name" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "additional-emails" : "String",
    "last-modified-by-user-name" : "String",
    "job-failure-reason" : "String",
    "comments" : "String",
    "report-content-type" : [ "LOG", "POLICY_ANOMALY", "BANDWIDTH", "SDWAN_TENANT",
"SDWAN_SITE", "THREAT_ASSESSMENT" ],
    "uri" : "String",
    "reportUser" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<report-template>
  <policy-type>String</policy-type>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-time>Date</last-modified-time>
  <report-logo>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-time>Date</last-modified-time>
    <created-time>Date</created-time>
    <domain-name>String</domain-name>
    <company-name>String</company-name>
    <logo-name>String</logo-name>
    <version>Integer</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-id>Integer</domain-id>
    <file-name>String</file-name>
    <uri>String</uri>
    <id>String</id>
  </report-logo>
  <report-type>DRAFT</report-type>
  <report-type>POLICY_STANDARD</report-type>
  <report-type>POLICY_UNIFIED</report-type>
  <job-id>String</job-id>
  <job-status>String</job-status>
  <policy-analysis-content>
    <firewall-policy>Integer</firewall-policy>
    <uri>String</uri>
    <policyName>String</policyName>
    <anomalies>
      <anomalies>String</anomalies>
    </anomalies>
    <device-id>Integer</device-id>
    <unused-days>Integer</unused-days>
  </policy-analysis-content>
  <bandwidth-template-content>
    <count>Integer</count>
```


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```
    <time-unit>Integer</time-unit>
    <time-duration>Long</time-duration>
    <start-time>Long</start-time>
    <end-time>Long</end-time>
    <report-type>String</report-type>
    <device-ids>Integer</device-ids>
</bandwidth-template-content>
<sdwan-report-content>
    <site-ids>String</site-ids>
    <filter-ids>String</filter-ids>
    <count>Integer</count>
    <time-duration>String</time-duration>
</sdwan-report-content>
<email-subject>String</email-subject>
<version>Integer</version>
<sections>
    <section>
        <section-title>String</section-title>
        <count>Integer</count>
        <time-duration>Long</time-duration>
        <filter-string>String</filter-string>
        <formatted-filter>
            <serialVersionUID>long</serialVersionUID>
            <case-sensitive>boolean</case-sensitive>
            <filter>
                <serialVersionUID>long</serialVersionUID>
                <key>String</key>
                <operator>String</operator>
                <value>String</value>
            </filter>
        </formatted-filter>
        <end-time>Long</end-time>
        <section-description>String</section-description>
        <aggregation>String</aggregation>
        <start-time>Long</start-time>
        <chart-type>PIE</chart-type>
        <chart-type>COLUMN</chart-type>
        <chart-type>COMPARISON_BAR</chart-type>
        <chart-type>TIMELINE</chart-type>
        <chart-type>AREA</chart-type>
        <chart-type>GEOMAP</chart-type>
        <chart-type>LOGEVENT</chart-type>
        <chart-type>LOGCOLUMN</chart-type>
        <chart-type>GRID</chart-type>
        <chart-type>GROUPEDGRID</chart-type>
        <chart-type>TIMEGRID</chart-type>
        <chart-type>BAR</chart-type>
        <chart-type>TEXTGRID</chart-type>
        <section-id>Integer</section-id>
        <time-unit>Integer</time-unit>
        <display-table>Boolean</display-table>
        <uri>String</uri>
    </section>
    <uri>String</uri>
</sections>
<description>String</description>
<id>String</id>
<domain-id>Integer</domain-id>
<name>String</name>
<scheduler>
    <start-time>Long</start-time>
    <schedule-type>Minutes</schedule-type>
    <schedule-type>Hourly</schedule-type>
    <schedule-type>Daily</schedule-type>
```


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```
    <schedule-type>Weekly</schedule-type>
    <schedule-type>Monthly</schedule-type>
    <schedule-type>Yearly</schedule-type>
    <schedule-type>Now</schedule-type>
    <schedule-type>Once</schedule-type>
    <re-occurence>Integer</re-occurence>
    <date-of-month>Integer</date-of-month>
    <end-time>Long</end-time>
    <uri>String</uri>
    <days-of-week>
      <day-of-week>Sunday</day-of-week>
      <day-of-week>Monday</day-of-week>
      <day-of-week>Tuesday</day-of-week>
      <day-of-week>Wednesday</day-of-week>
      <day-of-week>Thursday</day-of-week>
      <day-of-week>Friday</day-of-week>
      <day-of-week>Saturday</day-of-week>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </days-of-week>
  </scheduler>
  <created-time>Date</created-time>
  <last-generated-time>Long</last-generated-time>
  <domain-name>String</domain-name>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <additional-emails>String</additional-emails>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <job-failure-reason>String</job-failure-reason>
  <comments>String</comments>
  <report-content-type>LOG</report-content-type>
  <report-content-type>POLICY_ANOMALY</report-content-type>
  <report-content-type>BANDWIDTH</report-content-type>
  <report-content-type>SDWAN_TENANT</report-content-type>
  <report-content-type>SDWAN_SITE</report-content-type>
  <report-content-type>THREAT_ASSESSMENT</report-content-type>
  <uri>String</uri>
  <reportUser>String</reportUser>
</report-template>
```

Delete Report By ID

This request is used to delete a particular report.

URI	/api/juniper/seci/report-management/report-templates/{report-id}
HTTP method	DELETE
Content-Type	None

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Accept-Type	application/vnd.juniper.seci.report-management.delete-report-template-response+xml;version=1;q=0.01 application/vnd.juniper.seci.report-management.delete-report-template-response+json;version=1;q=0.01
Access-Control	deleteReports

Sample JSON Output:

```
{
  "delete-report-template-response" : {
    "value" : "Boolean"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<delete-report-template-response>
   <value>Boolean</value>
</delete-report-template-response>
```

Run Report

This request is used to run a particular report.

URI	/api/juniper/seci/report-management/run-report
HTTP method	POST
Content-Type	application/vnd.juniper.seci.report-management.report-template+xml;version=1;charset=UTF-8 application/vnd.juniper.seci.report-management.report-template+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.seci.report-management.preview-report-response+xml;version=1;q=0.01 application/vnd.juniper.seci.report-management.preview-report-response+json;version=1;q=0.01

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Sample JSON Input


```
{
  "report-template" : {
    "policy-type" : "String",
    "report-logo" : {
      "company-name" : "String",
      "logo-name" : "String",
      "version" : "Integer",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "file-name" : "String",
      "id" : "String"
    },
    "report-type" : [ "DRAFT", "POLICY_STANDARD", "POLICY_UNIFIED" ],
    "job-id" : "String",
    "job-status" : "String",
    "policy-analysis-content" : {
      "firewall-policy" : "Integer",
      "policyName" : "String",
      "anomalies" : {
        "anomalies" : [ "String" ]
      },
      "device-id" : "Integer",
      "unused-days" : "Integer"
    },
    "bandwidth-template-content" : {
      "count" : "Integer",
      "time-unit" : "Integer",
      "time-duration" : "Long",
      "start-time" : "Long",
      "end-time" : "Long",
      "report-type" : "String",
      "device-ids" : [ "Integer" ]
    },
    "sdwan-report-content" : {
      "site-ids" : [ "String" ],
      "filter-ids" : [ "String" ],
      "count" : "Integer",
      "time-duration" : "String"
    },
    "email-subject" : "String",
    "version" : "Integer",
    "sections" : {
      "section" : [ {
        "section-title" : "String",
        "count" : "Integer",
        "time-duration" : "Long",
        "filter-string" : "String",
        "formatted-filter" : {
          "serialVersionUID" : "long",
          "case-sensitive" : "boolean",
          "and" : [ ],
          "or" : [ ],
          "not" : [ ],
          "filter" : {
            "serialVersionUID" : "long",
            "key" : "String",
            "operator" : "String",
            "value" : [ "String" ]
```


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```
        }
       },
       "end-time" : "Long",
       "section-description" : "String",
       "aggregation" : "String",
       "start-time" : "Long",
       "chart-type" : [ "PIE", "COLUMN", "COMPARISON_BAR", "TIMELINE", "AREA", "GEOMAP",
"LOGEVENT", "LOGCOLUMN", "GRID", "GROUPEDGRID", "TIMEGRID", "BAR", "TEXTGRID" ],
       "section-id" : "Integer",
       "time-unit" : "Integer",
       "display-table" : "Boolean"
     } ]
   },
   "description" : "String",
   "id" : "String",
   "name" : "String",
   "scheduler" : {
     "start-time" : "Long",
     "schedule-type" : [ "Minutes", "Hourly", "Daily", "Weekly", "Monthly", "Yearly", "Now", "Once" ],
     "re-occurence" : "Integer",
     "date-of-month" : "Integer",
     "end-time" : "Long",
     "days-of-week" : {
       "day-of-week" : [ "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday" ],
       "totalSize" : "Integer"
     }
   },
   "last-generated-time" : "Long",
   "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
   "additional-emails" : "String",
   "job-failure-reason" : "String",
   "comments" : "String",
   "report-content-type" : [ "LOG", "POLICY_ANOMALY", "BANDWIDTH", "SDWAN_TENANT",
"SDWAN_SITE", "THREAT_ASSESSMENT" ],
   "reportUser" : "String"
 }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<report-template>
  <policy-type>String</policy-type>
  <report-logo>
    <company-name>String</company-name>
    <logo-name>String</logo-name>
    <version>Integer</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <file-name>String</file-name>
    <id>String</id>
  </report-logo>
  <report-type>DRAFT</report-type>
  <report-type>POLICY_STANDARD</report-type>
  <report-type>POLICY_UNIFIED</report-type>
  <job-id>String</job-id>
  <job-status>String</job-status>
  <policy-analysis-content>
    <firewall-policy>Integer</firewall-policy>
    <policyName>String</policyName>
    <anomalies>
      <anomalies>String</anomalies>
    </anomalies>
```


