

## Junos® Space

### Junos® Space RESTful API Reference for Security Director

Release 19.4R1

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### Documentation and Release Notes

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## Requesting Technical Support

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Technical product support is available through the Juniper Networks Technical 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.

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- 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://www.juniper.net/infocenter/>
- Download the latest versions of software and review release notes: <http://www.juniper.net/customers/csc/software/>
- Search technical bulletins for relevant hardware and software notifications: <http://kb.juniper.net/InfoCenter/>
- Join and participate in the Juniper Networks Community Forum: <http://www.juniper.net/company/communities/>

## PART 1

# Security Director Services

## CHAPTER 1

### Firewall Policy Management RESTful Web Services

The following operations can be performed using Security Director Firewall Policy Management RESTful Web Services

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

## 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;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"
      },
      "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",
          "tcp-seq-check" : "Boolean",
          "window-scale-check" : "Boolean",
          "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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
            } ],
            "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" ],
            "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",
          "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",
"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"
} ],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
} ],
"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" : { },
        "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"
},
"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"
    },
    "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" ],
                    "ipAddress" : "String",
                    "hostName" : "String",
                    "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                    "zone" : "String",
                    "variableId" : "Integer",
                    "hashKey" : "String",
                    "addressBookName" : "String"
                } ],
                "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" ],
                "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"
}
}

```

## Get All Firewall Policies

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

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" : {
  "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>
<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>

```

## 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"
      },
      "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",

```

```

        "tcp-seq-check" : "Boolean",
        "window-scale-check" : "Boolean",
        "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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
            } ],
            "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" ],
            "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" ],
        "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" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "numericPattern" : {
    "UNIX_LINES" : "int",
    "CASE_INSENSITIVE" : "int",
    "COMMENTS" : "int",
    "MULTILINE" : "int",
    "LITERAL" : "int",
    "DOTALL" : "int",
    "UNICODE_CASE" : "int",
    "CANON_EQ" : "int",
    "UNICODE_CHARACTER_CLASS" : "int",
    "serialVersionUID" : "long",
    "pattern" : "String",
    "flags" : "int",
    "compiled" : "boolean",
    "normalizedPattern" : "String",
    "root" : {
      "next" : { }
    },
    "matchRoot" : {
      "next" : { }
    },
    "buffer" : "[]",
    "namedGroups" : { },
    "groupNodes" : "[]",
    "temp" : "[]",
    "capturingGroupCount" : "int",
    "localCount" : "int",
    "cursor" : "int",
    "patternLength" : "int",
    "hasSupplementary" : "boolean",
    "MAX_REPS" : "int",
    "GREEDY" : "int",
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String"
},
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"

```

```

    } ],
    "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" : { },
    "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" : {
        "id" : "Integer",
        "name" : "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" ],
                    "ipAddress" : "String",
                    "hostName" : "String",
                    "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
                    "zone" : "String",
                    "variableId" : "Integer",
                    "hashKey" : "String",
                    "addressBookName" : "String"
                } ],
                "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" ],
                "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"
}

```

Sample JSON Output:

```

{
  "policy" : {
    "policy-details" : [ {
      "app-fw-policy" : {
        "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",
          "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",
    "tcp-seq-check" : "Boolean",
    "window-scale-check" : "Boolean",
    "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" ],
        "ipAddress" : "String",
        "hostName" : "String",
        "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
      } ],
      "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" ],
      "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",
          "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",
  "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"
},
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
}],
"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" : { },
    "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"
},
"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"
},
"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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
            } ],
            "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" ],
            "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"
}

```

## 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
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"
      },
      "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",
          "tcp-seq-check" : "Boolean",
          "window-scale-check" : "Boolean",
          "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" ],
        "ipAddress" : "String",
        "hostName" : "String",
        "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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" ],
"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" : { }
    },
    "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"
}],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
}],
"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" : { },
    "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" : {
        "id" : "Integer",
        "name" : "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" ],
                    "ipAddress" : "String",
                    "hostName" : "String",
                    "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                    "zone" : "String",
                    "variableId" : "Integer",
                    "hashKey" : "String",
                    "addressBookName" : "String"
                } ],
                "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" ],
                "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"
}
}

```

Sample JSON Output:

```
{
  "policy" : {
    "policy-details" : [ {
      "app-fw-policy" : {
        "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",
          "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",
          "tcp-seq-check" : "Boolean",
          "window-scale-check" : "Boolean",
          "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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
            } ],
            "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" ],
            "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",
          "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",
  "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"
} ],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
} ],
"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" : { },
        "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"
},
"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"
    },
    "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" ],
                    "ipAddress" : "String",
                    "hostName" : "String",
                    "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                    "zone" : "String",
                    "variableId" : "Integer",
                    "hashKey" : "String",
                    "addressBookName" : "String"
                } ],
                "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" ],
                "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"
}
}

```

## 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>

```

## Get Firewall Detailed Policy By ID

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

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"
      },
      "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",
    "tcp-seq-check" : "Boolean",
    "window-scale-check" : "Boolean",
    "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" ],
        "ipAddress" : "String",
        "hostName" : "String",
        "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
      } ],
      "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" ],
        "variable-id" : "Integer",
        "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",
                "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",
  "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"
}],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [],
"hashKey" : "String"
}],
"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" : { },
        "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"
},
"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"
},
"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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
            } ],
            "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" ],
        "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"
}
}

```

## 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

## 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"
}

```

## Sample XML Output:

```

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

## 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"
    },
    "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",
      "tcp-seq-check" : "Boolean",
      "window-scale-check" : "Boolean",
      "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" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],

```

```

        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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",
        "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" : { }
          }
        }
      ]
    }
  ]
}

```

```

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

```

```

        "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "variable-id" : "Integer",
    "uri" : "String"
    } ],
    "uri" : "String"
    },
    "uri" : "String"
    },
    "is-condition-used" : "Boolean",
    "uri" : "String",
    "srcMetadataExpression" : "String",
    "dstMetadataExpression" : "String"
    }
}

```

## 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.

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"
    },
    "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",
        "tcp-seq-check" : "Boolean",
        "window-scale-check" : "Boolean",
        "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" ],
        "ipAddress" : "String",
        "hostName" : "String",
        "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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" ],
    "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" : {}
},
"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"
}],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [],
"hashKey" : "String"
}],
"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" : { },
    "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" : {
    "id" : "Integer",
    "name" : "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" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String"
        } ],
        "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" ],
        "variable-id" : "Integer"
      } ]
    }
  },
  "is-condition-used" : "Boolean",
  "srcMetadataExpression" : "String",
  "dstMetadataExpression" : "String"
}
}

```

Sample JSON Output:

```

{
  "rule" : {
    "app-fw-policy" : {
      "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",
      "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",
      "tcp-seq-check" : "Boolean",
      "window-scale-check" : "Boolean",
      "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" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",

```

```

        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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",
        "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",
      "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"
}],
"display_name" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
}],
"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" : { },
      "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"
},
"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"
},
"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" ],
        "ipAddress" : "String",
        "hostName" : "String",
        "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
        "zone" : "String",

```

```

        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "variable-id" : "Integer",
    "uri" : "String"
    } ],
    "uri" : "String"
    },
    "uri" : "String"
    },
    "is-condition-used" : "Boolean",
    "uri" : "String",
    "srcMetadataExpression" : "String",
    "dstMetadataExpression" : "String"
}
}

```

## 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"
  }
}
```

#### 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>
```

## 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

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>
```

## 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

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"
    },
    "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",
        "tcp-seq-check" : "Boolean",
        "window-scale-check" : "Boolean",
        "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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
            } ],
            "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" ],
            "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" ],
                    "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" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "numericPattern" : {
    "UNIX_LINES" : "int",
    "CASE_INSENSITIVE" : "int",
    "COMMENTS" : "int",
    "MULTILINE" : "int",
    "LITERAL" : "int",
    "DOTALL" : "int",
    "UNICODE_CASE" : "int",
    "CANON_EQ" : "int",
    "UNICODE_CHARACTER_CLASS" : "int",
    "serialVersionUID" : "long",
    "pattern" : "String",
    "flags" : "int",
    "compiled" : "boolean",
    "normalizedPattern" : "String",
    "root" : {
      "next" : { }
    },
    "matchRoot" : {
      "next" : { }
    },
    "buffer" : "[]",
    "namedGroups" : { },
    "groupNodes" : "[]",
    "temp" : "[]",
    "capturingGroupCount" : "int",
    "localCount" : "int",
    "cursor" : "int",
    "patternLength" : "int",
    "hasSupplementary" : "boolean",
    "MAX_REPS" : "int",
    "GREEDY" : "int",
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String"
}],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],

```

```

        "hashKey" : "String"
    } ],
    "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" : { },
        "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" : {
    "id" : "Integer",
    "name" : "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" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String"
        } ],
        "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" ],
        "variable-id" : "Integer"
      } ]
    }
  },
  "is-condition-used" : "Boolean",
  "srcMetadataExpression" : "String",
  "dstMetadataExpression" : "String"
}
}

```

## Sample JSON Output:

```
{
  "rule" : {
    "app-fw-policy" : {
      "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",
        "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",
        "tcp-seq-check" : "Boolean",
        "window-scale-check" : "Boolean",
        "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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
            } ],
            "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" ],
            "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",
          "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",
  "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"
} ],
"display_name" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
} ],
"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" : { },
    "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"
},
"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"
  },
  "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" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String"
        } ],
        "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" ],
        "variable-id" : "Integer",
        "uri" : "String"
      } ],
      "uri" : "String"
    },
    "uri" : "String"
  },
  "is-condition-used" : "Boolean",
  "uri" : "String",
  "srcMetadataExpression" : "String",
  "dstMetadataExpression" : "String"
}
}

```

## CHAPTER 2

### NAT Policy Management RESTful Web Services

The following operations can be performed using Security Director NAT Policy Management RESTful Web Services

#### 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.

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 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",
"DYNAMIC_ADDRESS_GROUP", "Z_TYPE_IMPORT" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
              } ],
              "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" ],
              "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" ],
        "ipAddress" : "String",
        "hostName" : "String",
        "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
      } ],
      "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" ],
      "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" : { }
  },
  "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" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String"
}],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
}],
"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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
        } ],
        "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" ],
        "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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
        } ],
        "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" ],
    "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" ],
      "ipAddress" : "String",
      "hostName" : "String",
      "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
      "zone" : "String",
      "variableId" : "Integer",
      "hashKey" : "String",
      "addressBookName" : "String"
    } ],
    "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" ],
    "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",
"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" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "numericPattern" : {
    "UNIX_LINES" : "int",
    "CASE_INSENSITIVE" : "int",
    "COMMENTS" : "int",
    "MULTILINE" : "int",
    "LITERAL" : "int",
    "DOTALL" : "int",
    "UNICODE_CASE" : "int",
    "CANON_EQ" : "int",
    "UNICODE_CHARACTER_CLASS" : "int",
    "serialVersionUID" : "long",
    "pattern" : "String",
    "flags" : "int",
    "compiled" : "boolean",
    "normalizedPattern" : "String",
    "root" : {
      "next" : { }
    },
    "matchRoot" : {
      "next" : { }
    },
    "buffer" : "[]",
    "namedGroups" : { },
    "groupNodes" : "[]",
    "temp" : "[]",
    "capturingGroupCount" : "int",
    "localCount" : "int",
    "cursor" : "int",
    "patternLength" : "int",
    "hasSupplementary" : "boolean",
    "MAX_REPS" : "int",
    "GREEDY" : "int",
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",

```

```

        "uuid" : "String"
    } ],
    "displayName" : "String",
    "isGroup" : "Boolean",
    "applicationMembers" : [ ],
    "hashKey" : "String"
} ]
} ],
"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 All NAT Policies

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",
      "publish-state": [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted"
    ]
  },
  "enable-auto-arp": "Boolean",
  "proxy-arp-managed": "Boolean",
  "uri": "String",
  "link": "String"
},
"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>
</policy>
<uri>String</uri>
<totalSize>Integer</totalSize>
</policies>

```

## Create NAT Policy

This request is used to create a new NAT policy.

URI	/api/juniper/sd/policy-management/nat/policies
HTTP method	POST
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" ],
                "ipAddress": "String",
                "hostName": "String",
                "addressVersion": [ "IPv4", "IPv6", "MIXED" ],
                "zone": "String",
                "variableId": "Integer",
                "hashKey": "String",
                "addressBookName": "String"
              } ],
              "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" ],
              "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" ],
      "ipAddress" : "String",
      "hostName" : "String",
      "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
      "zone" : "String",
      "variableId" : "Integer",
      "hashKey" : "String",
      "addressBookName" : "String"
    } ],
    "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" ],
    "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" : {},
"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" : {}
        },
        "lastAccept" : {
            "next" : {}
        },
        "$assertionsDisabled" : "boolean"
    },
    "protocolNumber" : "int",
    "uuid" : "String"
}],
    "displayName" : "String",
    "isGroup" : "Boolean",
    "applicationMembers" : [],
    "hashKey" : "String"
}],
    "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" ],
    "ipAddress" : "String",
    "hostName" : "String",
    "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
    "zone" : "String",
    "variableId" : "Integer",
    "hashKey" : "String",
    "addressBookName" : "String"
  } ],
  "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" ],
  "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" ],
      "ipAddress" : "String",
      "hostName" : "String",
      "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
      "zone" : "String",
      "variableId" : "Integer",
      "hashKey" : "String",
      "addressBookName" : "String"
    } ],
    "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" ],
    "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" ],
      "ipAddress" : "String",
      "hostName" : "String",

```

```

        "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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",
        "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",
  "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"
}],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
} ]
}],
"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" ],
          "ipAddress" : "String",
          "hostName" : "String",
          "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
          "zone" : "String",
          "variableId" : "Integer",
          "hashKey" : "String",
          "addressBookName" : "String"
        } ],
        "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" ],
        "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" ],
      "ipAddress" : "String",
      "hostName" : "String",
      "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
      "zone" : "String",

```

```

        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } },
    "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" ],
    "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" : { }
},
"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" : { }
        },
        "accept" : {
            "next" : { }
        },
        "lastAccept" : {
            "next" : { }
        },
        "$assertionsDisabled" : "boolean"
    },
    "protocolNumber" : "int",
    "uuid" : "String"
} ],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
} ],
"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" ],
        "ipAddress" : "String",
        "hostName" : "String",
        "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
      } ],
      "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" ],
      "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" ],
        "ipAddress" : "String",
        "hostName" : "String",
        "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
      } ],
      "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" ],
      "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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
            } ],
            "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" ],
            "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",
    "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" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "numericPattern" : {
    "UNIX_LINES" : "int",
    "CASE_INSENSITIVE" : "int",
    "COMMENTS" : "int",
    "MULTILINE" : "int",
    "LITERAL" : "int",
    "DOTALL" : "int",
    "UNICODE_CASE" : "int",
    "CANON_EQ" : "int",
    "UNICODE_CHARACTER_CLASS" : "int",
    "serialVersionUID" : "long",
    "pattern" : "String",
    "flags" : "int",
    "compiled" : "boolean",
    "normalizedPattern" : "String",
    "root" : {
      "next" : { }
    },
    "matchRoot" : {
      "next" : { }
    },
    "buffer" : "[]",
    "namedGroups" : { },
    "groupNodes" : "[]",
    "temp" : "[]",
    "capturingGroupCount" : "int",
    "localCount" : "int",
    "cursor" : "int",
    "patternLength" : "int",
    "hasSupplementary" : "boolean",
    "MAX_REPS" : "int",
    "GREEDY" : "int",
    "LAZY" : "int",
    "POSSESSIVE" : "int",
    "INDEPENDENT" : "int",
    "lookbehindEnd" : {
      "next" : { }
    },
    "accept" : {
      "next" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String"
}],
"displayname" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
}]
}],
"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.

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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
              } ],
              "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" ],
              "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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
```

```

        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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" : { },
"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" : { }
    },
    "lastAccept" : {
        "next" : { }
    },
    "$assertionsDisabled" : "boolean"
},
"protocolNumber" : "int",
"uuid" : "String"
}],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
}],
"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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",