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```
    <device-id>Integer</device-id>
    <unused-days>Integer</unused-days>
</policy-analysis-content>
<bandwidth-template-content>
    <count>Integer</count>
    <time-unit>Integer</time-unit>
    <time-duration>Long</time-duration>
    <start-time>Long</start-time>
    <end-time>Long</end-time>
    <report-type>String</report-type>
    <device-ids>Integer</device-ids>
</bandwidth-template-content>
<sdwan-report-content>
    <site-ids>String</site-ids>
    <filter-ids>String</filter-ids>
    <count>Integer</count>
    <time-duration>String</time-duration>
</sdwan-report-content>
<email-subject>String</email-subject>
<version>Integer</version>
<sections>
    <section>
        <section-title>String</section-title>
        <count>Integer</count>
        <time-duration>Long</time-duration>
        <filter-string>String</filter-string>
        <formatted-filter>
            <serialVersionUID>long</serialVersionUID>
            <case-sensitive>boolean</case-sensitive>
            <filter>
                <serialVersionUID>long</serialVersionUID>
                <key>String</key>
                <operator>String</operator>
                <value>String</value>
            </filter>
        </formatted-filter>
        <end-time>Long</end-time>
        <section-description>String</section-description>
        <aggregation>String</aggregation>
        <start-time>Long</start-time>
        <chart-type>PIE</chart-type>
        <chart-type>COLUMN</chart-type>
        <chart-type>COMPARISON_BAR</chart-type>
        <chart-type>TIMELINE</chart-type>
        <chart-type>AREA</chart-type>
        <chart-type>GEOMAP</chart-type>
        <chart-type>LOGEVENT</chart-type>
        <chart-type>LOGCOLUMN</chart-type>
        <chart-type>GRID</chart-type>
        <chart-type>GROUPEDGRID</chart-type>
        <chart-type>TIMEGRID</chart-type>
        <chart-type>BAR</chart-type>
        <chart-type>TEXTGRID</chart-type>
        <section-id>Integer</section-id>
        <time-unit>Integer</time-unit>
        <display-table>Boolean</display-table>
    </section>
</sections>
<description>String</description>
<id>String</id>
<name>String</name>
<scheduler>
    <start-time>Long</start-time>
    <schedule-type>Minutes</schedule-type>
```


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```
      <schedule-type>Hourly</schedule-type>
      <schedule-type>Daily</schedule-type>
      <schedule-type>Weekly</schedule-type>
      <schedule-type>Monthly</schedule-type>
      <schedule-type>Yearly</schedule-type>
      <schedule-type>Now</schedule-type>
      <schedule-type>Once</schedule-type>
      <re-occurence>Integer</re-occurence>
      <date-of-month>Integer</date-of-month>
      <end-time>Long</end-time>
      <days-of-week>
        <day-of-week>Sunday</day-of-week>
        <day-of-week>Monday</day-of-week>
        <day-of-week>Tuesday</day-of-week>
        <day-of-week>Wednesday</day-of-week>
        <day-of-week>Thursday</day-of-week>
        <day-of-week>Friday</day-of-week>
        <day-of-week>Saturday</day-of-week>
        <totalSize>Integer</totalSize>
      </days-of-week>
    </scheduler>
    <last-generated-time>Long</last-generated-time>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <additional-emails>String</additional-emails>
    <job-failure-reason>String</job-failure-reason>
    <comments>String</comments>
    <report-content-type>LOG</report-content-type>
    <report-content-type>POLICY_ANOMALY</report-content-type>
    <report-content-type>BANDWIDTH</report-content-type>
    <report-content-type>SDWAN_TENANT</report-content-type>
    <report-content-type>SDWAN_SITE</report-content-type>
    <report-content-type>THREAT_ASSESSMENT</report-content-type>
    <reportUser>String</reportUser>
</report-template>
```

Sample JSON Output:

```
{
  "preview-report-response" : {
    "file-name" : "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<preview-report-response>
    <file-name>String</file-name>
</preview-report-response>
```


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CHAPTER 55

Application Statistics RESTful Web Services

The following opertions can be performed using Secuirty Director Application Statistics RESTful Web Services

Delete Saved Query Builder Filter Definition

Deletes an existing user-defined query builder filter configuration by ID.

URI	/api/juniper/appvisibility/application-statistics/delete-query-builder-filter/{id}
HTTP method	DELETE
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	null

Sample JSON Output: `{}`

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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Get Distinct Application Names List

Retrieve a distinct list of application names within a specified time range and devices.

URI	/api/juniper/appvisibility/application-statistics/application-list?startTime=long&endTime=long&_search=String&deviceIds=String
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	null

Sample JSON Output:

```
{
  "response" : {
    "serialVersionUID" : "long",
    "name" : "String",
    "value" : "Long",
    "result" : [ "String" ]
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<response>
   <serialVersionUID>long</serialVersionUID>
   <name>String</name>
   <value>Long</value>
   <result>String</result>
</response>
```


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Get Time Series information about applicaiton usage

This request can be used to fetch the time series data of application usage

URI	/api/juniper/appvisibility/application-statistics/time-aggregate
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	ViewAppStats

Sample JSON Input

```
{
  "request" : {
    "aggregation-attributes" : "String",
    "time-interval" : "String",
    "size" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<request>
   <aggregation-attributes>String</aggregation-attributes>
   <time-interval>String</time-interval>
   <size>int</size>
</request>
```

Sample JSON Output:

```
{
  "response" : {
    "header" : {
      "key" : "String",
      "value" : [ "String" ],
      "result-count" : "Integer"
    },
    "result" : [ {
      "time-value" : [ {
        "key" : "String",
        "value" : "long"
      } ]
```


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```
  } ]
 }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<response>
  <header>
    <key>String</key>
    <value>String</value>
    <result-count>Integer</result-count>
  </header>
  <result>
    <time-value>
      <key>String</key>
      <value>long</value>
    </time-value>
  </result>
</response>
```

Export Application Statistics to CSV

Initiates an export of application statistics to a CSV file.

URI	/api/juniper/appvisibility/application-statistics/csv-export-application?uuid=String&startTime=long&endTime=long
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	null

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Sample JSON Input

```
{
  "id-list" : {
    "ids" : [ "Integer" ],
    "total" : "int"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
   <total>int</total>
</id-list>
```

Retrieve Query Builder Filter Options

Get a list of available filter options for constructing application statistics queries.

URI	/api/juniper/appvisibility/application-statistics/query-builder-filter/?startTime=long&endTime=long&_search=String&deviceIds=String
HTTP method	GET
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	null

Sample JSON Output:

```
{ }
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Get Detailed Application Statistics for given application.

This request is used to get bandwidth used by application, with user details, as detected by SRX using application tracking feature.

URI	/api/juniper/appvisibility/application-statistics/application-detail?applicationName=String&startTime=long&endTime=long&deviceIds=String
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	null

Sample JSON Output:

```
{
  "response" : {
    "serialVersionUID" : "long",
    "result" : [ {
      "category" : "String",
      "sub-category" : "String",
      "characteristics" : [ "String" ],
      "risk-level" : "String",
      "destinationInterface" : "String",
      "name" : "String",
      "value" : "Long",
      "users" : [ {
        "name" : "String",
        "value" : "Long",
        "session-count" : "Long",
        "name-type" : "String",
        "applications" : { },
        "volume" : "Long",
        "number-of-blocks" : "long",
        "ports" : "long",
        "status" : "String",
        "firewall-name" : "String",
```


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```
      "source-ip" : "String"
    } ],
    "session-count" : "Long",
    "volume" : "Long",
    "app-id" : "String",
    "name-type" : "String",
    "time" : "long",
    "number-of-blocks" : "Long",
    "sourceIp" : "String",
    "usersCount" : "int",
    "firewall-rule" : [ "String" ],
    "firewall-rule-count" : "int",
    "ports" : "long",
    "status" : [ "String" ],
    "source-ips" : [ "String" ]
  } ],
  "volume" : "Long",
  "session-count" : "Long",
  "name" : "String",
  "total-records" : "int",
  "category" : "String",
  "sub-category" : "String",
  "characteristics" : [ "String" ],
  "risk-level" : "String",
  "number-of-blocks" : "Long",
  "sourceip" : "Long",
  "queryBuilder" : [ {
    "serialVersionUID" : "long",
    "result" : [ {
      "category" : "String",
      "sub-category" : "String",
      "characteristics" : [ "String" ],
      "risk-level" : "String",
      "destinationInterface" : "String",
      "name" : "String",
      "value" : "Long",
      "users" : [ {
        "name" : "String",
        "value" : "Long",
        "session-count" : "Long",
        "name-type" : "String",
        "applications" : { },
        "volume" : "Long",
        "number-of-blocks" : "long",
        "ports" : "long",
        "status" : "String",
        "firewall-name" : "String",
        "source-ip" : "String"
      } ],
      "session-count" : "Long",
      "volume" : "Long",
      "app-id" : "String",
      "name-type" : "String",
      "time" : "long",
      "number-of-blocks" : "Long",
      "sourceIp" : "String",
      "usersCount" : "int",
      "firewall-rule" : [ "String" ],
      "firewall-rule-count" : "int",
      "ports" : "long",
      "status" : [ "String" ],
      "source-ips" : [ "String" ]
    } ],
    "volume" : "Long",
```


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```
      "session-count" : "Long",
      "name" : "String",
      "total-records" : "int",
      "category" : "String",
      "sub-category" : "String",
      "characteristics" : [ "String" ],
      "risk-level" : "String",
      "number-of-blocks" : "Long",
      "users" : "String",
      "sourceips" : "String",
      "destinationips" : "String",
      "rawApplication" : "String"
    } ],
    "users" : "String",
    "sourceips" : "String",
    "destinationips" : "String",
    "rawApplication" : "String"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<response>
  <serialVersionUID>long</serialVersionUID>
  <result>
    <category>String</category>
    <sub-category>String</sub-category>
    <characteristics>String</characteristics>
    <risk-level>String</risk-level>
    <destinationInterface>String</destinationInterface>
    <name>String</name>
    <value>Long</value>
    <users>
      <name>String</name>
      <value>Long</value>
      <session-count>Long</session-count>
      <name-type>String</name-type>
      <applications/>
      <volume>Long</volume>
      <number-of-blocks>long</number-of-blocks>
      <ports>long</ports>
      <status>String</status>
      <firewall-name>String</firewall-name>
      <source-ip>String</source-ip>
    </users>
    <session-count>Long</session-count>
    <volume>Long</volume>
    <app-id>String</app-id>
    <name-type>String</name-type>
    <time>long</time>
    <number-of-blocks>Long</number-of-blocks>
    <sourceIp>String</sourceIp>
    <usersCount>int</usersCount>
    <firewall-rule>String</firewall-rule>
    <firewall-rule-count>int</firewall-rule-count>
    <ports>long</ports>
    <status>String</status>
    <source-ips>String</source-ips>
  </result>
  <volume>Long</volume>
  <session-count>Long</session-count>
  <name>String</name>
  <total-records>int</total-records>
```


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```
  <category>String</category>
  <sub-category>String</sub-category>
  <characteristics>String</characteristics>
  <risk-level>String</risk-level>
  <number-of-blocks>Long</number-of-blocks>
  <sourceip>Long</sourceip>
  <queryBuilder>
    <serialVersionUID>long</serialVersionUID>
    <result>
      <category>String</category>
      <sub-category>String</sub-category>
      <characteristics>String</characteristics>
      <risk-level>String</risk-level>
      <destinationInterface>String</destinationInterface>
      <name>String</name>
      <value>Long</value>
      <users>
        <name>String</name>
        <value>Long</value>
        <session-count>Long</session-count>
        <name-type>String</name-type>
        <applications/>
        <volume>Long</volume>
        <number-of-blocks>long</number-of-blocks>
        <ports>long</ports>
        <status>String</status>
        <firewall-name>String</firewall-name>
        <source-ip>String</source-ip>
      </users>
      <session-count>Long</session-count>
      <volume>Long</volume>
      <app-id>String</app-id>
      <name-type>String</name-type>
      <time>long</time>
      <number-of-blocks>Long</number-of-blocks>
      <sourceIp>String</sourceIp>
      <usersCount>int</usersCount>
      <firewall-rule>String</firewall-rule>
      <firewall-rule-count>int</firewall-rule-count>
      <ports>long</ports>
      <status>String</status>
      <source-ips>String</source-ips>
    </result>
    <volume>Long</volume>
    <session-count>Long</session-count>
    <name>String</name>
    <total-records>int</total-records>
    <category>String</category>
    <sub-category>String</sub-category>
    <characteristics>String</characteristics>
    <risk-level>String</risk-level>
    <number-of-blocks>Long</number-of-blocks>
    <users>String</users>
    <sourceips>String</sourceips>
    <destinationips>String</destinationips>
    <rawApplication>String</rawApplication>
  </queryBuilder>
  <users>String</users>
  <sourceips>String</sourceips>
  <destinationips>String</destinationips>
  <rawApplication>String</rawApplication>
</response>
```


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Get Detailed Source IP based Statistics

This request is used to get the details of bandwith for each application for given ip address, as detected by SRX using application tracking feature.

URI	/api/juniper/appvisibility/application-statistics/source/?sourceParam=String&startTime=long&endTime=long&_search=String&deviceIds=String
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	null

Sample JSON Output:


```
{
  "response" : {
    "serialVersionUID" : "long",
    "result" : [ {
      "name" : "String",
      "value" : "Long",
      "session-count" : "Long",
      "name-type" : "String",
      "applications" : { },
      "volume" : "Long",
      "number-of-blocks" : "long",
      "ports" : "long",
      "status" : "String",
      "firewall-name" : "String",
      "source-ip" : "String"
    } ],
    "volume" : "Long",
    "session-count" : "Long",
    "name" : "String",
    "total-records" : "int",
    "applications" : "String"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<response>
  <serialVersionUID>long</serialVersionUID>
  <result>
    <name>String</name>
    <value>Long</value>
    <session-count>Long</session-count>
    <name-type>String</name-type>
    <applications/>
    <volume>Long</volume>
    <number-of-blocks>long</number-of-blocks>
    <ports>long</ports>
    <status>String</status>
    <firewall-name>String</firewall-name>
    <source-ip>String</source-ip>
  </result>
  <volume>Long</volume>
  <session-count>Long</session-count>
  <name>String</name>
  <total-records>int</total-records>
  <applications>String</applications>
</response>
```

Get Count Of Monitor About Application

Count of all monitoring

URI	/api/juniper/appvisibility/application-statistics/count-monitoring/?count=String&startTime=long&endTime=long&_search=List&deviceIds=Strin
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	null

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Sample JSON Output:


```
{
  "CountMonitoring" : {
    "serialVersionUID" : "long",
    "applicationCount" : "long",
    "threatsCount" : "long",
    "contentsCount" : "long",
    "URLCount" : "long",
    "sourceIpCount" : "long",
    "destinationIpCount" : "long",
    "deviceId" : "String",
    "domainId" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<CountMonitoring>
   <serialVersionUID>long</serialVersionUID>
   <applicationCount>long</applicationCount>
   <threatsCount>long</threatsCount>
   <contentsCount>long</contentsCount>
   <URLCount>long</URLCount>
   <sourceIpCount>long</sourceIpCount>
   <destinationIpCount>long</destinationIpCount>
   <deviceId>String</deviceId>
   <domainId>int</domainId>
</CountMonitoring>
```


Get Filtered Application Statistics based on Query Builder

Retrieve Filtered Application Statistics using Query Builder Criteria

URI	/api/juniper/appvisibility/application-statistics/query-builder/?key=String&operator=String&value=List&startTime=long&endTime=long&_search=String&deviceIds=String
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	null

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Sample JSON Output:


```
{
  "filters" : {
    "serialVersionUID" : "long",
    "case-sensitive" : "boolean",
    "and" : [ ],
    "or" : [ ],
    "not" : [ ],
    "filter" : {
      "serialVersionUID" : "long",
      "key" : "String",
      "operator" : "String",
      "value" : [ "String" ]
    },
    "applicationName" : [ "String" ],
    "countMonitoring" : {
      "serialVersionUID" : "long",
      "applicationCount" : "long",
      "threatsCount" : "long",
      "contentsCount" : "long",
      "URLCount" : "long",
      "sourceIpCount" : "long",
      "destinationIpCount" : "long",
      "deviceId" : "String",
      "domainId" : "int"
    }
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<filters>
  <serialVersionUID>long</serialVersionUID>
  <case-sensitive>boolean</case-sensitive>
  <filter>
    <serialVersionUID>long</serialVersionUID>
    <key>String</key>
    <operator>String</operator>
    <value>String</value>
  </filter>
  <applicationName>String</applicationName>
  <countMonitoring>
    <serialVersionUID>long</serialVersionUID>
    <applicationCount>long</applicationCount>
    <threatsCount>long</threatsCount>
    <contentsCount>long</contentsCount>
    <URLCount>long</URLCount>
    <sourceIpCount>long</sourceIpCount>
    <destinationIpCount>long</destinationIpCount>
    <deviceId>String</deviceId>
    <domainId>int</domainId>
  </countMonitoring>
</filters>
```


Execute Application Visibility Logs Query for Grid Display

Executes a query to retrieve application visibility logs and data for display in a grid format.

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URI	/api/juniper/appvisibility/application-statistics/query-builder-logs/appvisibility
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	null

Sample JSON Input