```

```

        "addressBookName" : "String"
    } ],
    "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" ],
    "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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
            } ],
            "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" ],
            "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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
            } ],
            "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" ],

```

```

        "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",
        "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",
  "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"
}],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
}]
}],
"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" ],
                "ipAddress" : "String",
                "hostName" : "String",

```

```

        "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
        } ],
        "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" ],
        "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" : { }
                    },
                    "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" : {}
},
"accept" : {
  "next" : {}
},
"lastAccept" : {

```

```

        "next" : { }
    },
    "$assertionsDisabled" : "boolean"
},
"protocolNumber" : "int",
"uuid" : "String"
} ],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
} ],
"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" ],
                "ipAddress" : "String",

```

```

        "hostName" : "String",
        "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
            } ],
            "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" ],
            "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" ],
                "ipAddress" : "String",
                "hostName" : "String",

```

```

        "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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",
"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",
  "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"
} ],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
} ]
} ],
"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"
}
```

## 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>
```

## 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

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" ],
                "ipAddress": "String",
                "hostName": "String",
                "addressVersion": [ "IPv4", "IPv6", "MIXED" ],
                "zone": "String",
                "variableId": "Integer",
                "hashKey": "String",
                "addressBookName": "String"
              }
            ],
            "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" ],
        "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" ],
        "ipAddress" : "String",
        "hostName" : "String",
        "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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" : { }
                    },
                    "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" : { }
},
"$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},
"protocolNumber" : "int",
"uuid" : "String"
} ],

```

```

        "displayName" : "String",
        "isGroup" : "Boolean",
        "applicationMembers" : [ ],
        "hashKey" : "String"
    } ],
    "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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
            } ],

```



```

        "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" ],
        "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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
        } ],
        "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" ],
        "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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
        } ],
        "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" ],
        "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",
"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",
  "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"
}],
"displayname" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
}
}],
"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 Rule By ID

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

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" ],
              "ipAddress" : "String",
              "hostName" : "String",
              "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
```

```

    "zone" : "String",
    "variableId" : "Integer",
    "hashKey" : "String",
    "addressBookName" : "String"
  } ],
  "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" ],
  "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" ],
    "ipAddress" : "String",
    "hostName" : "String",
    "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
    "zone" : "String",
    "variableId" : "Integer",
    "hashKey" : "String",
    "addressBookName" : "String"
  } ],
  "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" ],
  "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" : { }
          },
          "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" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  }
}

```



```

    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String"
}],
"display_name" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
}],
"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" ],
        "ipAddress" : "String",
        "hostName" : "String",

```

```

        "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
        } ],
        "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" ],
        "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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],

```

```

        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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",
"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",
            "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"
}],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [],
"hashKey" : "String"
}
}
}

```

## 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
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" ],
              "ipAddress" : "String",
              "hostName" : "String",
              "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
              "zone" : "String",
              "variableId" : "Integer",
              "hashKey" : "String",
              "addressBookName" : "String"
            } ],
            "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" ],
            "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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
        } ],
        "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" ],
        "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" : { },
  "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" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    " assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String"
}],
"display_name" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
}],
"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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
        } ],
        "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" ],
        "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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
        } ],
        "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" ],
        "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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
        } ],
        "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" ],
        "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",
  "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",
    "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"
}],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
} ]
}
}

```

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" ],

```

```

        "ipAddress" : "String",
        "hostName" : "String",
        "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
        } ],
        "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" ],

```

```

        "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" : { }
                    },
                    "buffer" : "[]"
                }
            } ],
            "next" : { }
        } ],
        "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" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  }
}

```



```

    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String"
}],
"display_name" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
}],
"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" ],
    "ipAddress" : "String",
    "hostName" : "String",
    "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
    "zone" : "String",
    "variableId" : "Integer",
    "hashKey" : "String",
    "addressBookName" : "String"
  } ],
  "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" ],
    "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" ],
      "ipAddress" : "String",
      "hostName" : "String",
      "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
      "zone" : "String",
      "variableId" : "Integer",
      "hashKey" : "String",
      "addressBookName" : "String"
    } ],
    "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" ],
    "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" ],

```

```

        "ipAddress" : "String",
        "hostName" : "String",
        "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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",
"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",
  "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"
}],
"displayname" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
}
}
}

```

## 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",
      "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
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" ],
              "ipAddress": "String",
              "hostName": "String",
              "addressVersion": [ "IPV4", "IPV6", "MIXED" ],
              "zone": "String",
              "variableId": "Integer",
              "hashKey": "String",
              "addressBookName": "String"
            } ],
            "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" ],
            "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" ],
        "ipAddress" : "String",
        "hostName" : "String",
        "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
      } ],
      "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" ],
      "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" : { },
"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" : { }
    },
    "lastAccept" : {
      "next" : { }
    },
    "$assertionsDisabled" : "boolean"
  },
  "protocolNumber" : "int",
  "uuid" : "String"
}],
"displayName" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
}],
"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" ],
      "ipAddress" : "String",
      "hostName" : "String",
      "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
      "zone" : "String",
      "variableId" : "Integer",
      "hashKey" : "String",
      "addressBookName" : "String"
    } ],
    "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" ],
    "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" ],
      "ipAddress" : "String",
      "hostName" : "String",
      "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
      "zone" : "String",
      "variableId" : "Integer",
      "hashKey" : "String",
      "addressBookName" : "String"
    } ],
    "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" ],
    "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" ],
      "ipAddress" : "String",

```

```

        "hostName" : "String",
        "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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",
        "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",
  "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"
}],
"displayname" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
}
}
}

```

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" ],
              "ipAddress" : "String",
              "hostName" : "String",
              "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
              "zone" : "String",
              "variableId" : "Integer",
              "hashKey" : "String",

```

```

        "addressBookName" : "String"
    } ],
    "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" ],
    "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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
        } ],
        "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" ],
        "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" : { }
                    },
                    "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" : { }
},
"$assertionsDisabled" : "boolean"
},
"numericPattern" : {
  "UNIX_LINES" : "int",
  "CASE_INSENSITIVE" : "int",
  "COMMENTS" : "int",
  "MULTILINE" : "int",
  "LITERAL" : "int",
  "DOTALL" : "int",
  "UNICODE_CASE" : "int",
  "CANON_EQ" : "int",
  "UNICODE_CHARACTER_CLASS" : "int",
  "serialVersionUID" : "long",
  "pattern" : "String",
  "flags" : "int",
  "compiled" : "boolean",
  "normalizedPattern" : "String",
  "root" : {
    "next" : { }
  },
  "matchRoot" : {
    "next" : { }
  },
  "buffer" : "[]",
  "namedGroups" : { },
  "groupNodes" : "[]",
  "temp" : "[]",
  "capturingGroupCount" : "int",
  "localCount" : "int",
  "cursor" : "int",
  "patternLength" : "int",
  "hasSupplementary" : "boolean",
  "MAX_REPS" : "int",
  "GREEDY" : "int",
  "LAZY" : "int",
  "POSSESSIVE" : "int",
  "INDEPENDENT" : "int",
  "lookbehindEnd" : {
    "next" : { }
  },
  "accept" : {
    "next" : { }
  },
  "lastAccept" : {
    "next" : { }
  },
  "$assertionsDisabled" : "boolean"
},

```

```

        "protocolNumber" : "int",
        "uuid" : "String"
    } ],
    "displayName" : "String",
    "isGroup" : "Boolean",
    "applicationMembers" : [ ],
    "hashKey" : "String"
} ],
"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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",

```

```

        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
            } ],
            "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" ],
            "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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",

```

```

        "addressBookName" : "String"
    } ],
    "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" ],
    "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",
"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",
  "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"
}],
"displayname" : "String",
"isGroup" : "Boolean",
"applicationMembers" : [ ],
"hashKey" : "String"
}]
}
}

```

## 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

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>
```

## 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"
  }
}
```

## 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:

```
{
  "monitable-task-instances" : {
    "monitable-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"
  }
}
```

## 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>
```

## CHAPTER 3

### IPS Policy Management RESTful Web Services

The following operations can be performed using Security Director IPS Policy Management RESTful Web Services

#### 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
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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
```

```

        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
        } ],
        "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" ],
        "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"
}
}

```

## 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>
          <ipAddress>String</ipAddress>
          <hostName>String</hostName>
          <addressVersion>IPV4</addressVersion>
          <addressVersion>IPV6</addressVersion>
          <addressVersion>MIXED</addressVersion>
          <zone>String</zone>
          <variableId>Integer</variableId>
          <hashKey>String</hashKey>
          <addressBookName>String</addressBookName>
        </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>
        <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>
          <ipAddress>String</ipAddress>
          <hostName>String</hostName>
          <addressVersion>IPV4</addressVersion>
          <addressVersion>IPV6</addressVersion>
          <addressVersion>MIXED</addressVersion>
          <zone>String</zone>
          <variableId>Integer</variableId>
          <hashKey>String</hashKey>
          <addressBookName>String</addressBookName>
        </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>
    <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>
  <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

### 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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
```

```

        "addressBookName" : "String"
    } ],
    "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" ],
    "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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
            } ],
            "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" ],
            "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>
          <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>
        </address_refs>
        <ipAddress>String</ipAddress>
        <hostName>String</hostName>
        <addressVersion>IPV4</addressVersion>
        <addressVersion>IPV6</addressVersion>
        <addressVersion>MIXED</addressVersion>
        <zone>String</zone>
        <variableId>Integer</variableId>
      </address-reference>
    </addresses>
  </source-address>

```

```

    <hashKey>String</hashKey>
    <addressBookName>String</addressBookName>
  </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>
  <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>
    <addressType>Z_TYPE_IMPORT</addressType>
    <ipAddress>String</ipAddress>
    <hostName>String</hostName>
    <addressVersion>IPV4</addressVersion>
    <addressVersion>IPV6</addressVersion>
    <addressVersion>MIXED</addressVersion>
    <zone>String</zone>
    <variableId>Integer</variableId>
    <hashKey>String</hashKey>
    <addressBookName>String</addressBookName>
  </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>
  <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>
</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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
          } ],
          "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" ],
          "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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
          } ],
          "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" ],
          "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"
}
}

```

## 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>
          <ipAddress>String</ipAddress>
          <hostName>String</hostName>
          <addressVersion>IPV4</addressVersion>
          <addressVersion>IPV6</addressVersion>
          <addressVersion>MIXED</addressVersion>
          <zone>String</zone>
          <variableId>Integer</variableId>
          <hashKey>String</hashKey>
          <addressBookName>String</addressBookName>
        </address_refs>
      </address-reference>
    </addresses>
  </source-address>
</rule>

```

```

    <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>
    <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>
<ipAddress>String</ipAddress>
<hostName>String</hostName>
<addressVersion>IPV4</addressVersion>
<addressVersion>IPV6</addressVersion>
<addressVersion>MIXED</addressVersion>
<zone>String</zone>
<variableId>Integer</variableId>
<hashKey>String</hashKey>
<addressBookName>String</addressBookName>
</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>
<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>
    <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 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

## 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" ],
      "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
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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
          } ],
          "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" ],
          "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" ],
            "ipAddress" : "String",
```

```

        "hostName" : "String",
        "addressVersion" : [ "IPv4", "IPv6", "MIXED" ],
        "zone" : "String",
        "variableId" : "Integer",
        "hashKey" : "String",
        "addressBookName" : "String"
    } ],
    "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" ],
    "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>
  <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>
  <ipAddress>String</ipAddress>
  <hostName>String</hostName>
  <addressVersion>IPV4</addressVersion>
  <addressVersion>IPV6</addressVersion>
  <addressVersion>MIXED</addressVersion>
  <zone>String</zone>
  <variableId>Integer</variableId>
  <hashKey>String</hashKey>
  <addressBookName>String</addressBookName>
</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>
<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>
        <addressType>Z_TYPE_IMPORT</addressType>
        <ipAddress>String</ipAddress>
        <hostName>String</hostName>
        <addressVersion>IPV4</addressVersion>
        <addressVersion>IPV6</addressVersion>
        <addressVersion>MIXED</addressVersion>
        <zone>String</zone>
        <variableId>Integer</variableId>
        <hashKey>String</hashKey>
        <addressBookName>String</addressBookName>
      </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>
      <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>
</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" ],
            "ipAddress" : "String",
            "hostName" : "String",
            "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
            "zone" : "String",
            "variableId" : "Integer",
            "hashKey" : "String",
            "addressBookName" : "String"
          } ],
          "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" ],
        "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" ],
                "ipAddress" : "String",
                "hostName" : "String",
                "addressVersion" : [ "IPV4", "IPV6", "MIXED" ],
                "zone" : "String",
                "variableId" : "Integer",
                "hashKey" : "String",
                "addressBookName" : "String"
            } ],
            "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" ],
            "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"
}

```

## 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>
    <ipAddress>String</ipAddress>
    <hostName>String</hostName>
    <addressVersion>IPV4</addressVersion>
    <addressVersion>IPV6</addressVersion>
    <addressVersion>MIXED</addressVersion>
    <zone>String</zone>
    <variableId>Integer</variableId>
    <hashKey>String</hashKey>
    <addressBookName>String</addressBookName>
  </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>
  <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>
        <ipAddress>String</ipAddress>
        <hostName>String</hostName>
        <addressVersion>IPV4</addressVersion>
        <addressVersion>IPV6</addressVersion>
        <addressVersion>MIXED</addressVersion>
        <zone>String</zone>
        <variableId>Integer</variableId>
        <hashKey>String</hashKey>
        <addressBookName>String</addressBookName>
      </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>
      <variable-id>Integer</variable-id>
      <uri>String</uri>
    </addresses>
  </destination-address>

```

```

        </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>
    <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" ],
      "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>
```

## 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.

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:

```
{
  "monitable-task-instances" : {
    "monitable-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"
  }
}
```

## 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 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"
      } ]
    }
  }
}
```

#### 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 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
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>
      <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>
```

## 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

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>
    <rule-count>Integer</rule-count>
    <ips-policy-type>SIGNATURESET</ips-policy-type>
    <ips-policy-type>IPSBASIC</ips-policy-type>
    <ips-policy-type>IPSAVANCED</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>
    </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>
  </policy>

```

```

    <has-OOB-changes>Boolean</has-OOB-changes>
  </policy>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</policies>

```

## 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

### Sample JSON Input

```

{
  "policy" : {
    "last-successfully-deployed-time" : "Date",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "edit-version" : "Integer",
    "ips-policy-type" : [ "SIGNATURESET", "IPSBASIC", "IPSAVANCED", "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>
```

## 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>IPSAVANCED</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>
  <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

### Sample JSON Input

```
{
  "policy" : {
    "last-successfully-deployed-time" : "Date",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "edit-version" : "Integer",
    "ips-policy-type" : [ "SIGNATURESET", "IPSBASIC", "IPSAVANCED", "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>
```

## 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>IPSAVANCED</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>
  <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



## CHAPTER 4

### VPN Management RESTful Web Services

The following operations can be performed using Security Director VPN Management RESTful Web Services

#### Delete VPN

This request is used to delete a VPN.

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

#### 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"
  }
}
```

### 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"
}
}

```

## Sample XML Output:

```

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

## 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",
        "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>
      <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>
  </tunnel>

```

```
<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
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",
      "auto-vpn" : "Boolean",
      "advpn" : "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", "Full Mesh", "Site to Site" ],
    "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"
    },
    "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>
    <auto-vpn>Boolean</auto-vpn>
    <advpn>Boolean</advpn>
    <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</type>
    <type>Full Mesh</type>
    <type>Site to Site</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>
    <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>
```

## 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"
    },
    "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", "Full Mesh", "Site to Site" ],
    "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" ],
"preshared-key-type" : [ "Auto-generate", "Manual", "None" ],
"unique-key-per-tunnel" : "Boolean",
"preshared-key" : "String",
"ospf-area-id" : "Integer",
"max-retrans-time" : "Integer",
"policy-state" : [ "DRAFT", "FINAL" ],
"allow-spoke-to-spoke-communication" : "Boolean",
"auto-vpn" : "Boolean",
"advpn" : "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>
  <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</type>
  <type>Full Mesh</type>
  <type>Site to Site</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>
<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>Integer</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>
<auto-vpn>Boolean</auto-vpn>
<advpn>Boolean</advpn>
<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 VPN

This request is used to create a new IPsec VPN. The API requires the information such as VPN name, tunnel mode, VPN type, VPN profile, preshared key, tunnel settings, route settings, and devices that are part of the VPN. It also requires device setting details per device such as if the device is hub or spoke, external interface of the device, tunnel zone, protected networks of the device, and route settings.

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
----------------	------------

## Sample JSON Input

```
{
  "create-vpn" : {
    "vpn-mo" : {
      "id" : "Integer",
      "name" : "String",
      "max-retrans-time" : "Integer",
      "ospf-area-id" : "Integer",
      "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" ],
      "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", "Full Mesh", "Site to Site" ],
    "vpn-tunnel-mode-types" : [ "Route Based", "Policy Based" ],
    "profile" : {
      "name" : "String",
      "id" : "Integer"
    },
    "description" : "String",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "allow-spoke-to-spoke-communication" : "Boolean",
    "auto-vpn" : "Boolean",
    "advpn" : "Boolean",
    "advpn-settings" : {
      "shortcut-conn-limit" : "long",
      "idle-threshold" : "int",
      "idle-time" : "int"
    },
    "multi-proxyid" : "Boolean"
  },
  "devices" : {
    "vpn-device-bean" : [ {
      "certificate" : "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" : {
    "protected-network-interface" : [ "String" ],
    "totalSize" : "Integer"
  },
  "export-default-routes" : "Boolean",
  "export-static-routes" : "Boolean",
  "export-ospf-routes" : "Boolean",
  "export-rip-routes" : "Boolean",
  "metric" : "Integer",
  "extranet-device" : "Boolean",
  "tunnel-vr" : "String",
  "device-ip" : "String",
  "device-name" : "String",
  "device-moid" : "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>Integer</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>
    <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</type>
    <type>Full Mesh</type>
    <type>Site to Site</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>
  <description>String</description>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <allow-spoke-to-spoke-communication>Boolean</allow-spoke-to-spoke-communication>
  <auto-vpn>Boolean</auto-vpn>
  <advpn>Boolean</advpn>
  <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>
    <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>Integer</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>
    <ike-group-id>String</ike-group-id>
  </vpn-device-bean>
</devices>
</create-vpn>

```

## Modify VPN

This request is used to modify an existing IPsec VPN. The API requires the information such as VPN name, tunnel mode, VPN type, VPN profile, preshared key, tunnel settings, route settings, and devices that are part of the VPN. It also requires device setting details

per device such as if the device is hub or spoke, external interface of the device, tunnel zone, protected networks of the device, and route settings. You must provide the edit version to safe guard from concurrent modification related issues.

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

## Sample JSON Input

```
{
  "modify-vpn" : {
    "vpn-mo" : {
      "id" : "Integer",
      "version" : "Integer",
      "edit-version" : "Integer",
      "name" : "String",
      "max-retrans-time" : "Integer",
      "ospf-area-id" : "Integer",
      "preshared-key" : "String",
      "unique-key-per-tunnel" : "boolean",
      "preshared-key-type" : [ "Auto-generate", "Manual", "None" ],
      "routing-type" : [ "OSPF", "RIP", "Static Routing", "No Routing", "BGP" ],
      "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", "Full Mesh", "Site to Site" ],
    "vpn-tunnel-mode-types" : [ "Route Based", "Policy Based" ],
    "profile" : {
      "name" : "String",
      "id" : "Integer"
    },
    "description" : "String",
    "policy-state" : [ "DRAFT", "FINAL" ],
    "allow-spoke-to-spoke-communication" : "boolean",
    "auto-vpn" : "boolean",
    "advpn" : "boolean",
  }
}
```

```

"advpn-settings" : {
  "shortcut-conn-limit" : "Long",
  "idle-threshold" : "Integer",
  "idle-time" : "Integer"
},
"multi-proxyid" : "boolean"
},
"device-modification" : {
  "devices-to-add" : {
    "vpn-device-bean" : [ {
      "certificate" : "String",
      "is-hub" : "boolean",
      "ike-address" : "String",
      "ike-group-id" : "String",
      "initiator" : "boolean",
      "external-if-name" : "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"
      },
      "export-default-routes" : "boolean",
      "export-static-routes" : "boolean",
      "export-ospf-routes" : "boolean",
      "export-rip-routes" : "boolean",
      "metric" : "Integer",
      "extranet-device" : "boolean",
      "tunnel-vr" : "String",
      "device-ip" : "String",
      "device-name" : "String",
      "device-moid" : "String"
    } ]
  },
  "device-mo-ids-to-delete" : {
    "device-mo-ids-to-delet" : [ "String" ]
  },
  "devices-to-modify" : {
    "vpn-device-bean" : [ {
      "certificate" : "String",
      "is-hub" : "boolean",
      "ike-address" : "String",
      "bgp-as-number" : "Integer",
      "ike-group-id" : "String",
      "initiator" : "boolean",
      "external-if-name" : "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" : {
        "protected-network-interface" : [ "String" ],
        "totalSize" : "Integer"
    },
    "export-default-routes" : "boolean",
    "export-static-routes" : "boolean",
    "export-ospf-routes" : "boolean",
    "export-rip-routes" : "boolean",
    "metric" : "Integer",
    "extranet-device" : "boolean",
    "tunnel-vr" : "String",
    "device-ip" : "String",
    "device-name" : "String",
    "device-moid" : "String"
    }
}
}
}
}

```

## Sample XML Input

```

<?xml version="1.0" encoding="UTF-8"?>
<modify-vpn>
  <vpn-mo>
    <id>Integer</id>
    <version>Integer</version>
    <edit-version>Integer</edit-version>
    <name>String</name>
    <max-retrans-time>Integer</max-retrans-time>
    <ospf-area-id>Integer</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>
    <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</type>
    <type>Full Mesh</type>
    <type>Site to Site</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>
    <description>String</description>
    <policy-state>DRAFT</policy-state>
    <policy-state>FINAL</policy-state>
    <allow-spoke-to-spoke-communication>boolean</allow-spoke-to-spoke-communication>
    <auto-vpn>boolean</auto-vpn>
  </vpn-mo>
</modify-vpn>

```

```

<advpn>boolean</advpn>
<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>
</vpn-mo>
<device-modification>
  <devices-to-add>
    <vpn-device-bean>
      <certificate>String</certificate>
      <is-hub>boolean</is-hub>
      <ike-address>String</ike-address>
      <ike-group-id>String</ike-group-id>
      <initiator>boolean</initiator>
      <external-if-name>String</external-if-name>
      <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>
      <export-rip-routes>boolean</export-rip-routes>
      <metric>Integer</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>
    </vpn-device-bean>
  </devices-to-add>
  <device-mo-ids-to-delete>
    <device-mo-ids-to-delet>String</device-mo-ids-to-delet>
  </device-mo-ids-to-delete>
  <devices-to-modify>
    <vpn-device-bean>
      <certificate>String</certificate>
      <is-hub>boolean</is-hub>
      <ike-address>String</ike-address>
      <bgp-as-number>Integer</bgp-as-number>
      <ike-group-id>String</ike-group-id>
      <initiator>boolean</initiator>
      <external-if-name>String</external-if-name>
      <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>Integer</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>
    </vpn-device-bean>
</devices-to-modify>
</device-modification>
</modify-vpn>

```

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>

```

## 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",
        "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>
      <preshaed-key>String</preshaed-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>
```

## 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",
      "is-hub" : "Boolean",
      "ike-address" : "String",
      "bgp-as-number" : "Integer",
      "ike-group-id" : "String",
      "initiator" : "Boolean",
      "external-if-name" : "String",
      "external-if-display-name" : "String",
      "proxy-id" : "String",
      "protected-networks" : {
        "protected-network" : [ {
          "name" : "String",
          "id" : "Integer",
          "domain-id" : "Integer",
          "uri" : "String",
          "link" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "protected-network-zones" : {
        "protected-network-zone" : [ "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" : "Integer",
      "extranet-device" : "Boolean",
      "tunnel-vr" : "String",
      "device-moid" : "String",
      "device-name" : "String",
      "device-ip" : "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"
  },
  "uri" : "String",
  "totalSize" : "Integer"
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<devices>
  <device>
    <certificate>String</certificate>
    <is-hub>Boolean</is-hub>
    <ike-address>String</ike-address>
    <bgp-as-number>Integer</bgp-as-number>
    <ike-group-id>String</ike-group-id>
    <initiator>Boolean</initiator>
    <external-if-name>String</external-if-name>
    <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>
    <protected-network-interfaces>
      <protected-network-interface>String</protected-network-interface>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </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>Integer</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>
    <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>
  </device>

```

```
<id>Integer</id>  
<uri>String</uri>  
</device>  
<uri>String</uri>  
<totalSize>Integer</totalSize>  
</devices>
```



## PART 2

# Security Director Objects

## CHAPTER 5

### Access Profile Management RESTful Web Services

The following operations can be performed using Security 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

## 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"
    },
    "description" : "String",
    "delete-from-device" : "Boolean",
    "authentication-order1" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
    "authentication-order2" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
    "name" : "String",
    "job-id" : "String",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "name" : "String",
        "ip" : "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>
      <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>
  <description>String</description>
  <delete-from-device>Boolean</delete-from-device>
  <authentication-order1>LDAP</authentication-order1>
  <authentication-order1>PASSWORD</authentication-order1>
  <authentication-order1>RADIUS</authentication-order1>
  <authentication-order1>SECURID</authentication-order1>
  <authentication-order1>NONE</authentication-order1>
  <authentication-order2>LDAP</authentication-order2>
  <authentication-order2>PASSWORD</authentication-order2>
  <authentication-order2>RADIUS</authentication-order2>
  <authentication-order2>SECURID</authentication-order2>
  <authentication-order2>NONE</authentication-order2>
  <name>String</name>
  <job-id>String</job-id>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
    </device-lite>
  </device-list>
</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"
    },
    "description" : "String",
    "delete-from-device" : "Boolean",
    "authentication-order1" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
    "authentication-order2" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
  }
}

```

```

"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"
  } ],
  "uri" : "String"
},
"uri" : "String",
"link" : "String"
}
}

```

## 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>
  <description>String</description>
  <delete-from-device>Boolean</delete-from-device>
  <authentication-order1>LDAP</authentication-order1>
  <authentication-order1>PASSWORD</authentication-order1>
  <authentication-order1>RADIUS</authentication-order1>
  <authentication-order1>SECURID</authentication-order1>
  <authentication-order1>NONE</authentication-order1>
  <authentication-order2>LDAP</authentication-order2>
  <authentication-order2>PASSWORD</authentication-order2>
  <authentication-order2>RADIUS</authentication-order2>

```

```
<authentication-order2>SECURID</authentication-order2>
<authentication-order2>NONE</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-lite>
</device-list>
<uri>String</uri>
<link>String</link>
</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",
        "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"
    },
    "description" : "String",
    "delete-from-device" : "Boolean",
    "authentication-order1" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
    "authentication-order2" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
    "name" : "String",
    "job-id" : "String",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "name" : "String",
        "ip" : "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>
      <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>
  <description>String</description>
  <delete-from-device>Boolean</delete-from-device>
  <authentication-order1>LDAP</authentication-order1>
  <authentication-order1>PASSWORD</authentication-order1>
  <authentication-order1>RADIUS</authentication-order1>
  <authentication-order1>SECURID</authentication-order1>
  <authentication-order1>NONE</authentication-order1>
  <authentication-order2>LDAP</authentication-order2>
  <authentication-order2>PASSWORD</authentication-order2>
  <authentication-order2>RADIUS</authentication-order2>
  <authentication-order2>SECURID</authentication-order2>
  <authentication-order2>NONE</authentication-order2>
  <name>String</name>
  <job-id>String</job-id>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
    </device-lite>
  </device-list>
</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"
    },
    "description" : "String",
    "delete-from-device" : "Boolean",
    "authentication-order1" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
    "authentication-order2" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
  }
}

```

```

"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"
  } ],
  "uri" : "String"
},
"uri" : "String",
"link" : "String"
}
}

```

## 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>
  <description>String</description>
  <delete-from-device>Boolean</delete-from-device>
  <authentication-order1>LDAP</authentication-order1>
  <authentication-order1>PASSWORD</authentication-order1>
  <authentication-order1>RADIUS</authentication-order1>
  <authentication-order1>SECURID</authentication-order1>
  <authentication-order1>NONE</authentication-order1>
  <authentication-order2>LDAP</authentication-order2>
  <authentication-order2>PASSWORD</authentication-order2>
  <authentication-order2>RADIUS</authentication-order2>

```



```
<authentication-order2>SECURID</authentication-order2>
<authentication-order2>NONE</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-lite>
</device-list>
<uri>String</uri>
<link>String</link>
</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"
  } ],
  "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"
},
"description" : "String",
"delete-from-device" : "Boolean",
"authentication-order1" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
"authentication-order2" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
"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"
  } ],
  "uri" : "String"
},
"uri" : "String",
"link" : "String"
}
}

```

## 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>
<description>String</description>
<delete-from-device>Boolean</delete-from-device>
<authentication-order1>LDAP</authentication-order1>
<authentication-order1>PASSWORD</authentication-order1>
<authentication-order1>RADIUS</authentication-order1>
<authentication-order1>SECURID</authentication-order1>
<authentication-order1>NONE</authentication-order1>
<authentication-order2>LDAP</authentication-order2>
<authentication-order2>PASSWORD</authentication-order2>
<authentication-order2>RADIUS</authentication-order2>
<authentication-order2>SECURID</authentication-order2>
<authentication-order2>NONE</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-lite>
  <uri>String</uri>
</device-list>
<uri>String</uri>
<link>String</link>
</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
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"
      },
      "id": "Integer",
      "last-modified-by-user-name": "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"
      },
      "description": "String",
      "authentication-order1": [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
      "authentication-order2": [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
      "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"
} ],
"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>
    <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>PASSWORD</authentication-order1>
    <authentication-order1>RADIUS</authentication-order1>
    <authentication-order1>SECURID</authentication-order1>
    <authentication-order1>NONE</authentication-order1>
    <authentication-order2>LDAP</authentication-order2>
    <authentication-order2>PASSWORD</authentication-order2>
    <authentication-order2>RADIUS</authentication-order2>
    <authentication-order2>SECURID</authentication-order2>
    <authentication-order2>NONE</authentication-order2>
    <name>String</name>
    <domain-id>Integer</domain-id>
  </access-profile>
</access-profiles>

```

```
<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>
</device-list>
<uri>String</uri>
<link>String</link>
</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>
```

## 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"
      } ],
    }
  }
}
```

```

    "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"
  },
  "description" : "String",
  "delete-from-device" : "Boolean",
  "authentication-order1" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
  "authentication-order2" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
  "name" : "String",
  "job-id" : "Integer",
  "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"
}