```
{
  "request" : {
    "aggregations" : [ "String" ],
    "aggregation" : "String",
    "aggregation-attributes" : [ "String" ],
    "time-interval" : "String",
    "size" : "int",
    "from" : "int",
    "search" : "String",
    "order" : "String",
    "slots" : "int",
    "filters" : {
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      },
      "applicationName" : [ "String" ],
      "countMonitoring" : {
        "serialVersionUID" : "long",
        "applicationCount" : "long",
        "threatsCount" : "long",
        "contentsCount" : "long",
        "URLCount" : "long",
        "sourceIpCount" : "long",
        "destinationIpCount" : "long",
        "deviceId" : "String",
        "domainId" : "int"
      }
    },
    "sort" : "String",
    "device-ids" : [ "String" ],
    "include-fields" : [ "String" ],
```


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```
    "exclude-fields" : [ "String" ],
    "resolve-addresses" : "boolean",
    "resolve-event-name" : "boolean",
    "is-session" : "boolean",
    "filterTxt" : "String",
    "aggregation-fields" : [ "String" ],
    "job-id" : "String",
    "all-domains" : "boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <aggregations>String</aggregations>
  <aggregation>String</aggregation>
  <aggregation-attributes>String</aggregation-attributes>
  <time-interval>String</time-interval>
  <size>int</size>
  <from>int</from>
  <search>String</search>
  <order>String</order>
  <slots>int</slots>
  <filters>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
      <serialVersionUID>long</serialVersionUID>
      <key>String</key>
      <operator>String</operator>
      <value>String</value>
    </filter>
    <applicationName>String</applicationName>
    <countMonitoring>
      <serialVersionUID>long</serialVersionUID>
      <applicationCount>long</applicationCount>
      <threatsCount>long</threatsCount>
      <contentsCount>long</contentsCount>
      <URLCount>long</URLCount>
      <sourceIpCount>long</sourceIpCount>
      <destinationIpCount>long</destinationIpCount>
      <deviceId>String</deviceId>
      <domainId>int</domainId>
    </countMonitoring>
  </filters>
  <sort>String</sort>
  <device-ids>String</device-ids>
  <include-fields>String</include-fields>
  <exclude-fields>String</exclude-fields>
  <resolve-addresses>boolean</resolve-addresses>
  <resolve-event-name>boolean</resolve-event-name>
  <is-session>boolean</is-session>
  <filterTxt>String</filterTxt>
  <aggregation-fields>String</aggregation-fields>
  <job-id>String</job-id>
  <all-domains>boolean</all-domains>
</request>
```


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Sample JSON Output:

```
{ }
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Get Count of Monitored Applications

Retrieves the count of applications based on monitoring data and specified query criteria.

URI	/api/juniper/appvisibility/application-statistics/count-monitoring-application/
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	null

Sample JSON Input

```
{
  "request" : {
    "aggregations" : [ "String" ],
    "aggregation" : "String",
    "aggregation-attributes" : [ "String" ],
    "time-interval" : "String",
    "size" : "int",
    "from" : "int",
    "search" : "String",
    "order" : "String",
    "slots" : "int",
    "filters" : {
```


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```
    "serialVersionUID" : "long",
    "case-sensitive" : "boolean",
    "and" : [ ],
    "or" : [ ],
    "not" : [ ],
    "filter" : {
      "serialVersionUID" : "long",
      "key" : "String",
      "operator" : "String",
      "value" : [ "String" ]
    },
    "applicationName" : [ "String" ],
    "countMonitoring" : {
      "serialVersionUID" : "long",
      "applicationCount" : "long",
      "threatsCount" : "long",
      "contentsCount" : "long",
      "URLCount" : "long",
      "sourceIpCount" : "long",
      "destinationIpCount" : "long",
      "deviceId" : "String",
      "domainId" : "int"
    }
  },
  "sort" : "String",
  "device-ids" : [ "String" ],
  "include-fields" : [ "String" ],
  "exclude-fields" : [ "String" ],
  "resolve-addresses" : "boolean",
  "resolve-event-name" : "boolean",
  "is-session" : "boolean",
  "filterTxt" : "String",
  "aggregation-fields" : [ "String" ],
  "job-id" : "String",
  "all-domains" : "boolean"
 }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <aggregations>String</aggregations>
  <aggregation>String</aggregation>
  <aggregation-attributes>String</aggregation-attributes>
  <time-interval>String</time-interval>
  <size>int</size>
  <from>int</from>
  <search>String</search>
  <order>String</order>
  <slots>int</slots>
  <filters>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
      <serialVersionUID>long</serialVersionUID>
      <key>String</key>
      <operator>String</operator>
      <value>String</value>
    </filter>
    <applicationName>String</applicationName>
    <countMonitoring>
      <serialVersionUID>long</serialVersionUID>
      <applicationCount>long</applicationCount>
      <threatsCount>long</threatsCount>
```


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```
        <contentsCount>long</contentsCount>
        <URLCount>long</URLCount>
        <sourceIpCount>long</sourceIpCount>
        <destinationIpCount>long</destinationIpCount>
        <deviceId>String</deviceId>
        <domainId>int</domainId>
      </countMonitoring>
    </filters>
    <sort>String</sort>
    <device-ids>String</device-ids>
    <include-fields>String</include-fields>
    <exclude-fields>String</exclude-fields>
    <resolve-addresses>boolean</resolve-addresses>
    <resolve-event-name>boolean</resolve-event-name>
    <is-session>boolean</is-session>
    <filterTxt>String</filterTxt>
    <aggregation-fields>String</aggregation-fields>
    <job-id>String</job-id>
    <all-domains>boolean</all-domains>
</request>
```

Sample JSON Output:

```
{
  "CountMonitoring" : {
    "serialVersionUID" : "long",
    "applicationCount" : "long",
    "threatsCount" : "long",
    "contentsCount" : "long",
    "URLCount" : "long",
    "sourceIpCount" : "long",
    "destinationIpCount" : "long",
    "deviceId" : "String",
    "domainId" : "int"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<CountMonitoring>
    <serialVersionUID>long</serialVersionUID>
    <applicationCount>long</applicationCount>
    <threatsCount>long</threatsCount>
    <contentsCount>long</contentsCount>
    <URLCount>long</URLCount>
    <sourceIpCount>long</sourceIpCount>
    <destinationIpCount>long</destinationIpCount>
    <deviceId>String</deviceId>
    <domainId>int</domainId>
</CountMonitoring>
```

Execute Source IP Logs Query for Grid Display

Executes a query to retrieve source IP related logs and data for display in a grid format.

URI	/api/juniper/appvisibility/application-statistics/query-builder-logs/source

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HTTP method	POST
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	null

Sample JSON Input


```
{
  "request" : {
    "aggregations" : [ "String" ],
    "aggregation" : "String",
    "aggregation-attributes" : [ "String" ],
    "time-interval" : "String",
    "size" : "int",
    "from" : "int",
    "search" : "String",
    "order" : "String",
    "slots" : "int",
    "filters" : {
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      },
      "applicationName" : [ "String" ],
      "countMonitoring" : {
        "serialVersionUID" : "long",
        "applicationCount" : "long",
        "threatsCount" : "long",
        "contentsCount" : "long",
        "URLCount" : "long",
        "sourceIpCount" : "long",
        "destinationIpCount" : "long",
        "deviceId" : "String",
        "domainId" : "int"
      }
    },
    "sort" : "String",
    "device-ids" : [ "String" ],
    "include-fields" : [ "String" ],
    "exclude-fields" : [ "String" ],
    "resolve-addresses" : "boolean",
    "resolve-event-name" : "boolean",
    "is-session" : "boolean",
    "filterTxt" : "String",
```


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```
    "aggregation-fields" : [ "String" ],
    "job-id" : "String",
    "all-domains" : "boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <aggregations>String</aggregations>
  <aggregation>String</aggregation>
  <aggregation-attributes>String</aggregation-attributes>
  <time-interval>String</time-interval>
  <size>int</size>
  <from>int</from>
  <search>String</search>
  <order>String</order>
  <slots>int</slots>
  <filters>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
      <serialVersionUID>long</serialVersionUID>
      <key>String</key>
      <operator>String</operator>
      <value>String</value>
    </filter>
    <applicationName>String</applicationName>
    <countMonitoring>
      <serialVersionUID>long</serialVersionUID>
      <applicationCount>long</applicationCount>
      <threatsCount>long</threatsCount>
      <contentsCount>long</contentsCount>
      <URLCount>long</URLCount>
      <sourceIpCount>long</sourceIpCount>
      <destinationIpCount>long</destinationIpCount>
      <deviceId>String</deviceId>
      <domainId>int</domainId>
    </countMonitoring>
  </filters>
  <sort>String</sort>
  <device-ids>String</device-ids>
  <include-fields>String</include-fields>
  <exclude-fields>String</exclude-fields>
  <resolve-addresses>boolean</resolve-addresses>
  <resolve-event-name>boolean</resolve-event-name>
  <is-session>boolean</is-session>
  <filterTxt>String</filterTxt>
  <aggregation-fields>String</aggregation-fields>
  <job-id>String</job-id>
  <all-domains>boolean</all-domains>
</request>
```