```

## 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>
  </ldap-options>
</access-profile>

```



```
<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>
<delete-from-device>Boolean</delete-from-device>
<authentication-order1>LDAP</authentication-order1>
<authentication-order1>PASSWORD</authentication-order1>
<authentication-order1>RADIUS</authentication-order1>
<authentication-order1>SECURID</authentication-order1>
<authentication-order1>NONE</authentication-order1>
<authentication-order2>LDAP</authentication-order2>
<authentication-order2>PASSWORD</authentication-order2>
<authentication-order2>RADIUS</authentication-order2>
<authentication-order2>SECURID</authentication-order2>
<authentication-order2>NONE</authentication-order2>
<name>String</name>
<job-id>Integer</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-lite>
  <uri>String</uri>
</device-list>
<uri>String</uri>
<link>String</link>
</access-profile>
```

## 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
----------------	---------------------

## 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"
    },
    "description" : "String",
    "delete-from-device" : "Boolean",
    "authentication-order1" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
    "authentication-order2" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
    "name" : "String",
    "job-id" : "Integer",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "name" : "String",
        "ip" : "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>
```

```

    <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>
<description>String</description>
<delete-from-device>Boolean</delete-from-device>
<authentication-order1>LDAP</authentication-order1>
<authentication-order1>PASSWORD</authentication-order1>
<authentication-order1>RADIUS</authentication-order1>
<authentication-order1>SECURID</authentication-order1>
<authentication-order1>NONE</authentication-order1>
<authentication-order2>LDAP</authentication-order2>
<authentication-order2>PASSWORD</authentication-order2>
<authentication-order2>RADIUS</authentication-order2>
<authentication-order2>SECURID</authentication-order2>
<authentication-order2>NONE</authentication-order2>
<name>String</name>
<job-id>Integer</job-id>
<device-list>
  <device-lite>
    <id>Integer</id>
    <name>String</name>
    <ip>String</ip>
  </device-lite>
</device-list>
</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"
  },
  "description" : "String",
  "delete-from-device" : "Boolean",
  "authentication-order1" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
  "authentication-order2" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
  "name" : "String",
  "job-id" : "Integer",
  "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"
}

```

## 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>
  </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>
</access-profile>

```

```

</ldap-options>
<description>String</description>
<delete-from-device>Boolean</delete-from-device>
<authentication-order1>LDAP</authentication-order1>
<authentication-order1>PASSWORD</authentication-order1>
<authentication-order1>RADIUS</authentication-order1>
<authentication-order1>SECURID</authentication-order1>
<authentication-order1>NONE</authentication-order1>
<authentication-order2>LDAP</authentication-order2>
<authentication-order2>PASSWORD</authentication-order2>
<authentication-order2>RADIUS</authentication-order2>
<authentication-order2>SECURID</authentication-order2>
<authentication-order2>NONE</authentication-order2>
<name>String</name>
<job-id>Integer</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-lite>
  <uri>String</uri>
</device-list>
<uri>String</uri>
<link>String</link>
</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

## 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"
    },
    "description" : "String",
    "delete-from-device" : "Boolean",
    "authentication-order1" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
    "authentication-order2" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
    "name" : "String",
    "job-id" : "Integer",
    "device-list" : {
      "device-lite" : [ {
        "id" : "Integer",
        "name" : "String",
        "ip" : "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>
      <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>
  <description>String</description>
  <delete-from-device>Boolean</delete-from-device>
  <authentication-order1>LDAP</authentication-order1>
  <authentication-order1>PASSWORD</authentication-order1>
  <authentication-order1>RADIUS</authentication-order1>
  <authentication-order1>SECURID</authentication-order1>
  <authentication-order1>NONE</authentication-order1>
  <authentication-order2>LDAP</authentication-order2>
  <authentication-order2>PASSWORD</authentication-order2>
  <authentication-order2>RADIUS</authentication-order2>
  <authentication-order2>SECURID</authentication-order2>
  <authentication-order2>NONE</authentication-order2>
  <name>String</name>
  <job-id>Integer</job-id>
  <device-list>
    <device-lite>
      <id>Integer</id>
      <name>String</name>
      <ip>String</ip>
    </device-lite>
  </device-list>
</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"
    },
    "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"
  },
}

```

```

"description" : "String",
"delete-from-device" : "Boolean",
"authentication-order1" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
"authentication-order2" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
"name" : "String",
"job-id" : "Integer",
"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"
}

```

## 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>
  <description>String</description>
  <delete-from-device>Boolean</delete-from-device>
  <authentication-order1>LDAP</authentication-order1>
  <authentication-order1>PASSWORD</authentication-order1>
  <authentication-order1>RADIUS</authentication-order1>
  <authentication-order1>SECURID</authentication-order1>

```



```
<authentication-order1>NONE</authentication-order1>
<authentication-order2>LDAP</authentication-order2>
<authentication-order2>PASSWORD</authentication-order2>
<authentication-order2>RADIUS</authentication-order2>
<authentication-order2>SECURID</authentication-order2>
<authentication-order2>NONE</authentication-order2>
<name>String</name>
<job-id>Integer</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-lite>
  <uri>String</uri>
</device-list>
<uri>String</uri>
<link>String</link>
</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
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"
      },
      "id" : "Integer",
      "last-modified-by-user-name" : "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"
      },
      "description" : "String",
      "authentication-order1" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
      "authentication-order2" : [ "LDAP", "PASSWORD", "RADIUS", "SECURID", "NONE" ],
      "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"
    } ],
    "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>
    </ldap-servers>
    <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>PASSWORD</authentication-order1>
    <authentication-order1>RADIUS</authentication-order1>
    <authentication-order1>SECURID</authentication-order1>
    <authentication-order1>NONE</authentication-order1>
    <authentication-order2>LDAP</authentication-order2>
    <authentication-order2>PASSWORD</authentication-order2>
    <authentication-order2>RADIUS</authentication-order2>
    <authentication-order2>SECURID</authentication-order2>
    <authentication-order2>NONE</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>
    </device-list>
    <uri>String</uri>
  </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": "Integer"
  }
}
```

Sample XML Output:

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

## CHAPTER 6

### Active Directory Management RESTful Web Services

The following operations can be performed using Security 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",
```

```

        "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" ]
    } ]
},
"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" ]
    } ]
},
"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>
          <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-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>
        <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-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",
"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" ],
        "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" ],
        "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>
      </domain-controllers>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </domain>
  </domains>
  <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>
  </ldap-addresses>
  <base>String</base>
  <user-name>String</user-name>
  <uri>String</uri>
</active-directory>
<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-reference>
</exclude-filter-addresses>
```

```

    <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>
    <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>
    <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 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",
        "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" ],
    "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" ],
  "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>
      </domain-controllers>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </domain>
  </domains>
  <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>
  </ldap-addresses>
  <base>String</base>
  <user-name>String</user-name>
  <uri>String</uri>
</active-directory>
<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>
    <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>
    <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",
      "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" ]
    },
    "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" ]
    } ],
    "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",
            "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>
      </address-reference>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </exclude-filter-addresses>
    <on-demand-probe>Boolean</on-demand-probe>
  </active-directory>
</active-directories>

```

```

<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-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>
      <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>
  </domain>
</domains>
<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

## 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"
          } ],
          "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" ]
  } ]
},
"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" ]
  } ]
},
"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>
          <domain-controller-name>String</domain-controller-name>
        </domain-controller>
      </domain-controllers>
      <totalSize>Integer</totalSize>
    </domain>
  </domains>
  <ldap-addresses>
    <ldap-address>
      <user-grp-ip-address>String</user-grp-ip-address>
      <user-grp-port>String</user-grp-port>
    </ldap-address>
  </ldap-addresses>
</active-directory>

```

```

        <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-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>
        <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-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",
    "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" ],
        "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" ],
        "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>
  </domains>
</active-directory>

```

```

<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>
    <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>
    <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>

```

## 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" : "Integer",
    "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"
          } ],
          "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" ]
      } ]
    }
  }
}
```

```

    },
    "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" ]
      } ]
    },
    "wmi-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>Integer</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-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>
    <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-reference>
</include-filter-addresses>
<wmi-time-out>Integer</wmi-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" : "Integer",
    "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",
"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" ],
    "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" ],
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "wmi-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>Integer</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>
  </domains>
</active-directory>

```



```

    </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>
    <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>
    <uri>String</uri>
  </address-reference>
  <uri>String</uri>
</include-filter-addresses>
<wmi-time-out>Integer</wmi-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" : "Integer",
    "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",
"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" ],
    "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" ],
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "wmi-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>Integer</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>
      </domain-controllers>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </domain>
  </domains>
  <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>
  </ldap-addresses>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</active-directory>

```

```

<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>
    <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>

```

```

        <uri>String</uri>
      </address-reference>
      <uri>String</uri>
    </include-filter-addresses>
    <wmi-time-out>Integer</wmi-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",
      "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" ]
    },
    "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" ]
    } ],
    "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",
            "totalSize" : "Integer"
        }
    } ],
    "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",
"totalSize" : "Integer"
},
"wmi-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-reference>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </exclude-filter-addresses>
    <on-demand-probe>Boolean</on-demand-probe>
    <description>String</description>
    <name>String</name>
  </active-directory>
</active-directories>

```



```

<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-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>
      <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>
    </domain-controllers>
    <totalSize>Integer</totalSize>
  </domain>
</domains>
<ldap-addresses>
  <ldap-address>
    <user-grp-ip-address>String</user-grp-ip-address>
    <user-grp-port>String</user-grp-port>
  </ldap-address>
</ldap-addresses>

```

```

        <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>
<uri>String</uri>
<link>String</link>
</active-directory>
<uri>String</uri>
<totalSize>Integer</totalSize>
</active-directories>

```

## 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" : "Integer",
    "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"
          } ],
          "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" ]
      } ]
    },
    "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" ]
      } ]
    }
  }
}
```

```
    } ]
  },
  "wmi-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>Integer</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-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>
        <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-reference>
</include-filter-addresses>
<wmi-time-out>Integer</wmi-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" : "Integer",
    "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",
"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" ],
    "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" ],
    "uri" : "String"
  } ],
  "uri" : "String"
}

```

```

    },
    "wmi-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>Integer</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>
    </address-reference>
  </exclude-filter-addresses>

```

```

    <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>
    <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>
    <uri>String</uri>
  </address-reference>
  <uri>String</uri>
</include-filter-addresses>
<wmi-time-out>Integer</wmi-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>
```

## 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
----------------	-----------------------

---

## CHAPTER 7

### Address Management RESTful Web Services

The following operations can be performed using Security Director Address Management RESTful Web Services

#### 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
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

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" ],
      "ip-address" : "String",
      "description" : "String",
      "host-name" : "String",
      "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "global" : "String",
      "id" : "Integer",
    }
  ]
}
```

```

    "uri" : "String",
    "link" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "owning-system" : "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>
    <address-type>ALL_IPV6</address-type>
    <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
    <ip-address>String</ip-address>
    <description>String</description>
    <host-name>String</host-name>
    <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>
    <uri>String</uri>
    <link>String</link>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <owning-system>String</owning-system>
  </address>
  <uri>String</uri>
  <totalSize>int</totalSize>
</addresses>

```

## Modify Address

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.

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" ],
        "host-name": "String",
        "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" ],
    "ip-address": "String",
    "description": "String",
    "host-name": "String",
    "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>
    <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>
    <host-name>String</host-name>
    <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>
<ip-address>String</ip-address>
<description>String</description>
<host-name>String</host-name>
<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" ],
        "host-name" : "String",
        "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" ],
    "ip-address" : "String",
    "description" : "String",
    "host-name" : "String",
    "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>
      <host-name>String</host-name>
      <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>
<ip-address>String</ip-address>
<description>String</description>
<host-name>String</host-name>
<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/{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.

URI	/api/juniper/sd/address-management/addresses
HTTP method	POST
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" ],
        "host-name": "String",
        "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" ],
    "ip-address": "String",
    "description": "String",
    "host-name": "String",
    "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>
      <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>
      <host-name>String</host-name>
      <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>
  <ip-address>String</ip-address>
  <description>String</description>
  <host-name>String</host-name>
  <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" ],
        "host-name": "String",
        "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" ],
    "ip-address": "String",
    "description": "String",
    "host-name": "String",
    "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>
    <host-name>String</host-name>
    <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>
<ip-address>String</ip-address>
<description>String</description>
<host-name>String</host-name>
<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.

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

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" ],
        "host-name": "String",
        "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" ],
    "ip-address": "String",
    "description": "String",
    "host-name": "String",
    "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>
      <host-name>String</host-name>
      <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>
  <ip-address>String</ip-address>
  <description>String</description>
  <host-name>String</host-name>
  <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>
```

## CHAPTER 8

### Antispam Profile Management RESTful Web Services

The following operations 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" : "Boolean",
    "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"?>
<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>Boolean</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" : "Boolean",
    "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>Boolean</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

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" : "Boolean",
    "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>Boolean</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": "String",
      "default-action": [ "BLOCK_EMAIL", "NONE", "TAG_HEADER", "TAG_SUBJECT" ],
      "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-spam-profiles>
  <anti-spam-profile>
    <tag-string>String</tag-string>
    <name>String</name>
    <description>String</description>
    <black-list>String</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
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" : "Boolean",
    "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"?>
<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>Boolean</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" : "Boolean",
    "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>Boolean</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>
```

## 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" : "Boolean"
  }
}
```

### 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>Boolean</default-sbl-server>
</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" : "Boolean",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "uri" : "String"
  }
}
```



## 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>Boolean</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>
</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
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" : "Boolean",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "uri" : "String"
  }
}
```

### 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>Boolean</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>
</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": "String",
      "default-action": [ "BLOCK_EMAIL", "NONE", "TAG_HEADER", "TAG_SUBJECT" ],
      "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-spam-profiles>
  <anti-spam-profile>
    <tag-string>String</tag-string>
    <name>String</name>
    <description>String</description>
    <black-list>String</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>
```

</anti-spam-profiles>

## 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" : "Boolean"
  }
}
```

## 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>Boolean</default-sbl-server>
</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" : "Boolean",
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "domain-name" : "String",
    "domain-id" : "Integer",
    "uri" : "String"
  }
}
```

## 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>Boolean</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>
</anti-spam-profile>
```

## 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
Accept-Type	None
Access-Control	deleteAntiSpam

---

## CHAPTER 9

# Antivirus Profile Management RESTful Web Services

The following operations 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",
    }
  }
}
```

```

    "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>
  
```



```

<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>

```

```

<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",

```

```

    "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>
  
```

```

    <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>

```

```

<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

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" ],
      }
    }
  }
}
```

```

        "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>
  </fallback-block-notification-options>

```

```

    <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>

```



```
<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

### 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.

---

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
----------------	-----------------

---

## 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" ]
  }
}
```

## 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>
    </fallback-option>
  </fallback-options>
</anti-virus-profile>
```

```

    <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" : {

```

```

        "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" ]
}
}

```

## 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>
    </fallback-option>
  </fallback-options>
</anti-virus-profile>
```



```

<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>

```

## 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",
      "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" ]
  },
  "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" ]
}
}

```

## 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>
  </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>
</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",
        "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" ],
            "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" ],
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String"
}
}
}

```

## 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>
    </fallback-block-notification-option>
  </fallback-block-notification-options>
</anti-virus-profile>

```

```

    <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>
    <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>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
</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
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" ],
            "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" ],
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String"
}
}

```

## 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>
  </fallback-block-notification-options>

```



```

    <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>
      <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>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
</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

Sample JSON Output:

```
{
  "anti-virus-profiles" : {
    "anti-virus-profile" : [ {
      "name" : "String",
      "profile-type" : [ "KASPERSKY", "JUNIPER_EXPRESS", "SOPHOS" ],
      "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>
    <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>
```

## 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

### 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" ]
      },
      "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" ]
  }
}

```

## 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>
  </fallback-block-notification-options>
</anti-virus-profile>

```

```

    <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>
    </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>
</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",
    "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" ],
      "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" ],
  "created-by-user-name" : "String",
  "last-modified-by-user-name" : "String",
  "uri" : "String"
}
}

```

## 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>
    <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>
<created-by-user-name>String</created-by-user-name>
<last-modified-by-user-name>String</last-modified-by-user-name>
<uri>String</uri>
</anti-virus-profile>
```

## Delete Antivirus Profile

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

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



## CHAPTER 10

# Application Firewall Management RESTful Web Services

The following operations can be performed using Security 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, you 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"
  }
}
```

```
}
}
```

## 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>
```

## 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"
  }
}
```

## 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

## 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

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"
  }
}
```

}

## 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>
```

## CHAPTER 11

# Application Signature Management RESTful Web Services

The following operations can be performed using Security Director Application Signature Management RESTful Web Services

## Modify Application Signature

This request is used to modify an application signature.

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

Sample JSON Input

```
{
  "app-sig" : {
    "over-list" : {
      "over-list" : [ "String" ],
      "totalSize" : "Integer"
    },
    "pattern-sets" : {
      "pattern-set" : [ {
        "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"
},
"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"
},
"default-port" : "String",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"category" : "String",
"app-sig-type" : "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>
      <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>
    </pattern-set>
  </pattern-sets>
  <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>
</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>
<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>
<definition-type>Hidden</definition-type>
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
<definition-type>All</definition-type>
<category>String</category>
<app-sig-type>String</app-sig-type>
<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>
    <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" : [ {

```

```

"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"
},
"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",
"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",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"category" : "String",
"last-modified-by-user-name" : "String",
"domain-name" : "String",
"app-sig-type" : "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>
      <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>
    </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>
  <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>
  <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>
  <app-sig-type>String</app-sig-type>
  <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>
  <type>application</type>
  <type>group</type>
  <link>String</link>
  <uri>String</uri>
</app-sig>

```

## Get Application Signature By ID

This request is used to get an application signature information by 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": [ {
        "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"
} ],
"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",
"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",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"category" : "String",
"last-modified-by-user-name" : "String",
"domain-name" : "String",
"app-sig-type" : "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>
      <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>
    </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>
  <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>
<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>
<app-sig-type>String</app-sig-type>
<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>
<type>application</type>
<type>group</type>
<link>String</link>
<uri>String</uri>
</app-sig>
```

## Get All Application Signatures

This request is used to get all application signatures configured in Security Director.

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" ],
      "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>
</app-sigs>
```



```
<totalSize>Integer</totalSize>
</app-sigs>
```

## Create Application Signature

This request is used to create an application signature.

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" : [ {
        "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"
    },
    "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"
  },
  "default-port" : "String",
  "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "category" : "String",
  "app-sig-type" : "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>
      <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>
    </pattern-set>
    <versions>
      <version>String</version>
      <totalSize>Integer</totalSize>
    </versions>
    <ordered>Boolean</ordered>
  </pattern-sets>
</app-sig>

```

```

<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>
</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>
<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>
<definition-type>Hidden</definition-type>
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
<definition-type>All</definition-type>
<category>String</category>
<app-sig-type>String</app-sig-type>
<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>
        <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" : [ {
        "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"
} ],
"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",
"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",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"category" : "String",
"last-modified-by-user-name" : "String",
"domain-name" : "String",
"app-sig-type" : "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>
      <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>
    </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>
  <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>

```

```

<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>
<app-sig-type>String</app-sig-type>
<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>
<type>application</type>
<type>group</type>
<link>String</link>
<uri>String</uri>
</app-sig>

```

## Delete Application Signature

This request is used to delete an application signature.

---

URI	/api/juniper/sd/app-sig-management/app-sigs/{id}
-----	--

HTTP method	DELETE
-------------	--------

Content-Type	None
--------------	------

Accept-Type	None
-------------	------

Access-Control	deleteAppSig
----------------	--------------

---

## CHAPTER 12

### Change Control Workflow RESTful Web Services

The following operations can be performed using Security 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"
  }
}
```

## 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",
  }
}
```

```

"ticket-no" : "String",
"policy-name" : "String",
"comments" : "String",
"service-type" : [ "POLICY", "IPSPOLICY", "NAT", "VPN", "APBR", "JIMS", "GLOBAL", "GLOBALIDP" ],
"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>
  <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:

```

{
  "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",
"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"?>
<monitable-task-instances>
  <monitable-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>
```

## 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",
      "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>
    <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>
</monitable-task-instance-managed-object>
<uri>String</uri>
<totalSize>Integer</totalSize>
</monitable-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

### 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"
  }
}
```

## 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
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"
      },
      "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.

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 supported (currently Firewall and NAT) policies when there is an outstanding change.

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" ],
      "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>
        <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>
  </change-request-policy>
</change-request-policies>
```

```
<service-type>GLOBAL</service-type>
<service-type>GLOBALIDP</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

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"?>
<depends-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>
</depends-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

## 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"
  }
}
```

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"
  }
}
```

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"
  }
}
```

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>
```

## 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
-----	---

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
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" ],
    "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>
  <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" ],
    "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>
  <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>
<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
Access-Control	SD.DeployCRs

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"
    ] },
    "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>
```

## CHAPTER 13

# Content Filtering Profile Management RESTful Web Services

The following operations can be performed using Security 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" ]
  }
}
```

```

    },
    "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>

```



```
<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" : [ "ACTIVE", "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>
    <block-content-type>ACTIVE</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>
```

## 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" : [ "ACTIVEEX", "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>
    <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>
</content-filtering-profile>

```

```

    <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
-------------	-----

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>
```

```
<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

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" : [ "ACTIVE_X", "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"
  }
}
```



## 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"
    }
  }
}
```

```

    },
    "block-content-type-list" : {
      "block-content-type" : [ "ACTIVE", "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>

```

```

    <block-content-type>ACTIVE</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>

```

## 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" : [ "ACTIVE", "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" ]
    }
  }
}
```

## 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>ACTIVE</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>
</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" : [ "ACTIVE", "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"
}
}
```

## 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>ACTIVE_X</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>
</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" : [ "ACTIVEVEX", "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"
}
}

```

## 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>ACTIVE</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>
  </notification-options>
</content-filtering-profile>

```



```

    <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>
</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
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>
    <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>

```

## 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
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" : [ "ACTIVE_X", "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" ]
    }
  }
}
```

## 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>
</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"
}
}

```

## 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>ACTIVE_X</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>
</content-filtering-profile>

```

```

</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>
</content-filtering-profile>

```

## 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

## CHAPTER 14

### Extranet Device Management RESTful Web Services

The following operations can be performed using Securty 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" : {
    "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>
  <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



## 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" : {
    "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>
  <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>
```

## Sample JSON Output:

```
{
  "extranet-device" : {
    "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>
  <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.

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" : {
    "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>
  <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>
```

Sample JSON Output:

```
{
  "extranet-device" : {
    "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>
  <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
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>

```

## CHAPTER 15

### Firewall Policy Management Restful Services

The following operations can be performed using Security Director Firewall Policy Management Restful Services

#### Convert Traditional Firewall Policies to Unified Firewall Policies

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	ConvertPolicy

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",

```

```

        "rowId" : "int"
    },
    "name" : "String",
    "appendIdToCustomName" : "boolean",
    "retryCtx" : {
        "serialVersionUID" : "long",
        "oldJobInstanceld" : "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>
  <oldJobInstanceld>int</oldJobInstanceld>
</retryCtx>

```

## Sample JSON Output:

```

{
  "jobInstanceld" : "String",
  "taskName" : "String",
  "jobState" : [ "SCHEDULED", "QUEUED", "STARTING", "INPROGRESS", "DONE", "CANCELLING",
    "DISABLED" ],
  "jobStatus" : [ "UNDETERMINED", "INCOMPLETE", "FAILURE", "SUCCESS", "CANCELLED",
    "DEPRECATED" ],
  "endTime" : "Date",
  "scheduledStartTime" : "Date",
  "startTime" : "Date",
  "retryGroupld" : "String",
  "dMsg" : {
    "context" : {
      "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",
            "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>
    
```



```

<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/>
<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>

```

## CHAPTER 16

### Get IDP Policies

The following operations can be performed using Security 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",

```

```

    "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>
    </device-list>
    <uri>String</uri>
  </policy>
</policies>

```

```
</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>
```

## CHAPTER 17

### IPS Signature Management RESTful Web Services

The following operations can be performed using Security 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 useful when required 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"
  }
}
```

## 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",
  }
}
```

```

"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", "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" ]
},
"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" : {
    "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",
        "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"
        }
      } ],
      "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",
        "display-field" : "String",
        "filter-value" : "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>
  <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>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>
</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>
</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>
            <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>
      </ips-sig-attack-member>
    </members>
    <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>
  </ips-sig-attack>
</attacks>
<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>
</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",
"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", "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" ],
    "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",

```

```

    } ],
    "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"
    }
  },
  "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",
    "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"
}
}

```

## 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>
  </references>

```

```

</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>
<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>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>
<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>
<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>
      </ips-sig-attack-member>
    </members>
  </ips-sig-attack>
  <header-tests>
    <ips-sig-header-test>
      <testvalue>String</testvalue>
    </ips-sig-header-test>
  </header-tests>
</attacks>

```

```

        <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>
</filters>
<uri>String</uri>
</ips-signature>

```

## Get IPS Signature By ID

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",
        "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", "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" ],
    "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" : [ "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"
    }
},
"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",
        "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"
}

```

## 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>
  </references>
</ips-signature>

```

```

    <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>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>
<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>
<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>
    </ips-sig-attack-member>
  </members>
  <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>
  </header-tests>
</attacks>
</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>
</filters>
<uri>String</uri>
</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",
      "direction": "String",
      "severity": "String",
      "recommended-action": "String",
      "category": "String",
      "definition-type": [ "Hidden", "Predefined", "Custom", "All" ],
      "activation-date": "String",
      "uri": "String",
      "link": "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>
  </ips-signature>
</ips-signatures>
```

## Delete IPS Signature

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

## 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", "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" ]
},
"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" : {
        "column-data-name" : [ "String" ],
        "totalSize" : "Integer"
    }
},
},
"cves" : "String",
"internal-id" : "String",
"edit-version" : "Integer",
"service" : "String",
"services" : {
    "id" : "Integer",
    "values" : {
        "value" : [ "String" ],

```

```

    }
  },
  "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",
          "order" : "String",
          "pattern" : "String",
          "header-tests" : {
            "ips-sig-header-test" : [ {
              "testvalue" : "String",
              "protocol" : "String",
              "vartype" : "String",
              "name" : "String",
              "testmatch" : "String"
            } ],
            "totalSize" : "Integer"
          }
        } ],
        "totalSize" : "Integer"
      }
    } ],
    "totalSize" : "Integer"
  },
  "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"
    } ]
}
}
}

```

## 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>
  </references>

```

```

</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>
  <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>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>
</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>
</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>
            <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>
  </ips-sig-attack>
  <timebinding>
    <id>Integer</id>
    <scope>String</scope>
  </timebinding>
</attacks>

```

```

        <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>
</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",
  "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", "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" ],
    "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" ],

```

```

        "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",

```

```

        "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"
},

```

```
"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"
}
```

## 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>
</ips-signature>
```

```

</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>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>
<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>

```

```

<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>
      </ips-sig-attack-member>
    </members>
  </ips-sig-attack>
</attacks>
  <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>
</filters>
<uri>String</uri>
</ips-signature>

```

## 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",
    "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", "ADDRESS", "SSLFORWARDPROXYPROFILE",
"ACCESSPROFILE", "ADDRESSGRP_TYPE", "SERVICE", "PORTSET", "APPLICATIONGRP_TYPE",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_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",
"UTM_DEVICE_PROFILE", "UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE",
"SD_PROVISIONING_RESULT", "DYNAMIC_ADDRESS", "CHANGE_REQUEST",
"UNSUBMITTED_POLICIES", "APP_FW_POLICY", "APPQOS", "APPQOS_RATELIMITER",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "ACTIVE_DIRECTORY" ]
},
"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" : {
    "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",
        "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",
    "display-field" : "String",
    "filter-value" : "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>ADDRESS</object-type>
  <object-type>SSLFORWARDPROXYPROFILE</object-type>
  <object-type>ACCESSPROFILE</object-type>
  <object-type>ADDRESSGRP_TYPE</object-type>
  <object-type>SERVICE</object-type>
  <object-type>PORTSET</object-type>
  <object-type>APPLICATIONGRP_TYPE</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>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>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>UNSUBMITTED_POLICIES</object-type>
  <object-type>APP_FW_POLICY</object-type>
  <object-type>APPQOS</object-type>
  <object-type>APPQOS_RATELIMITER</object-type>
  <object-type>CHANGE_REQUEST_DEPLOYED</object-type>
  <object-type>THREAT_POLICY</object-type>
  <object-type>ACTIVE_DIRECTORY</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>
</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>
    <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>
</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",

```



```

"domain-id" : "Integer",
"column-model" : {
  "object-name" : "String",
  "object-type" : [ "VPN", "NAT_POLICY", "ADDRESS", "SSLFORWARDPROXYPROFILE",
"ACCESSPROFILE", "ADDRESSGRP_TYPE", "SERVICE", "PORTSET", "APPLICATIONGRP_TYPE",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_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",
"UTM_DEVICE_PROFILE", "UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE",
"SD_PROVISIONING_RESULT", "DYNAMIC_ADDRESS", "CHANGE_REQUEST",
"UNSUBMITTED_POLICIES", "APP_FW_POLICY", "APPQOS", "APPQOS_RATELIMITER",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "ACTIVE_DIRECTORY" ],
  "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"
  }
},
"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",
          "protocol" : "String",
          "vartype" : "String",
          "name" : "String",
          "testmatch" : "String",
          "uri" : "String"
        } ],
        "uri" : "String"
      }
    }
  } ],
  "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"
  }
}

```

```

        "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"
}
}

```

## 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>
  <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>ADDRESS</object-type>
    <object-type>SSLFORWARDPROXYPROFILE</object-type>
    <object-type>ACCESSPROFILE</object-type>
    <object-type>ADDRESSGRP_TYPE</object-type>
  </column-model>
</ips-signature>
```

```

<object-type>SERVICE</object-type>
<object-type>PORTSET</object-type>
<object-type>APPLICATIONGRP_TYPE</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>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>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>UNSUBMITTED_POLICIES</object-type>
<object-type>APP_FW_POLICY</object-type>
<object-type>APPQOS</object-type>
<object-type>APPQOS_RATELIMITER</object-type>
<object-type>CHANGE_REQUEST_DEPLOYED</object-type>
<object-type>THREAT_POLICY</object-type>
<object-type>ACTIVE_DIRECTORY</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>
<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>
  </ips-sig-attack>
  <members>
    <ips-sig-attack-member>
      <anomaly-id>String</anomaly-id>
    </ips-sig-attack-member>
  </members>
</attacks>

```

```

<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>
<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>
</ips-signature>
```

## Get IPS Signature By ID

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",
        "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", "ADDRESS", "SSLFORWARDPROXYPROFILE",
        "ACCESSPROFILE", "ADDRESSGRP_TYPE", "SERVICE", "PORTSET", "APPLICATIONGRP_TYPE",
        "APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
        "IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_TYPE", "APP_FW_RULE_TYPE",
        "NAT_RULE_SET", "NAT_POOL", "VPNDEVICE_TYPE", "VPNENDPOINT_TYPE",
        "VARIABLE_DEFINITION", "POLYZONEDEF_TYPE", "SOURCEIDENTITY_TYPE",
```

```

"EXTRANET_DEVICE", "IPSSIGSET_TYPE", "SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE",
"ANTI_VIRUS_PROFILE", "CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE",
"URL_CATEGORY_LIST", "EMAIL_ADDRESS_PATTERN", "UTM_DEVICE_PROFILE", "UTM_POLICY",
"POLICY_PROFILE", "VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT", "DYNAMIC_ADDRESS",
"CHANGE_REQUEST", "UNSUBMITTED_POLICIES", "APP_FW_POLICY", "APPQOS",
"APPQOS_RATELIMITER", "CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY",
"ACTIVE_DIRECTORY" ],
  "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"
  }
},
"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",
            "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"
    },
    "context" : "String",
    "service" : "String",
    "value" : "String",
    "negated" : "Boolean",
    "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"
},
"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"
}
}

```

## 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>
  </direction>
  <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>
  </filters>
  <uri>String</uri>
</ips-signature>