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Sample JSON Output:

```
{ }
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Execute Destination IP Logs Query for Grid Display

Executes a query to retrieve destination IP related logs and data for display in a grid format.

URI	/api/juniper/appvisibility/application-statistics/query-builder-logs/destination
HTTP method	POST
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	null

Sample JSON Input

```
{
  "request" : {
    "aggregations" : [ "String" ],
    "aggregation" : "String",
    "aggregation-attributes" : [ "String" ],
    "time-interval" : "String",
    "size" : "int",
    "from" : "int",
    "search" : "String",
    "order" : "String",
    "slots" : "int",
    "filters" : {
```


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```
    "serialVersionUID" : "long",
    "case-sensitive" : "boolean",
    "and" : [ ],
    "or" : [ ],
    "not" : [ ],
    "filter" : {
      "serialVersionUID" : "long",
      "key" : "String",
      "operator" : "String",
      "value" : [ "String" ]
    },
    "applicationName" : [ "String" ],
    "countMonitoring" : {
      "serialVersionUID" : "long",
      "applicationCount" : "long",
      "threatsCount" : "long",
      "contentsCount" : "long",
      "URLCount" : "long",
      "sourceIpCount" : "long",
      "destinationIpCount" : "long",
      "deviceId" : "String",
      "domainId" : "int"
    }
  },
  "sort" : "String",
  "device-ids" : [ "String" ],
  "include-fields" : [ "String" ],
  "exclude-fields" : [ "String" ],
  "resolve-addresses" : "boolean",
  "resolve-event-name" : "boolean",
  "is-session" : "boolean",
  "filterTxt" : "String",
  "aggregation-fields" : [ "String" ],
  "job-id" : "String",
  "all-domains" : "boolean"
 }
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <aggregations>String</aggregations>
  <aggregation>String</aggregation>
  <aggregation-attributes>String</aggregation-attributes>
  <time-interval>String</time-interval>
  <size>int</size>
  <from>int</from>
  <search>String</search>
  <order>String</order>
  <slots>int</slots>
  <filters>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
      <serialVersionUID>long</serialVersionUID>
      <key>String</key>
      <operator>String</operator>
      <value>String</value>
    </filter>
    <applicationName>String</applicationName>
    <countMonitoring>
      <serialVersionUID>long</serialVersionUID>
      <applicationCount>long</applicationCount>
      <threatsCount>long</threatsCount>
```


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```
        <contentsCount>long</contentsCount>
        <URLCount>long</URLCount>
        <sourceIpCount>long</sourceIpCount>
        <destinationIpCount>long</destinationIpCount>
        <deviceId>String</deviceId>
        <domainId>int</domainId>
      </countMonitoring>
    </filters>
    <sort>String</sort>
    <device-ids>String</device-ids>
    <include-fields>String</include-fields>
    <exclude-fields>String</exclude-fields>
    <resolve-addresses>boolean</resolve-addresses>
    <resolve-event-name>boolean</resolve-event-name>
    <is-session>boolean</is-session>
    <filterTxt>String</filterTxt>
    <aggregation-fields>String</aggregation-fields>
    <job-id>String</job-id>
    <all-domains>boolean</all-domains>
</request>
```

Sample JSON Output:

```
{}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Execute User Logs Query for Grid Display

Executes a query to retrieve user-related logs and data for display in a grid format.

URI	/api/juniper/appvisibility/application-statistics/query-builder-logs/users
HTTP method	POST
Content-Type	None

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Accept-Type	application/json application/xml
Access-Control	null

Sample JSON Input


```
{
  "request" : {
    "aggregations" : [ "String" ],
    "aggregation" : "String",
    "aggregation-attributes" : [ "String" ],
    "time-interval" : "String",
    "size" : "int",
    "from" : "int",
    "search" : "String",
    "order" : "String",
    "slots" : "int",
    "filters" : {
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
      },
      "applicationName" : [ "String" ],
      "countMonitoring" : {
        "serialVersionUID" : "long",
        "applicationCount" : "long",
        "threatsCount" : "long",
        "contentsCount" : "long",
        "URLCount" : "long",
        "sourceIpCount" : "long",
        "destinationIpCount" : "long",
        "deviceId" : "String",
        "domainId" : "int"
      }
    },
    "sort" : "String",
    "device-ids" : [ "String" ],
    "include-fields" : [ "String" ],
    "exclude-fields" : [ "String" ],
    "resolve-addresses" : "boolean",
    "resolve-event-name" : "boolean",
    "is-session" : "boolean",
    "filterTxt" : "String",
    "aggregation-fields" : [ "String" ],
    "job-id" : "String",
    "all-domains" : "boolean"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <aggregations>String</aggregations>
  <aggregation>String</aggregation>
  <aggregation-attributes>String</aggregation-attributes>
  <time-interval>String</time-interval>
  <size>int</size>
  <from>int</from>
  <search>String</search>
  <order>String</order>
  <slots>int</slots>
  <filters>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
      <serialVersionUID>long</serialVersionUID>
      <key>String</key>
      <operator>String</operator>
      <value>String</value>
    </filter>
    <applicationName>String</applicationName>
    <countMonitoring>
      <serialVersionUID>long</serialVersionUID>
      <applicationCount>long</applicationCount>
      <threatsCount>long</threatsCount>
      <contentsCount>long</contentsCount>
      <URLCount>long</URLCount>
      <sourceIpCount>long</sourceIpCount>
      <destinationIpCount>long</destinationIpCount>
      <deviceId>String</deviceId>
      <domainId>int</domainId>
    </countMonitoring>
  </filters>
  <sort>String</sort>
  <device-ids>String</device-ids>
  <include-fields>String</include-fields>
  <exclude-fields>String</exclude-fields>
  <resolve-addresses>boolean</resolve-addresses>
  <resolve-event-name>boolean</resolve-event-name>
  <is-session>boolean</is-session>
  <filterTxt>String</filterTxt>
  <aggregation-fields>String</aggregation-fields>
  <job-id>String</job-id>
  <all-domains>boolean</all-domains>
</request>
```

Sample JSON Output:

```
{}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Execute Application Statistics Query

Executes a complex query to retrieve aggregated application statistics.

URI	/api/juniper/appvisibility/application-statistics/appstatistics-query-builder/?startTime=long&endTime=long&_search=String&deviceIds=String
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	null

Sample JSON Input

```
{
  "request" : {
    "aggregations" : [ "String" ],
    "aggregation" : "String",
    "aggregation-attributes" : [ "String" ],
    "time-interval" : "String",
    "size" : "int",
    "from" : "int",
    "search" : "String",
    "order" : "String",
    "slots" : "int",
    "filters" : {
      "serialVersionUID" : "long",
      "case-sensitive" : "boolean",
      "and" : [ ],
      "or" : [ ],
      "not" : [ ],
      "filter" : {
        "serialVersionUID" : "long",
        "key" : "String",
        "operator" : "String",
        "value" : [ "String" ]
```


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```
      },
      "applicationName" : [ "String" ],
      "countMonitoring" : {
        "serialVersionUID" : "long",
        "applicationCount" : "long",
        "threatsCount" : "long",
        "contentsCount" : "long",
        "URLCount" : "long",
        "sourceIpCount" : "long",
        "destinationIpCount" : "long",
        "deviceId" : "String",
        "domainId" : "int"
      }
    },
    "sort" : "String",
    "device-ids" : [ "String" ],
    "include-fields" : [ "String" ],
    "exclude-fields" : [ "String" ],
    "resolve-addresses" : "boolean",
    "resolve-event-name" : "boolean",
    "is-session" : "boolean",
    "filterTxt" : "String",
    "aggregation-fields" : [ "String" ],
    "job-id" : "String",
    "all-domains" : "boolean"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<request>
  <aggregations>String</aggregations>
  <aggregation>String</aggregation>
  <aggregation-attributes>String</aggregation-attributes>
  <time-interval>String</time-interval>
  <size>int</size>
  <from>int</from>
  <search>String</search>
  <order>String</order>
  <slots>int</slots>
  <filters>
    <serialVersionUID>long</serialVersionUID>
    <case-sensitive>boolean</case-sensitive>
    <filter>
      <serialVersionUID>long</serialVersionUID>
      <key>String</key>
      <operator>String</operator>
      <value>String</value>
    </filter>
    <applicationName>String</applicationName>
    <countMonitoring>
      <serialVersionUID>long</serialVersionUID>
      <applicationCount>long</applicationCount>
      <threatsCount>long</threatsCount>
      <contentsCount>long</contentsCount>
      <URLCount>long</URLCount>
      <sourceIpCount>long</sourceIpCount>
      <destinationIpCount>long</destinationIpCount>
      <deviceId>String</deviceId>
      <domainId>int</domainId>
    </countMonitoring>
  </filters>
  <sort>String</sort>
  <device-ids>String</device-ids>
```


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```
  <include-fields>String</include-fields>
  <exclude-fields>String</exclude-fields>
  <resolve-addresses>boolean</resolve-addresses>
  <resolve-event-name>boolean</resolve-event-name>
  <is-session>boolean</is-session>
  <filterTxt>String</filterTxt>
  <aggregation-fields>String</aggregation-fields>
  <job-id>String</job-id>
  <all-domains>boolean</all-domains>
</request>
```

Sample JSON Output:

```
{}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Save Query Builder Filter Definition

Saves a user-defined query builder filter configuration.