```

```

    <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>
  <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>ADDRESS</object-type>
    <object-type>SSLFORWARDPROXYPROFILE</object-type>
    <object-type>ACCESSPROFILE</object-type>
    <object-type>ADDRESSGRP_TYPE</object-type>
    <object-type>SERVICE</object-type>
    <object-type>PORTSET</object-type>
    <object-type>APPLICATIONGRP_TYPE</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>APP_FW_RULE_TYPE</object-type>
    <object-type>NAT_RULE_SET</object-type>
    <object-type>NAT_POOL</object-type>
  </column-model>

```

```

<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>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>UNSUBMITTED_POLICIES</object-type>
<object-type>APP_FW_POLICY</object-type>
<object-type>APPQOS</object-type>
<object-type>APPQOS_RATELIMITER</object-type>
<object-type>CHANGE_REQUEST_DEPLOYED</object-type>
<object-type>THREAT_POLICY</object-type>
<object-type>ACTIVE_DIRECTORY</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>
</members>
</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>
<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>
          </ips-sig-pattern-constraint>
        </constraints>
      </ips-sig-attack-member>
    </members>
  </ips-sig-attack>
</attacks>

```

```

        <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>
<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>
</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",
"direction" : "String",
"severity" : "String",
"recommended-action" : "String",
"category" : "String",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"activation-date" : "String",
"uri" : "String",
"link" : "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>
  </ips-signature>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</ips-signatures>

```

## 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

## 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", "ADDRESS", "SSLFORWARDPROXYPROFILE",
"ACCESSPROFILE", "ADDRESSGRP_TYPE", "SERVICE", "PORTSET", "APPLICATIONGRP_TYPE",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_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",
"UTM_DEVICE_PROFILE", "UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE",
"SD_PROVISIONING_RESULT", "DYNAMIC_ADDRESS", "CHANGE_REQUEST",
"UNSUBMITTED_POLICIES", "APP_FW_POLICY", "APPQOS", "APPQOS_RATELIMITER",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "ACTIVE_DIRECTORY" ]
},
"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" : {
    "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",
        "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"
  }
}
}
}
}

```

## 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>ADDRESS</object-type>
  <object-type>SSLFORWARDPROXYPROFILE</object-type>
  <object-type>ACCESSPROFILE</object-type>
  <object-type>ADDRESSGRP_TYPE</object-type>
  <object-type>SERVICE</object-type>
  <object-type>PORTSET</object-type>
  <object-type>APPLICATIONGRP_TYPE</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>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>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>UNSUBMITTED_POLICIES</object-type>
  <object-type>APP_FW_POLICY</object-type>
  <object-type>APPQOS</object-type>
  <object-type>APPQOS_RATELIMITER</object-type>
  <object-type>CHANGE_REQUEST_DEPLOYED</object-type>
  <object-type>THREAT_POLICY</object-type>
  <object-type>ACTIVE_DIRECTORY</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>
</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>
    <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>
</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",

```

```

"domain-id" : "Integer",
"column-model" : {
  "object-name" : "String",
  "object-type" : [ "VPN", "NAT_POLICY", "ADDRESS", "SSLFORWARDPROXYPROFILE",
"ACCESSPROFILE", "ADDRESSGRP_TYPE", "SERVICE", "PORTSET", "APPLICATIONGRP_TYPE",
"APPLICATION_SIGNATURE", "IPS_SIGNATURE", "IPS_SIGNATURE_SET", "IPS_POLICY",
"IPSRULE_TYPE", "POLICY", "DCRULE_TYPE", "NATRULE_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",
"UTM_DEVICE_PROFILE", "UTM_POLICY", "POLICY_PROFILE", "VPNPROFILE_TYPE",
"SD_PROVISIONING_RESULT", "DYNAMIC_ADDRESS", "CHANGE_REQUEST",
"UNSUBMITTED_POLICIES", "APP_FW_POLICY", "APPQOS", "APPQOS_RATELIMITER",
"CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY", "ACTIVE_DIRECTORY" ],
  "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"
  }
},
"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",
          "protocol" : "String",
          "vartype" : "String",
          "name" : "String",
          "testmatch" : "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"
  }
}

```

```

        "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"
}
}

```

## 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>
  <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>ADDRESS</object-type>
    <object-type>SSLFORWARDPROXYPROFILE</object-type>
    <object-type>ACCESSPROFILE</object-type>
    <object-type>ADDRESSGRP_TYPE</object-type>
  </column-model>
</ips-signature>
```

```

<object-type>SERVICE</object-type>
<object-type>PORTSET</object-type>
<object-type>APPLICATIONGRP_TYPE</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>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>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>UNSUBMITTED_POLICIES</object-type>
<object-type>APP_FW_POLICY</object-type>
<object-type>APPQOS</object-type>
<object-type>APPQOS_RATELIMITER</object-type>
<object-type>CHANGE_REQUEST_DEPLOYED</object-type>
<object-type>THREAT_POLICY</object-type>
<object-type>ACTIVE_DIRECTORY</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>
<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>
  </ips-sig-attack>
  <members>
    <ips-sig-attack-member>
      <anomaly-id>String</anomaly-id>
    </ips-sig-attack-member>
  </members>
</attacks>

```



```

<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>
<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>
</ips-signature>

```

## Delete IPS Signature

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

## CHAPTER 18

# Identity Management RESTful Web Services

The following operations can be performed using Security 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"
  }
}
```

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 IdentityManagement 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

#### 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

Access-Control

manageIdentityManagement

Sample JSON Output:

```
{
  "devices": {
    "device": [ {
      "device-type": [ "LSYS", "ROOT" ],
      "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"
    } ],
    "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-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>
</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
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>

## 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" ],
      "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"
  },
  "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-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>
  </device>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</devices>

```

## 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

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" ]
      } ],
      "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" ]
      } ],
      "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-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>
  </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-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" ],
        "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" ],
        "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>
    
```

```

<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>
<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>
    <address-type>ALL_IPV6</address-type>
    <address-type>DYNAMIC_ADDRESS_GROUP</address-type>

```

```

    <address-type>Z_TYPE_IMPORT</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

## 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" ],
        "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" ],
        "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>
      <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>
      <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>
    <address-type>ALL_IPV6</address-type>
    <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
    <address-type>Z_TYPE_IMPORT</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.

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" ]
        } ]
      },
      "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" ]
        } ]
      },
      "domain-filters" : {
        "domain-filter" : [ "String" ],
        "totalSize" : "Integer"
      }
    } ],
  }
}
```

```

"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-reference>
    </exclude-filter-addresses>
    <secondary-address>String</secondary-address>
    <description>String</description>
    <name>String</name>
    <primary-address>String</primary-address>
  </identity-management>
</identity-managements>

```

```

<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-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 push the Identity Management Profile config to device.

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>
```

## 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" ]
      } ],
      "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" ]
  } ],
  "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-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>
</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-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" ],
        "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" ],
        "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>
      <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>
      <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>
      <address-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <address-type>Z_TYPE_IMPORT</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>

```

## CHAPTER 19

# License Management RESTful Web Services

The following operations can be performed using Security Director License Management RESTful Web Services

## Get 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
Accept-Type	application/json
Access-Control	manageLicenseManagement

Sample JSON Output:

```
{
  "license-inventory" : [ {
    "id" : "Integer",
    "name" : "String",
    "deviceIP" : "String",
    "deviceId" : "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",
    "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",
    "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"
}

```

## 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"
}
```

## Get 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"
}
```

}

## 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" ]
}
```

Sample JSON Output:

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

## 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"
}
```

## 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"
}
```

Sample JSON Output:

```
{
  "license-feature-response" : {
    "id" : "int",
    "ids" : [ "Integer" ],
    "status" : "String",
    "fileName" : "String",
    "text" : "String",
    "notification-enabled" : "boolean"
  }
}
```

## 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
----------------	-------------------------

Sample JSON Output:

```
{
  "license-feature-response" : {
    "id" : "int",
    "ids" : [ "Integer" ],
    "status" : "String",
    "fileName" : "String",
    "text" : "String",
    "notification-enabled" : "boolean"
  }
}
```

## 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"
  }
}
```

Sample JSON Output:

```
{
  "license-feature-response" : {
    "id" : "int",
    "ids" : [ "Integer" ],
    "status" : "String",
    "fileName" : "String",
    "text" : "String",
    "notification-enabled" : "boolean"
  }
}
```

}

## 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

Sample JSON Output:

```
{
  "id" : "int",
  "mailId" : "String",
  "days" : "int",
  "isActive" : "boolean"
}
```

## 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"
}
```

## 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 JSON Output:

```
{
  "license-feature-response" : {
    "id" : "int",
    "ids" : [ "Integer" ],
    "status" : "String",
    "fileName" : "String",
    "text" : "String",
    "notification-enabled" : "boolean"
  }
}
```

## 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"
}
```



Sample JSON Output:

```
{
  "license-feature-response" : {
    "id" : "int",
    "ids" : [ "Integer" ],
    "status" : "String",
    "fileName" : "String",
    "text" : "String",
    "notification-enabled" : "boolean"
  }
}
```

## 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

Sample JSON Output:

```
{
  "license-feature-response" : {
    "id" : "int",
    "ids" : [ "Integer" ],
    "status" : "String",
    "fileName" : "String",
    "text" : "String",
    "notification-enabled" : "boolean"
  }
}
```

## 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"
  }
}
```

Sample JSON Output:

```
{
  "license-feature-response": {
    "id": "int",
    "ids": [ "Integer" ],
    "status": "String",
    "fileName": "String",
    "text": "String",
    "notification-enabled": "boolean"
  }
}
```

## Get 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

Accept-Type          application/json

Access-Control          manageLicenseManagement

Sample JSON Output:

```
{
  "license-inventory" : [ {
    "id" : "Integer",
    "name" : "String",
    "deviceIP" : "String",
    "deviceId" : "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",
    "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",
    "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"  
}
```

## CHAPTER 20

# NAT Pool Management RESTful Web Services

The following operations can be performed using Security Director NAT Pool Management RESTful Web Services

## Modify NAT Pool

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" : "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" ]
    }
}
}
}

```

## 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>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>
  </pool-address>

```



```
<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>
</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" : "Integer",
      "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" ],
      "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>
  <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>Integer</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>
<uri>String</uri>
<link>String</link>
</pool-address>
</nat-pool>
```

## 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" : "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" ],
        "uri" : "String"
      },
      "pool-type" : "Integer",
    }
  ]
}
```

```

    "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>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>
      <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>

```

## Get NAT Pool By ID

This request is used to get NAT pool 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",
      "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" : "Integer",
  "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" ],
  "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>
  <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>Integer</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>
<uri>String</uri>
<link>String</link>
</pool-address>
</nat-pool>

```

## 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"
    },
    "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" : "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" ]
    }
  }
}
```

## 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>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>
</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" : "Integer",
  "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" ],
  "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>
  <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>Integer</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>
<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
Content-Type	None
Accept-Type	None
Access-Control	deleteNATPool

## CHAPTER 21

# NAT Port Set Management RESTful Web Services

The following operations can be performed using Security 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",
    }
  ]
}
```

```

    "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

### 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

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

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"
  }
}
```



```
}  
}
```

### 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

## 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

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
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

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"
  }
}
```

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>
```

## 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",
      "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>
```

## 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

## CHAPTER 22

### Policy Profile Management RESTful Web Services

The following operations can be performed using Security 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",

```



```

    "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>

```

## 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`

## 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",
    "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",
    "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>
<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>
<infragnet-redirect>NONE</infragnet-redirect>
<infragnet-redirect>REDIRECT_ALL</infragnet-redirect>
<infragnet-redirect>REDIRECT_UNAUTHENTICATED</infragnet-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>
<uri>String</uri>
<link>String</link>
</policy-profile>

```

## 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
Access-Control	ModifyPolicyProfile

## 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",
    "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"
  }
}
```

## 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>
  <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>
    <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>
</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",
```

```

"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",
"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>
  <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>
<uri>String</uri>
<link>String</link>
</policy-profile>

```

## Delete Policy Profile

This request is used to delete a policy profile.

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

### 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",
    "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"
}
}
```

## 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>
  <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>
    <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>
</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",
    "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",
    "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>
<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>
<uri>String</uri>
<link>String</link>
</policy-profile>
```

## 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

Access-Control        ModifyPolicyProfile

## 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",
    "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",
    "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"
  }
}
```

## 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>
  <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>
  <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>
</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",
    "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",
"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",
"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>
  <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>
```

```

<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>
<uri>String</uri>
<link>String</link>
</policy-profile>

```

## 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",
      "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>
```

## 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

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",
    "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",
    "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",
    "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>
  <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>
  <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>
  <uri>String</uri>
  <link>String</link>
</policy-profile>
```

## 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

## 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",
    "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",
    "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"
  }
}
```

## 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>
  <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>
  <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>
</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",
    "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",
"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",
"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>
  <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>
```

```
<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>
<uri>String</uri>
<link>String</link>
</policy-profile>
```

## Delete Policy Profile

This request is used to delete a policy profile.

URI	/api/juniper/sd/fwpolicy-management/policy-profiles/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	DeletePolicyProfile

## CHAPTER 23

# SSL Forward Proxy Profile Management RESTful Web Services

The following operations 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" ]
    }
  }
}
```

```

    },
    "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" ],
        "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>
    </address-reference>
  </exempted-addresses>

```



```

    <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>
    <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>

```

## 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" ],
        "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"
    }
  }
}
```

```

    },
    "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>
      <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>
</ssl-forward-proxy-profile>

```

```

</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>
</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>
</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
-------------	-----

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" ],
        "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"
},
"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-reference>
  </exempted-addresses>
</ssl-forward-proxy-profile>

```

```

    <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>
    <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>

```

## 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",
      } ],
    }
  }
}
```



```

        "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" ],
        "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>
    </server-certificates>
  </ssl-forward-proxy-profile>
</ssl-forward-proxy-profiles>

```

```

    <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>
      <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>
  <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

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" ],
        "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>
      <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>
      <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>

```

## 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" ],
        "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"
},
"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-reference>
  </exempted-addresses>
</ssl-forward-proxy-profile>

```

```

<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>
<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>

## Modify SSL Forward Proxy Profile

This request is used to modify the SSL forward proxy profile.

URI	/api/juniper/sd/ssl-forward-proxy-profile-management/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" ]
    },
    "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" ],
        "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"
    } ]
},
"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>
      <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-reference>
  </exempted-addresses>
</ssl-forward-proxy-profile>

```

```

        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</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>
<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",
      "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" ],
      "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"
  },
  "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>
      <domain-name>String</domain-name>
    </address-reference>
  </exempted-addresses>
</ssl-forward-proxy-profile>

```

```

<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>
<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>
<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/ssl-forward-proxy-profile-management/ssl-forward-proxy-profiles/{id}
HTTP method	GET
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",
        "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" ],
        "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"
},
"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>
      <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-reference>
  </exempted-addresses>
</ssl-forward-proxy-profile>
```

```

<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>
<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>
<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 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/ssl-forward-proxy-profile-management/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"
      },
      "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" ],
          "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>
    <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>
        <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>
<link>String</link>
<owning-system>String</owning-system>
</ssl-forward-proxy-profile>
<uri>String</uri>
<totalSize>Integer</totalSize>
</ssl-forward-proxy-profiles>
```

## Create SSL Forward Proxy Profile

This request is used to create a new SSL forward proxy profile.

URI	/api/juniper/sd/ssl-forward-proxy-profile-management/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
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" ],
        "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"
    } ]
},
"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>
      <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-reference>
  </exempted-addresses>
</ssl-forward-proxy-profile>

```

```

        <address-type>ALL_IPV6</address-type>
        <address-type>DYNAMIC_ADDRESS_GROUP</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>
<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",
      "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" ],
      "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"
  },
  "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>
      <domain-name>String</domain-name>
    </address-reference>
  </exempted-addresses>
</ssl-forward-proxy-profile>

```

```

<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>
<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>
<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>

```

## Delete SSL Forward Proxy Profile

This request is used to delete the SSL forward proxy profiles by ID.

---

URI	/api/juniper/sd/ssl-forward-proxy-profile-management/ssl-forward-proxy-profiles/{id}
-----	--

HTTP method	DELETE
-------------	--------

Content-Type	None
--------------	------

Accept-Type	None
-------------	------

Access-Control	manageSSLForwardProxyProfile
----------------	------------------------------

---



## CHAPTER 24

# Scheduler Management RESTful Web Services

The following operations can be performed using Security Director Scheduler Management RESTful Web Services

## Modify Firewall Policy Scheduler

This request is used to modify an existing scheduler.

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
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>
    </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>
      <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>
  </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>

```

## Get Firewall Policy Scheduler By ID

This request is used to get the firewall policy schedulers information by 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

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>
  <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>
```

## Get All Firewall Policy Schedulers

The request is used to list all the available 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"
  }
}
```

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>
```

## Create Firewall Policy Scheduler

This request is used to create a new scheduler.

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"
  }
}
```

## 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",
```



```
"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>
```

## Delete Firewall Policy Scheduler

This request is used to delete schedulers by ID.

---

URI	/api/juniper/sd/scheduler-management/schedulers/{id}
-----	--

HTTP method	DELETE
-------------	--------

Content-Type	None
--------------	------

Accept-Type	None
-------------	------

Access-Control	sdDeleteScheduler
----------------	-------------------

---

## CHAPTER 25

# Service Management RESTful Web Services

The following operations can be performed using Security Director Service Management RESTful Web Services

## Get All Services

This request is used to list all the services and their associated parameters configured in Security Director.

URI	/api/juniper/sd/service-management/services
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",
      "owning-system": "String"
    } ],
    "uri": "String",
  }
}
```

```
"totalSize" : "int"
}
}
```

## 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>
    <owning-system>String</owning-system>
  </service>
  <uri>String</uri>
  <totalSize>int</totalSize>
</services>
```

## Get Service By ID

This request is used to get a service by 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

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"
  }
}
```

## 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>
  </protocols>
  <uri>String</uri>
  <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>
  </members>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
</service>
```

## Modify Service

This request is used to modify an existing service.

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" : [ {
```

```

        "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>

```



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"
  }
}
```

## 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>
  </protocols>
  <uri>String</uri>
  <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>
  </members>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
</service>
```

## Create Service

This request is used to create a new service.

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" : [ {
```

```

        "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>

```

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"
  }
}
```

## 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>
  </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>
  </members>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
</service>
```

## Delete Service

This request is used to delete services by ID.

---

URI	/api/juniper/sd/service-management/services/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	DeleteApplication

---

## CHAPTER 26

# URL Category Management RESTful Web Services

The following operations can be performed using Security Director URL Category Management RESTful Web Services

## 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
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" ],
    "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>
  <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>
```

## 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" ],
    "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>
  <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 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" ],
    "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>
<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.

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" ],
    "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>
    <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

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" ],
    "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>
  <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>
```

## 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" ],
    "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>
  <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>
```

## 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
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" ],
    "url-patterns" : {
      "url-pattern" : [ { } ]
    }
  }
}
```

### 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>
  <url-patterns>
    <url-pattern/>
  </url-patterns>
</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" ],
    "url-patterns" : {
      "url-pattern" : [ { } ],
      "uri" : "String"
    }
  },
  "created-by-user-name" : "String",
  "last-modified-by-user-name" : "String",
  "uri" : "String"
}
```

## 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>
  <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>
</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" ],
    "url-patterns" : {
      "url-pattern" : [ { } ],
      "uri" : "String"
    },
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String"
  }
}
```

## 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>
  <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>
</url-category-list>
```

## Get All URL Categories

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

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",
      "description": "String",
      "domain-name": "String",
      "domain-id": "Integer",
      "id": "Integer",
      "definition-type": [ "Hidden", "Predefined", "Custom", "All" ],
      "profile-type": [ "CUSTOM", "SURF_CONTROL", "JUNIPER_ENHANCED" ],
      "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>
    <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>
    <link>String</link>
    <uri>String</uri>
    <global>String</global>
  </url-category-list>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</url-category-lists>
```

## 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
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" ],
    "url-patterns" : {
      "url-pattern" : [ { } ]
    }
  }
}
```

### 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>
```

```
<url-patterns>
  <url-pattern/>
</url-patterns>
</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" ],
    "url-patterns" : {
      "url-pattern" : [ { } ],
      "uri" : "String"
    },
    "created-by-user-name" : "String",
    "last-modified-by-user-name" : "String",
    "uri" : "String"
  }
}
```

#### 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>
  <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>
</url-category-list>
```

## 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
----------------	-------------------

---

## CHAPTER 27

### URL Category Managemet Restful Web Services

The following operations can be performed using Securiry Director URL Category 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-param-request+xml;version=1;charset=UTF-8 application/vnd.juniper.sd.urlcategory-management.save-urlcategory-download-param-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",

```



```

    "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",

```

```

        "complete-time" : "Integer",
        "user" : "String",
        "uri" : "String"
    },
    "uri" : "String",
    "totalSize" : "Integer"
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<monitable-task-instances>
  <monitable-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>
  </monitable-task-instance-managed-object>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</monitable-task-instances>

```

## 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/xml 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.

URI /api/juniper/sd/utm-management/urlcategory-management/url-category-setting

HTTP method GET

Content-Type None

Accept-Type application/xml  
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

Accept-Type	application/xml application/json
-------------	-------------------------------------

Access-Control	DefaultRead
----------------	-------------

Sample JSON Output:

```
{
  "category-base-filter" : {
    "category-actions" : {
      "category-action" : [ {
        "name" : "String",
        "displayName" : "String",
        "action" : "String"
      } ]
    },
    "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"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<category-base-filter>
  <category-actions>
    <category-action>
      <name>String</name>
      <displayName>String</displayName>
      <action>String</action>
    </category-action>
  </category-actions>
  <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>
</category-base-filter>
```

```
<image-name>String</image-name>
<owning-system>String</owning-system>
<tool-tip-string>String</tool-tip-string>
<uri>String</uri>
</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/xml application/json
Access-Control	DefaultRead

Sample JSON Output:

```
{
  "category-base-filters" : {
    "category-base-filter" : [ {
      "category-actions" : {
        "category-action" : [ {
          "name" : "String",
          "displayName" : "String",
          "action" : "String"
        } ]
      }
    } ],
    "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"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
}
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<category-base-filters>
  <category-base-filter>
    <category-actions>
      <category-action>
        <name>String</name>
        <displayName>String</displayName>
        <action>String</action>
      </category-action>
    </category-actions>
    <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-base-filter>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</category-base-filters>

```

## CHAPTER 28

# URL Pattern Management RESTful Web Services

The following operations 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" : {
```



```

        "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"
  }
}

```

## 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

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>
```

```
<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"
  }
}
```

```
}
}
```

## 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

## 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"
  }
}
```

## 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>
```

```
<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>
```

## 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" ]
  }
}
```

### 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>
</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"
  }
}
```

### 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>
</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
Access-Control	viewURLPattern

### 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"
  }
}
```

## 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>
</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"
  }
}
```

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>
```

## 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" ]
  }
}
```

#### 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>
</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"
  }
}

```

### 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>
</url-pattern>

```

## 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

## CHAPTER 29

# UTM Default Configuration Management RESTful Web Services

The following operations can be performed using Security Director UTM Default Configuration Management RESTful Web Services

## modify

URI	/api/juniper/sd/utm-management/utm-default-configurations/{id}
HTTP method	PUT
Content-Type	application/xml application/json
Accept-Type	application/xml application/json
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" : [ "ACTIVEEX", "EXE", "JAVA_APPLET", "HTTP_COOKIE", "ZIP" ]
        },
        "block-file-extension-list" : {
          "block-file-extension" : [ "String" ]
        }
      }
    }
  }
}
```

```

    "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", "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" ]
},
"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", "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" ]
},
"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", "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" ]
},
"default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ],
"block-msg-type" : [ "CUSTOM_REDIRECT_URL", "NONE" ],
"server-host" : "String",
"sockets" : "Integer",
"hash-key" : "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" : {
      "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",
"EMAIL_ADDRESS_PATTERN", "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" ]
  },
  "default-action" : [ "BLOCK_EMAIL", "NONE", "TAG_HEADER", "TAG_SUBJECT" ],
  "default-sbl-server" : "Boolean",

```

```

"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", "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" ]
},
"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>
        <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>
    </profile>
  </cf-default-config>
</utm-default-configuration>

```

```

<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>
<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>
      <fairly-safe>LOG_AND_PERMIT</fairly-safe>
      <fairly-safe>BLOCK</fairly-safe>
      <fairly-safe>QUARANTINE</fairly-safe>
      <fairly-safe>NONE</fairly-safe>
    </reputation-action>
  </url-category-action-list>
  <redirect-profile/>
</url-category-list/>

```

```

        <redirectProfileDetail>String</redirectProfileDetail>
    </url-category-action>
</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>
    <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>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>
</base-filter>
<routing-instance>String</routing-instance>
<wf-url-category-white-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>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>
</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>
</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>
<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>
  <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>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>
</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>
<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>
  <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>
<uuid>String</uuid>
</wf-default-config>
<av-default-config>
  <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>
  </av-scan-options>
  <image-name>String</image-name>
  <edit-version>Integer</edit-version>
  <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>
  <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>
    </proxy-profile>
    <pattern-updateouting-instance>String</pattern-updateouting-instance>
  </pattern-update>
  <pattern-update-proxy>
    <server>String</server>
    <port>Integer</port>
    <username>String</username>
    <password>String</password>
  </pattern-update-proxy>

```

```

</pattern-update-proxy>
<id>Integer</id>
<version>Integer</version>
<sophos-engine-options>
  <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>
    <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>
  </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>
  </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>
  </fall-back-options>
  <retry>Integer</retry>
  <server-ip>String</server-ip>
  <timeout-sophos>Integer</timeout-sophos>
</sophos-engine-options>
<predefined>Boolean</predefined>

```

```

<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>
<email-notify-settings>
  <custom-msg>String</custom-msg>
  <custom-msg-subject>String</custom-msg-subject>
  <admin-email>String</admin-email>
</email-notify-settings>
<av-url-category-white-list>
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  <id>Integer</id>
</av-url-category-white-list>
<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>
    <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>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>
</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>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>
</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",
    "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", "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" ],
  "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",
"SCHEDULER", "ZONESET", "ANTI_SPAM_PROFILE", "ANTI_VIRUS_PROFILE",
"CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE", "URL_CATEGORY_LIST",
"EMAIL_ADDRESS_PATTERN", "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" ],
  "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",

```



```

"ANTI_VIRUS_PROFILE", "CONTENT_FILTERING_PROFILE", "WEB_FILTERING_PROFILE",
"URL_CATEGORY_LIST", "EMAIL_ADDRESS_PATTERN", "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" ],
  "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",
    "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",
"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", "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" ],
    "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",
"EMAIL_ADDRESS_PATTERN", "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" ],

```

```

        "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>ACTIVE</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>
      </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>
      </notification-options>
    </profile>
  </cf-default-config>
</utm-default-configuration>

```

```

        <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>
                <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>
    </url-category-action-list>
    <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>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>
<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>
  <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>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>
<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>
<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>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>
<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>WEBSSENSE</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>
  <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>

```

```

</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>
    <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>
<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>
<object-type>EMAIL_ADDRESS_PATTERN</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>
<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>
<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>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>
<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>
  </device-lite>
  <uri>String</uri>
</device-list>
<uri>String</uri>
<link>String</link>
</utm-default-configuration>
```

get

URI	/api/juniper/sd/utm-management/utm-default-configurations
HTTP method	GET
Content-Type	None
Accept-Type	application/xml application/json
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" ],
        "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" ],
      "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>
    </av-default-config>
  </utm-default-configuration>
</utm-default-configurations>

```

```

    <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>
    <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>
      <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>
<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

URI	/api/juniper/sd/utm-management/utm-default-configurations/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteUTMDefaultConfiguration

## CHAPTER 30

# UTM Device Profile Management RESTful Web Services

The following operations can be performed using Security 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"
      } ]
    }
  }
}
```

```

    } ]
  },
  "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>

```

```

    <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" : {

```

```

    "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"
}

```



## 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>
  </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>
```

```

<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

## 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",
  }
}
```

```
"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>
  </av-mime-exception-white-list>
</utm-device-profile>
```

```

</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`

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>
```

```
<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.

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"
    }
  }
}
```



```

    },
    "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>
  </wf-url-category-black-list>

```

```

</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",

```

```

        "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>
  </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>
<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>

```

## 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",
    "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"
},
"wf-url-category-black-list" : {
  "name" : "String",
  "id" : "Integer"
},
"publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ]
}

```

## Sample XML Input

```

<?xml version="1.0" encoding="UTF-8"?>
<utm-device-profile>
  <name>String</name>
  <id>Integer</id>
  <description>String</description>
  <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>
  </wf-url-category-black-list>
  <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>

```

</utm-device-profile>

Sample JSON Output:

```
{
  "utm-device-profile" : {
    "name" : "String",
    "id" : "Integer",
    "description" : "String",
    "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"
  },
  "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"
}
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<utm-device-profile>
  <name>String</name>
  <id>Integer</id>
  <description>String</description>
  <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>
<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>
</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

Sample JSON Output:

```
{
  "utm-device-profile" : {
    "name" : "String",
    "id" : "Integer",
    "description" : "String",
    "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"
    },
    "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"
}
}
```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<utm-device-profile>
  <name>String</name>
  <id>Integer</id>
  <description>String</description>
  <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>
  </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>
<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>
</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
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>
    <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>

```

## Create UTM Device Profile

This request is used to create a new UTM device profile.

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",
    "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"
},
"wf-url-category-black-list" : {
  "name" : "String",
  "id" : "Integer"
},
"publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ]
}
}

```

## Sample XML Input

```

<?xml version="1.0" encoding="UTF-8"?>
<utm-device-profile>
  <name>String</name>
  <id>Integer</id>
  <description>String</description>
  <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>
  </wf-url-category-black-list>
  <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>
</utm-device-profile>

```

## Sample JSON Output:

```
{
  "utm-device-profile" : {
    "name" : "String",
    "id" : "Integer",
    "description" : "String",
    "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"
    },
    "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"
}
}
```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<utm-device-profile>
  <name>String</name>
  <id>Integer</id>
  <description>String</description>
  <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>
  </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>
<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>
</utm-device-profile>

```

## 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

## CHAPTER 31

# UTM Policy Management RESTful Web Services

The following operations can be performed using Secuirty Director UTM Policy Management RESTful Web Services

## 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" : {
    "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>
```

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>
  <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 request is used to list the UTM policy information by ID.

URI	/api/juniper/sd/utm-management/utm-policies/{id}
HTTP method	GET
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"
}

```

## 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>
</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" : { },

```

```

    "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>
    </anti-virus-profiles>
  </utm-policy>
</utm-policies>

```

```
</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

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>
```

```
<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"
    }
  },
}
```

```
"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>
```

```
<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>
```

## 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" : {
  "smtp-profile" : { },
  "pop3-profile" : { },
  "imap-profile" : { },
  "ftp-upload-profile" : { },
  "ftp-download-profile" : { },
  "http-profile" : { },
  "default-profile" : { }
},
"sessions-per-client" : "Integer"
}
}

```

## 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>
</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"
},
"sessions-per-client" : "Integer",
"created-by-user-name" : "String",
"last-modified-by-user-name" : "String",
"uri" : "String"
}
}

```

## 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>
</utm-policy>
```

## Get UTM Policy by ID

This request is used to list the UTM policy information by ID.