URI	/api/juniper/appvisibility/application-statistics/save-query-builder-filter/?startTime=long&endTime=long&_search=String&deviceIds=String
HTTP method	POST
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	null

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Sample JSON Input

```
{}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
```

Sample JSON Output:

```
{}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Retrieve Saved Query Builder Filters

Fetches a list of all previously saved query builder filter definitions.

URI	/api/juniper/appvisibility/application-statistics/get-query-builder-filter/
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml

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Access-Control	null

Sample JSON Output:


```
{
  "custom-filters" : {
    "header" : {
      "count" : "int",
      "message" : "String",
      "responeCode" : "int"
    },
    "customFilter" : [ {
      "id" : "int",
      "filter-name" : "String",
      "aggregation" : "String",
      "starttime" : "String",
      "endtime" : "String",
      "duration" : "String",
      "filter-string" : "String",
      "time-unit" : "String",
      "formatted-filter" : {
        "map" : { },
        "NULL" : { }
      }
    } ],
    "total" : "int"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<custom-filters>
  <header>
    <count>int</count>
    <message>String</message>
    <responeCode>int</responeCode>
  </header>
  <customFilter>
    <id>int</id>
    <filter-name>String</filter-name>
    <aggregation>String</aggregation>
    <starttime>String</starttime>
    <endtime>String</endtime>
    <duration>String</duration>
    <filter-string>String</filter-string>
    <time-unit>String</time-unit>
    <formatted-filter>
      <map/>
      <NULL/>
    </formatted-filter>
  </customFilter>
  <total>int</total>
</custom-filters>
```


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Update Saved Query Builder Filter Definition

Updates an existing user-defined query builder filter configuration.

URI	/api/juniper/appvisibility/application-statistics/update-query-builder-filter/{id}
HTTP method	PUT
Content-Type	application/json application/xml
Accept-Type	application/json application/xml
Access-Control	null

Sample JSON Input

```
{}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
```

Sample JSON Output:

```
{}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
```

Get Detailed User Statistics

This request is used to get the details of bandwith for each application for given user, as detected by SRX using application tracking feature.

URI	/api/juniper/appvisibility/application-statistics/user-detail?userName=String&startTime=long&endTime=long&deviceIds=String
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	null

Sample JSON Output:

```
{
  "response" : {
    "serialVersionUID" : "long",
    "result" : [ {
      "name" : "String",
      "value" : "Long",
      "session-count" : "Long",
      "name-type" : "String",
      "applications" : { },
      "volume" : "Long",
      "number-of-blocks" : "long",
      "ports" : "long",
      "status" : "String",
      "firewall-name" : "String",
      "source-ip" : "String"
    } ],
    "volume" : "Long",
    "session-count" : "Long",
    "name" : "String",
    "total-records" : "int",
    "applications" : "String"
  }
```


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}

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<response>
  <serialVersionUID>long</serialVersionUID>
  <result>
    <name>String</name>
    <value>Long</value>
    <session-count>Long</session-count>
    <name-type>String</name-type>
    <applications/>
    <volume>Long</volume>
    <number-of-blocks>long</number-of-blocks>
    <ports>long</ports>
    <status>String</status>
    <firewall-name>String</firewall-name>
    <source-ip>String</source-ip>
  </result>
  <volume>Long</volume>
  <session-count>Long</session-count>
  <name>String</name>
  <total-records>int</total-records>
  <applications>String</applications>
</response>
```


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PART 4

Security Device Management

CHAPTER 56

Device Management RESTful Web Services

The following opertions can be performed using Secuirty Director Device Management RESTful Web Services

Retrieve PKI Certificate Names

Fetches a list of PKI certificate names associated with a specified security device.

URI	/api/juniper/sd/device-management/device-pki-certificates/{deviceId}
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageDevices

Sample JSON Output:

```
{
  "certificates" : {
    "certificate-name" : [ {
      "value" : "String"
    } ]
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<certificates>
  <certificate-name>
    <value>String</value>
  </certificate-name>
</certificates>
```

Delete Local Certificates in Bulk

Deletes multiple local certificates from devices in a single bulk operation.

URI	/api/juniper/sd/device-management/local-certificates/delete
HTTP method	POST
Content-Type	application/vnd.juniper.sd.device-management.local-certificate-bulk-delete+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.device-management.local-certificate-bulk-delete+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.device-management.certificate-response+xml;version=1;q=0.01 application/vnd.juniper.sd.device-management.certificate-response+json;version=1;q=0.01
Access-Control	manageDevices

Sample JSON Input

```
{
  "id-list" : {
    "ids" : [ "Integer" ],
    "total" : "int"
  }
}
```


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Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<id-list>
   <ids>Integer</ids>
   <total>int</total>
</id-list>
```

Sample JSON Output:

```
{
  "certificates-response" : {
    "error-msg" : "String",
    "success" : "Boolean",
    "uri" : "String",
    "id" : "Integer"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<certificates-response>
   <error-msg>String</error-msg>
   <success>Boolean</success>
   <uri>String</uri>
   <id>Integer</id>
</certificates-response>
```

Delete Local Certificate

Deletes a specific local certificate from a device by its ID.

URI	/api/juniper/sd/device-management/local-certificates/delete/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	application/vnd.juniper.sd.device-management.certificate-response+xml;version=1;q=0.01 application/vnd.juniper.sd.device-management.certificate-response+json;version=1;q=0.01
Access-Control	manageDevices

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Sample JSON Output:


```
{
  "certificates-response" : {
    "error-msg" : "String",
    "success" : "Boolean",
    "uri" : "String",
    "id" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<certificates-response>
   <error-msg>String</error-msg>
   <success>Boolean</success>
   <uri>String</uri>
   <id>Integer</id>
</certificates-response>
```


Retrieve Local Certificates for Device

Fetches all local certificates configured on a specific device.

URI	/api/juniper/sd/device-management/local-certificates/{deviceId}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.device-management.local-certificates+xml;version=2;q=0.02 application/vnd.juniper.sd.device-management.local-certificates+json;version=2;q=0.02
Access-Control	manageDevices

Sample JSON Output:


```
{
  "local-certificates" : {
    "certificatelite" : [ {
      "certificate-id" : "Integer",
      "certificate-name" : "String",
      "certificate-content" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
```


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```
    "totalSize" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<local-certificates>
  <certificatelite>
    <certificate-id>Integer</certificate-id>
    <certificate-name>String</certificate-name>
    <certificate-content>String</certificate-content>
    <uri>String</uri>
  </certificatelite>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</local-certificates>
```


Create Local Certificate

Creates and deploys a new local certificate on a specified device.

URI	/api/juniper/sd/device-management/local-certificates/create/{deviceId}
HTTP method	POST
Content-Type	application/vnd.juniper.sd.device-management.local-certificate+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.device-management.local-certificate+json;version=1;charset=UTF-8
Accept-Type	application/vnd.juniper.sd.device-management.certificate-response+xml;version=1;q=0.01 application/vnd.juniper.sd.device-management.certificate-response+json;version=1;q=0.01
Access-Control	manageDevices

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Sample JSON Input

```
{
  "local-certificates" : {
    "certificatelite" : [ {
      "certificate-id" : "Integer",
      "certificate-name" : "String",
      "certificate-content" : "String"
    } ],
    "totalSize" : "Integer"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<local-certificates>
   <certificatelite>
      <certificate-id>Integer</certificate-id>
      <certificate-name>String</certificate-name>
      <certificate-content>String</certificate-content>
   </certificatelite>
   <totalSize>Integer</totalSize>
</local-certificates>
```

Sample JSON Output:

```
{
  "certificates-response" : {
    "error-msg" : "String",
    "success" : "Boolean",
    "uri" : "String",
    "id" : "Integer"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<certificates-response>
   <error-msg>String</error-msg>
   <success>Boolean</success>
   <uri>String</uri>
   <id>Integer</id>
</certificates-response>
```

Modify Local Certificate

Modifies an existing local certificate on a device identified by its ID.

URI	/api/juniper/sd/device-management/local-certificates/modify/{id}
HTTP method	PUT
Content-Type	application/vnd.juniper.sd.device-management.local-certificate+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.device-management.local-certificate+json;version=1;charset=UTF-8

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Accept-Type	application/vnd.juniper.sd.device-management.certificate-response+xml;version=1;q=0.01 application/vnd.juniper.sd.device-management.certificate-response+json;version=1;q=0.01
Access-Control	manageDevices

Sample JSON Input

```
{
  "local-certificates" : {
    "certificatelite" : [ {
      "certificate-id" : "Integer",
      "certificate-name" : "String",
      "certificate-content" : "String"
    } ],
    "totalSize" : "Integer"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<local-certificates>
   <certificatelite>
      <certificate-id>Integer</certificate-id>
      <certificate-name>String</certificate-name>
      <certificate-content>String</certificate-content>
   </certificatelite>
   <totalSize>Integer</totalSize>
</local-certificates>
```

Sample JSON Output:

```
{
  "certificates-response" : {
    "error-msg" : "String",
    "success" : "Boolean",
    "uri" : "String",
    "id" : "Integer"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<certificates-response>
   <error-msg>String</error-msg>
   <success>Boolean</success>
   <uri>String</uri>
   <id>Integer</id>
</certificates-response>
```

Upload Certificate File to Device

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Uploads a certificate file (e.g., PEM, DER) to a specified device.

URI	/api/juniper/sd/device-management/local-certificate/upload/{deviceId}
HTTP method	POST
Content-Type	multipart/form-data
Accept-Type	application/json
Access-Control	manageDevices

Sample JSON Input

```
{}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
```

Sample JSON Output:

```
{
  "files-upload-response" : {
    "status" : "String",
    "fileName" : "String"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<files-upload-response>
   <status>String</status>
   <fileName>String</fileName>
</files-upload-response>
```

Create CA Certificate on Device

Creates and installs a CA (Certificate Authority) certificate on a specified device.

URI	/api/juniper/sd/device-management/ca-certificate/create/{deviceId}/{caName}
HTTP method	POST
Content-Type	application/vnd.juniper.sd.device-management.files-upload-response+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.device-management.files-upload-response+json;version=1;charset=UTF-8
Accept-Type	application/json
Access-Control	manageDevices

Sample JSON Input

```
{
  "files-upload-response" : {
    "status" : "String",
    "fileName" : "String"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<files-upload-response>
   <status>String</status>
   <fileName>String</fileName>
</files-upload-response>
```


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Sample JSON Output:

```
{
  "certificates-response" : {
    "error-msg" : "String",
    "success" : "Boolean",
    "uri" : "String",
    "id" : "Integer"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<certificates-response>
   <error-msg>String</error-msg>
   <success>Boolean</success>
   <uri>String</uri>
   <id>Integer</id>
</certificates-response>
```

Get All Devices

This request is used to get all devices from Security Director device inventory.

URI	/api/juniper/sd/device-management/devices
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.device-management.devices+xml;version=2;q=0.02 application/vnd.juniper.sd.device-management.devices+json;version=2;q=0.02 application/vnd.juniper.sd.device-management.devices-extended+xml;version=2;q=0.02 application/vnd.juniper.sd.device-management.devices-extended+json;version=2;q=0.02
Access-Control	manageDevices

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Sample JSON Input


```
{
  "type" : "String"
}
```


Sample XML Input


```
<?xml version="1.0" encoding="UTF-8"?>
<type>String</type>
```


Sample JSON Output:


```
{
  "devices" : {
    "device" : [ {
      "serial-number" : "String",
      "use-nat" : "boolean",
      "registration-info" : {
        "realm" : "String",
        "security-device-id" : "Integer",
        "enrollment" : [ "SKYATP", "SDSN_CONTROLLER", "NOT_REGISTERED", "FAILED", "NSX", "JATP"
],
        "uri" : "String"
      },
      "matching-schema" : "String",
      "device-ip" : "String",
      "id" : "Integer",
      "moid" : "String",
      "software-release" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "display-name" : "String",
      "device-type" : [ "LSYS", "ROOT", "TSYS" ],
      "installed-services" : {
        "installed-service" : [ {
          "name" : "String",
          "service-type" : "String",
          "version" : "Integer",
          "uri" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "device-id" : "String",
      "last-rebooted-time" : "Date",
      "configuration-status" : "String",
      "platform" : "String",
      "device-family" : "String",
      "global" : "String",
      "pending-services" : {
        "published-service" : [ {
          "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required",
"Deleted" ],
          "service-type" : "String",
          "name" : "String",
          "version" : "Integer",
```


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```
          "uri" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "assigned-services" : {
        "assigned-service" : [ {
          "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required",
"Deleted" ],
          "name" : "String",
          "service-type" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "management-status" : [ "Managed", "In Sync", "SD Changed", "Device Changed", "SD Changed
Device Changed" ],
      "cpu" : "Integer",
      "cc-status" : "String",
      "domain-name" : "String",
      "virtual-chassis-status" : "Boolean",
      "authentication-status" : "String",
      "connection-type" : "String",
      "ram" : "Integer",
      "connection-status" : "String",
      "cluster" : "Boolean",
      "number-of-sessions" : "Integer",
      "cluster-id" : "String",
      "storage" : "Integer",
      "root-device-id" : "Integer",
      "root-device-name" : "String",
      "lsys-count" : "Integer",
      "tsys-count" : "Integer",
      "uri" : "String",
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer",
    "totalDeviceCount" : "Integer"
  }
}
```


Sample XML Output:


```
<?xml version="1.0" encoding="UTF-8"?>
<devices>
  <device>
    <serial-number>String</serial-number>
    <use-nat>boolean</use-nat>
    <registration-info>
      <realm>String</realm>
      <security-device-id>Integer</security-device-id>
      <enrollment>SKYATP</enrollment>
      <enrollment>SDSN_CONTROLLER</enrollment>
      <enrollment>NOT_REGISTERED</enrollment>
      <enrollment>FAILED</enrollment>
      <enrollment>NSX</enrollment>
      <enrollment>JATP</enrollment>
      <uri>String</uri>
    </registration-info>
    <matching-schema>String</matching-schema>
    <device-ip>String</device-ip>
    <id>Integer</id>
    <moid>String</moid>
    <software-release>String</software-release>
    <domain-id>Integer</domain-id>
```


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```
<name>String</name>
<display-name>String</display-name>
<device-type>LSYS</device-type>
<device-type>ROOT</device-type>
<device-type>TSYS</device-type>
<installed-services>
  <installed-service>
    <name>String</name>
    <service-type>String</service-type>
    <version>Integer</version>
    <uri>String</uri>
  </installed-service>
  <totalSize>Integer</totalSize>
</installed-services>
<device-id>String</device-id>
<last-rebooted-time>Date</last-rebooted-time>
<configuration-status>String</configuration-status>
<platform>String</platform>
<device-family>String</device-family>
<global>String</global>
<pending-services>
  <published-service>
    <publish-state>Not Published</publish-state>
    <publish-state>Partially Published</publish-state>
    <publish-state>Published</publish-state>
    <publish-state>Re-Publish Required</publish-state>
    <publish-state>Deleted</publish-state>
    <service-type>String</service-type>
    <name>String</name>
    <version>Integer</version>
    <uri>String</uri>
  </published-service>
  <totalSize>Integer</totalSize>
</pending-services>
<assigned-services>
  <assigned-service>
    <publish-state>Not Published</publish-state>
    <publish-state>Partially Published</publish-state>
    <publish-state>Published</publish-state>
    <publish-state>Re-Publish Required</publish-state>
    <publish-state>Deleted</publish-state>
    <name>String</name>
    <service-type>String</service-type>
  </assigned-service>
  <totalSize>Integer</totalSize>
</assigned-services>
<management-status>Managed</management-status>
<management-status>In Sync</management-status>
<management-status>SD Changed</management-status>
<management-status>Device Changed</management-status>
<management-status>SD Changed Device Changed</management-status>
<cpu>Integer</cpu>
<cc-status>String</cc-status>
<domain-name>String</domain-name>
<virtual-chassis-status>Boolean</virtual-chassis-status>
<authentication-status>String</authentication-status>
<connection-type>String</connection-type>
<ram>Integer</ram>
<connection-status>String</connection-status>
<cluster>Boolean</cluster>
<number-of-sessions>Integer</number-of-sessions>
<cluster-id>String</cluster-id>
<storage>Integer</storage>
<root-device-id>Integer</root-device-id>
```


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```
    <root-device-name>String</root-device-name>
    <lsys-count>Integer</lsys-count>
    <tsys-count>Integer</tsys-count>
    <uri>String</uri>
    <link>String</link>
  </device>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
  <totalDeviceCount>Integer</totalDeviceCount>
</devices>
```

Retrieve Devices by ID and Type

Fetches device information based on its unique ID and specified device type.

URI	/api/juniper/sd/device-management/devices1?deviceId=Integer&deviceType=String
HTTP method	GET
Content-Type	None
Accept-Type	application/json application/xml
Access-Control	manageDevices

Sample JSON Output:

```
{
  "devices" : {
    "device" : [ {
      "serial-number" : "String",
      "use-nat" : "boolean",
      "registration-info" : {
        "realm" : "String",
        "security-device-id" : "Integer",
        "enrollment" : [ "SKYATP", "SDSN_CONTROLLER", "NOT_REGISTERED", "FAILED", "NSX", "JATP"
],
        "uri" : "String"
      },
      "matching-schema" : "String",
      "device-ip" : "String",
      "id" : "Integer",
      "moid" : "String",
      "software-release" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "display-name" : "String",
      "device-type" : [ "LSYS", "ROOT", "TSYS" ],
```


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```
      "installed-services" : {
        "installed-service" : [ {
          "name" : "String",
          "service-type" : "String",
          "version" : "Integer",
          "uri" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "device-id" : "String",
      "last-rebooted-time" : "Date",
      "configuration-status" : "String",
      "platform" : "String",
      "device-family" : "String",
      "global" : "String",
      "pending-services" : {
        "published-service" : [ {
          "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required",
"Deleted" ],
          "service-type" : "String",
          "name" : "String",
          "version" : "Integer",
          "uri" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "assigned-services" : {
        "assigned-service" : [ {
          "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required",
"Deleted" ],
          "name" : "String",
          "service-type" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "management-status" : [ "Managed", "In Sync", "SD Changed", "Device Changed", "SD Changed
Device Changed" ],
      "cpu" : "Integer",
      "cc-status" : "String",
      "domain-name" : "String",
      "virtual-chassis-status" : "Boolean",
      "authentication-status" : "String",
      "connection-type" : "String",
      "ram" : "Integer",
      "connection-status" : "String",
      "cluster" : "Boolean",
      "number-of-sessions" : "Integer",
      "cluster-id" : "String",
      "storage" : "Integer",
      "root-device-id" : "Integer",
      "root-device-name" : "String",
      "lsys-count" : "Integer",
      "tsys-count" : "Integer",
      "uri" : "String",
      "link" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer",
    "totalDeviceCount" : "Integer"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<devices>
  <device>
    <serial-number>String</serial-number>
    <use-nat>boolean</use-nat>
    <registration-info>
      <realm>String</realm>
      <security-device-id>Integer</security-device-id>
      <enrollment>SKYATP</enrollment>
      <enrollment>SDSN_CONTROLLER</enrollment>
      <enrollment>NOT_REGISTERED</enrollment>
      <enrollment>FAILED</enrollment>
      <enrollment>NSX</enrollment>
      <enrollment>JATP</enrollment>
      <uri>String</uri>
    </registration-info>
    <matching-schema>String</matching-schema>
    <device-ip>String</device-ip>
    <id>Integer</id>
    <moid>String</moid>
    <software-release>String</software-release>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <display-name>String</display-name>
    <device-type>LSYS</device-type>
    <device-type>ROOT</device-type>
    <device-type>TSYS</device-type>
    <installed-services>
      <installed-service>
        <name>String</name>
        <service-type>String</service-type>
        <version>Integer</version>
        <uri>String</uri>
      </installed-service>
      <totalSize>Integer</totalSize>
    </installed-services>
    <device-id>String</device-id>
    <last-rebooted-time>Date</last-rebooted-time>
    <configuration-status>String</configuration-status>
    <platform>String</platform>
    <device-family>String</device-family>
    <global>String</global>
    <pending-services>
      <published-service>
        <publish-state>Not Published</publish-state>
        <publish-state>Partially Published</publish-state>
        <publish-state>Published</publish-state>
        <publish-state>Re-Publish Required</publish-state>
        <publish-state>Deleted</publish-state>
        <service-type>String</service-type>
        <name>String</name>
        <version>Integer</version>
        <uri>String</uri>
      </published-service>
      <totalSize>Integer</totalSize>
    </pending-services>
    <assigned-services>
      <assigned-service>
        <publish-state>Not Published</publish-state>
        <publish-state>Partially Published</publish-state>
        <publish-state>Published</publish-state>
        <publish-state>Re-Publish Required</publish-state>
```


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```
        <publish-state>Deleted</publish-state>
        <name>String</name>
        <service-type>String</service-type>
      </assigned-service>
      <totalSize>Integer</totalSize>
    </assigned-services>
    <management-status>Managed</management-status>
    <management-status>In Sync</management-status>
    <management-status>SD Changed</management-status>
    <management-status>Device Changed</management-status>
    <management-status>SD Changed Device Changed</management-status>
    <cpu>Integer</cpu>
    <cc-status>String</cc-status>
    <domain-name>String</domain-name>
    <virtual-chassis-status>Boolean</virtual-chassis-status>
    <authentication-status>String</authentication-status>
    <connection-type>String</connection-type>
    <ram>Integer</ram>
    <connection-status>String</connection-status>
    <cluster>Boolean</cluster>
    <number-of-sessions>Integer</number-of-sessions>
    <cluster-id>String</cluster-id>
    <storage>Integer</storage>
    <root-device-id>Integer</root-device-id>
    <root-device-name>String</root-device-name>
    <lsys-count>Integer</lsys-count>
    <tsys-count>Integer</tsys-count>
    <uri>String</uri>
    <link>String</link>
  </device>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
  <totalDeviceCount>Integer</totalDeviceCount>
</devices>
```

Update Devices

This request is used to update published services to devices.

URI	/api/juniper/sd/device-management/update-devices
HTTP method	POST
Content-Type	application/vnd.juniper.sd.device-management.update-devices+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.device-management.update-devices+json;version=1;charset=UTF-8
Accept-Type	application/vnd.net.juniper.space.job-management.task+xml;version=1;q=0.01 application/vnd.net.juniper.space.job-management.task+json;version=1;q=0.01

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Sample JSON Input

```
{
  "update-devices" : {
    "sd-ids" : {
      "id" : [ "Integer" ]
    },
    "service-types" : {
      "service-type" : [ "POLICY", "IPSPOLICY", "NAT", "VPN", "APBR", "JIMS", "GLOBAL", "GLOBALIDP",
"DNSSECURITYPOLICY", "DNSSINKHOLE", "DNSFILTER" ]
    },
    "update-options" : {
      "enable-policy-rematch-srx-only" : "Boolean",
      "preserve-session-sc-os" : "Boolean"
    }
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<update-devices>
  <sd-ids>
    <id>Integer</id>
  </sd-ids>
  <service-types>
    <service-type>POLICY</service-type>
    <service-type>IPSPOLICY</service-type>
    <service-type>NAT</service-type>
    <service-type>VPN</service-type>
    <service-type>APBR</service-type>
    <service-type>JIMS</service-type>
    <service-type>GLOBAL</service-type>
    <service-type>GLOBALIDP</service-type>
    <service-type>DNSSECURITYPOLICY</service-type>
    <service-type>DNSSINKHOLE</service-type>
    <service-type>DNSFILTER</service-type>
  </service-types>
  <update-options>
    <enable-policy-rematch-srx-only>Boolean</enable-policy-rematch-srx-only>
    <preserve-session-sc-os>Boolean</preserve-session-sc-os>
  </update-options>
</update-devices>
```

Sample JSON Output:

```
{
  "task" : {
    "id" : "String"
  }
}
```


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Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<task>
   <id>String</id>
</task>
```


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Examples

- Pagination
- Sorting
- Filtering

Pagination

By using the default GET All option, you can retrieve a maximum of1000 entries. If you need to retrieve more than 1000 entries, you must use the pagination option.

Sample Usage with pagination:

To fetch 10 records starting from 5th position,

URI:/api/juniper/sd/address-management/addresses?paging=(start eq 5, limit eq 10)

To fetch first 10 records,

URI:/api/juniper/sd/address-management/addresses?paging=(limit eq 10)

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Sorting

All Get ALL Api supports sorting on the name field.The output results can be sorted by the name field.

Sample Usage with sorting:

To sort list in an ascending order,

URI: /api/juniper/sd/address-management/addresses?sorting=(name(ascending))

To sort list in a descending order,

URI: /api/juniper/sd/address-management/addresses?sorting=(name(descending))

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Filtering

All Get ALL Api supports filtering on all the fields.The output results can be filtered by the specific field.

Sample Usage with filtering:

To apply filtering on all feild ,

URI:/api/juniper/sd/address-management/addresses?filter=(global eq 'vpn')

To apply filtering on specific field,

URI:/api/juniper/sd/address-management/addresses?filter=(name eq 'vpn')

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