URI	/api/juniper/sd/utm-management/utm-policies/{id}
HTTP method	GET
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"
}
}
```

### 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>
</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" : { },
        "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>
    </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>

```

## 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
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"
  }
}
```

```
}
}
```

## 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>
</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"
  },
  "sessions-per-client" : "Integer",
  "created-by-user-name" : "String",
  "last-modified-by-user-name" : "String",
  "uri" : "String"
}
}

```

## 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>
</utm-policy>
```

## 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
----------------	-----------

---

## CHAPTER 32

# VPN Profile Management RESTful Web Services

The following operations can be performed using Securty 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",
```

```

"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" ],
"enable-anti-replay" : "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-fragment-enabled" : "boolean",
  "ike-fragment-size" : "int",
  "auth-method" : [ "Preshared Key", "RSA Signature", "DSA Signature", "EC-DSA-Signature (256)", "EC-
DSA-Signature (384)" ],
  "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",
  "username" : "String"
},
"edit-version" : "Integer",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"description" : "String",
"id" : "Integer"
}
}

```

## 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>
      <id>int</id>
    </phase2-proposal>
  </custom-phase2-proposals>
  <idle-time>Long</idle-time>
  <install-time>Integer</install-time>
  <dffit>None</dffit>
  <dffit>Clear</dffit>
  <dffit>Set</dffit>
  <dffit>Copy</dffit>
</vpn-profile>
```

```

<enable-anti-replay>Boolean</enable-anti-replay>
<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-fragment-enabled>boolean</ike-fragment-enabled>
  <ike-fragment-size>int</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>
  <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>
    </phase1-proposal>
  </custom-phase1-proposals>

```

```

    <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>
<username>String</username>
</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>
</vpn-profile>

```

## 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" ],
"enable-anti-replay" : "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-fragment-enabled" : "boolean",
    "ike-fragment-size" : "int",
    "auth-method" : [ "Preshared Key", "RSA Signature", "DSA Signature", "EC-DSA-Signature (256)", "EC-
DSA-Signature (384)" ],
    "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",
    "username" : "String",
    "uri" : "String"
},
"edit-version" : "Integer",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"description" : "String",
"domain-id" : "Integer",

```

```
"id" : "Integer",
"uri" : "String",
"link" : "String",
"domain-name" : "String"
}
}
```

## 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>
    </phase2-proposal>
  </custom-phase2-proposals>
</phase2-setting>
</vpn-profile>
```



```

    <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>
<enable-anti-replay>Boolean</enable-anti-replay>
<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-fragment-enabled>boolean</ike-fragment-enabled>
  <ike-fragment-size>int</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>
  <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>
<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>
<username>String</username>
<uri>String</uri>
</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>
</vpn-profile>

```

## Get VPN Profile by ID

This request is used to get a VPN profile by its ID.

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" ],
  "enable-anti-replay" : "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-fragment-enabled" : "boolean",
  "ike-fragment-size" : "int",
  "auth-method" : [ "Preshared Key", "RSA Signature", "DSA Signature", "EC-DSA-Signature (256)", "EC-
DSA-Signature (384)" ],
  "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",
  "username" : "String",
  "uri" : "String"
},
"edit-version" : "Integer",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"description" : "String",
"domain-id" : "Integer",
"id" : "Integer",
"uri" : "String",
"link" : "String",

```

```
"domain-name" : "String"
}
}
```

## 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>
    </phase2-proposal>
  </custom-phase2-proposals>
</phase2-setting>
</vpn-profile>
```

```

    <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>
<enable-anti-replay>Boolean</enable-anti-replay>
<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-fragment-enabled>boolean</ike-fragment-enabled>
  <ike-fragment-size>int</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>
  <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>
<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>
<username>String</username>
<uri>String</uri>
</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>
</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",
      "domain-name": "String",
      "created-by-user-name": "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>
  </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
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(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" ],
    "enable-anti-replay" : "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-fragment-enabled" : "boolean",
    "ike-fragment-size" : "int",
    "auth-method" : [ "Preshared Key", "RSA Signature", "DSA Signature", "EC-DSA-Signature (256)", "EC-
DSA-Signature (384)" ],
    "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",
    "username" : "String"
},
"edit-version" : "Integer",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"description" : "String",
"id" : "Integer"
}
}
}

```

## 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>
    </phase2-proposal>
  </custom-phase2-proposals>
</phase2-setting>
</vpn-profile>

```

```

<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>
<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>
<enable-anti-replay>Boolean</enable-anti-replay>
<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-fragment-enabled>boolean</ike-fragment-enabled>
<ike-fragment-size>int</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>
<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>
    <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>

```

```

    <username>String</username>
  </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>
</vpn-profile>

```

## 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" ],
      "enable-anti-replay" : "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-fragment-enabled" : "boolean",
      "ike-fragment-size" : "int",

```

```

    "auth-method" : [ "Preshared Key", "RSA Signature", "DSA Signature", "EC-DSA-Signature (256)", "EC-
DSA-Signature (384)" ],
    "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",
    "username" : "String",
    "uri" : "String"
},
"edit-version" : "Integer",
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"description" : "String",
"domain-id" : "Integer",
"id" : "Integer",
"uri" : "String",
"link" : "String",
"domain-name" : "String"
}
}

```

## 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-setting>

```

```

<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>
    <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>
</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>
<enable-anti-replay>Boolean</enable-anti-replay>
<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-fragment-enabled>boolean</ike-fragment-enabled>
  <ike-fragment-size>int</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>
  <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>
      <encryption-algorithm>AES-GCM(192)</encryption-algorithm>
      <encryption-algorithm>AES-GCM(256)</encryption-algorithm>
      <encryption-algorithm>None</encryption-algorithm>
    </phase1-proposal>
  </custom-phase1-proposals>

```

```

    <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>
<username>String</username>
<uri>String</uri>
</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>
</vpn-profile>

```

## CHAPTER 33

# Variable Definition Management RESTful Web Services

The following operations can be performed using Security 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", "UTM_DEVICE_PROFILE", "UTM_POLICY", "POLICY_PROFILE",
```

```
"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" ],
  "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>
  <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>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>
<variable-values-list>
  <variable-values>
    <id>int</id>
    <device>
      <moid>String</moid>
      <name>String</name>
      <uri>String</uri>
      <link>String</link>
    </device>
  </variable-values>
  <variable-value-detail>
    <variable-value>String</variable-value>
    <name>String</name>
    <uri>String</uri>
    <link>String</link>
  </variable-value-detail>
</variable-values-list>

```

```

        </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
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

## 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", "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" ],
    "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" ],
    "edit-version" : "Integer",
    "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>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>
<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", "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" ],
    "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",
    }
  }
}
```

```

    },
    "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>
  <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>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>
<variable-values-list>
  <variable-values>
    <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>

```

## Modify Variable Definition

This request is used to modify a variable definition.

URI	/api/juniper/sd/variable-management/variable-definitions/{id}
HTTP method	PUT
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", "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" ],
    "variable-values-list" : {
      "variable-values" : [ {
        "id" : "int",
        "device" : {
          "moid" : "String",
          "name" : "String"
        }
      } ],
      "variable-value-detail" : {
```

```

        "name" : "String"
    }
} ]
},
"default-value-detail" : {
    "default-value" : "String",
    "default-name" : "String"
},
"variableObjRef" : {
    "default-value" : "String",
    "default-name" : "String"
},
"definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"edit-version" : "Integer",
"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>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>
<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", "UTM_DEVICE_PROFILE", "UTM_POLICY", "POLICY_PROFILE",
"VPNPROFILE_TYPE", "SD_PROVISIONING_RESULT", "DYNAMIC_ADDRESS",
"CHANGE_REQUEST", "APP_FW_POLICY", "CHANGE_REQUEST_DEPLOYED", "THREAT_POLICY",

```

```
"CONDITION", "ENVIRONMENT_VARIABLE", "METADATA", "METADATAEXPRESSION",
"METADATA_PROVIDER", "GLOBAL", "UTM_DEFAULT_CONFIGURATION", "GLOBALIDP" ],
  "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>
  <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>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>
<variable-values-list>
  <variable-values>
    <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>
</variable-values-list>

```



```

    </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
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", "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" ],
      "default-value" : "String",
      "global" : "String",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "uri" : "String",
      "link" : "String"
    } ],
    "uri" : "String",
  }
}
```

```
}  
}
```

## 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>  
    <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>
<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>
```

## CHAPTER 34

# Variable Management RESTful Web Services

The following operations can be performed using Security Director Variable Management RESTful Web Services

## Get All Variables

This request is used to list all variables.

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" : [ {
      "name" : "String",
      "default-value" : "String",
      "global" : "String",
      "type" : [ "STRING", "IPSTRING", "ADDRESS", "ZONE" ],
      "description" : "String",
      "domain-name" : "String",
      "domain-id" : "Integer",
      "id" : "Integer",
      "uri" : "String",
      "link" : "String"
    } ],
  }
```

```
"uri" : "String",
"totalSize" : "int"
}
```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<variable-definitions>
  <variable-definition>
    <name>String</name>
    <default-value>String</default-value>
    <global>String</global>
    <type>STRING</type>
    <type>IPSTRING</type>
    <type>ADDRESS</type>
    <type>ZONE</type>
    <description>String</description>
    <domain-name>String</domain-name>
    <domain-id>Integer</domain-id>
    <id>Integer</id>
    <uri>String</uri>
    <link>String</link>
  </variable-definition>
  <uri>String</uri>
  <totalSize>int</totalSize>
</variable-definitions>
```

## Delete Variable

This request is used to delete a variable.

URI	/api/juniper/sd/variable-management/variable-definitions/{id}
HTTP method	DELETE
Content-Type	None
Accept-Type	None
Access-Control	deleteVariable

## Create Variable

This request is used to create a new variable.

URI	/api/juniper/sd/variable-management/variable-definitions
HTTP method	POST
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" : {
    "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"
    },
    "name" : "String",
    "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
    "type" : [ "STRING", "IPSTRING", "ADDRESS", "ZONE" ],
    "edit-version" : "Integer",
    "description" : "String",
    "default-name" : "String",
    "address-id" : "Integer",
    "id" : "Integer"
  }
}
```

}

## Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<variable-definition>
  <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-value-detail>
  <name>String</name>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <type>STRING</type>
  <type>IPSTRING</type>
  <type>ADDRESS</type>
  <type>ZONE</type>
  <edit-version>Integer</edit-version>
  <description>String</description>
  <default-name>String</default-name>
  <address-id>Integer</address-id>
  <id>Integer</id>
</variable-definition>
```

## Sample JSON Output:

```
{
  "variable-definition" : {
    "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",
    "uri" : "String",
    "link" : "String"
  },
  "name" : "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" ],
  "type" : [ "STRING", "IPSTRING", "ADDRESS", "ZONE" ],
  "edit-version" : "Integer",
  "description" : "String",
  "domain-name" : "String",
  "domain-id" : "Integer",
  "default-name" : "String",
  "address-id" : "Integer",
  "id" : "Integer",
  "uri" : "String",
  "link" : "String"
}
}

```

#### Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<variable-definition>
  <variable-values-list>
    <variable-values>
      <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>
  </variable-values-list>
  <default-value-detail>
    <default-value>String</default-value>
    <uri>String</uri>
    <link>String</link>
  </default-value-detail>
  <name>String</name>
  <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>
  <type>STRING</type>

```

```
<type>IPSTRING</type>
<type>ADDRESS</type>
<type>ZONE</type>
<edit-version>Integer</edit-version>
<description>String</description>
<domain-name>String</domain-name>
<domain-id>Integer</domain-id>
<default-name>String</default-name>
<address-id>Integer</address-id>
<id>Integer</id>
<uri>String</uri>
<link>String</link>
</variable-definition>
```

## Modify Variable

This request is used to modify an existing variable.

URI	/api/juniper/sd/variable-management/variable-definitions/{id}
HTTP method	PUT
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" : {
    "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"
  },
  "name" : "String",
  "definition-type" : [ "Hidden", "Predefined", "Custom", "All" ],
  "type" : [ "STRING", "IPSTRING", "ADDRESS", "ZONE" ],
  "edit-version" : "Integer",
  "description" : "String",
  "default-name" : "String",
  "address-id" : "Integer",
  "id" : "Integer"
}
}

```

## Sample XML Input

```

<?xml version="1.0" encoding="UTF-8"?>
<variable-definition>
  <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-value-detail>
  <name>String</name>
  <definition-type>Hidden</definition-type>
  <definition-type>Predefined</definition-type>
  <definition-type>Custom</definition-type>
  <definition-type>All</definition-type>
  <type>STRING</type>
  <type>IPSTRING</type>
  <type>ADDRESS</type>
  <type>ZONE</type>
  <edit-version>Integer</edit-version>
  <description>String</description>
  <default-name>String</default-name>
  <address-id>Integer</address-id>
  <id>Integer</id>
</variable-definition>

```

## Sample JSON Output:

```

{
  "variable-definition" : {
    "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",
  "uri" : "String",
  "link" : "String"
},
"name" : "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" ],
"type" : [ "STRING", "IPSTRING", "ADDRESS", "ZONE" ],
"edit-version" : "Integer",
"description" : "String",
"domain-name" : "String",
"domain-id" : "Integer",
"default-name" : "String",
"address-id" : "Integer",
"id" : "Integer",
"uri" : "String",
"link" : "String"
}
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<variable-definition>
  <variable-values-list>
    <variable-values>
      <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>
    </variable-values>
    <uri>String</uri>
  </variable-values-list>
  <default-value-detail>
    <default-value>String</default-value>
    <uri>String</uri>
    <link>String</link>
  </default-value-detail>
  <name>String</name>
  <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>
<type>STRING</type>
<type>IPSTRING</type>
<type>ADDRESS</type>
<type>ZONE</type>
<edit-version>Integer</edit-version>
<description>String</description>
<domain-name>String</domain-name>
<domain-id>Integer</domain-id>
<default-name>String</default-name>
<address-id>Integer</address-id>
<id>Integer</id>
<uri>String</uri>
<link>String</link>
</variable-definition>
```

## Get Variable By ID

This request is used to list the Variable information by 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" : {
    "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",
    "uri" : "String",
    "link" : "String"
  },
  "name" : "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" ],
  "type" : [ "STRING", "IPSTRING", "ADDRESS", "ZONE" ],
  "edit-version" : "Integer",
  "description" : "String",
  "domain-name" : "String",
  "domain-id" : "Integer",
  "default-name" : "String",
  "address-id" : "Integer",
  "id" : "Integer",
  "uri" : "String",
  "link" : "String"
}
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<variable-definition>
  <variable-values-list>
    <variable-values>
      <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>
    </variable-values>
    <uri>String</uri>
  </variable-values-list>
  <default-value-detail>
    <default-value>String</default-value>
    <uri>String</uri>
    <link>String</link>
  </default-value-detail>

```

```
<name>String</name>
<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>
<type>STRING</type>
<type>IPSTRING</type>
<type>ADDRESS</type>
<type>ZONE</type>
<edit-version>Integer</edit-version>
<description>String</description>
<domain-name>String</domain-name>
<domain-id>Integer</domain-id>
<default-name>String</default-name>
<address-id>Integer</address-id>
<id>Integer</id>
<uri>String</uri>
<link>String</link>
</variable-definition>
```

## CHAPTER 35

# Web Filtering Profile Management RESTful Web Services

The following operations can be performed using Security 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",
  }
}
```



```

"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" ],
"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>
    </url-category-action>
  </url-category-action-list>

```

```

    <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>
<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>WEBSSENSE</profile-type>
<profile-type>SURF_CONTROL</profile-type>
<profile-type>LOCAL</profile-type>
<profile-type>JUNIPER_ENHANCED</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" ],
  "sockets" : "Integer",
}
```

```

"fallback-default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
"profile-type" : [ "WEBSense", "SURF_CONTROL", "LOCAL", "JUNIPER_ENHANCED" ],
"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>
      <suspicious>QUARANTINE</suspicious>
      <suspicious>NONE</suspicious>
    </reputation-action>
  </url-category-action>
</url-category-action-list>
</web-filtering-profile>

```

```

    <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>
<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" ],
    "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" ],
"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>
    <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>
<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

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>
    <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>
</web-filtering-profiles>
```

```
<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
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" ],
  "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>
    </url-category-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>
  </url-category-action-list>
  <redirect-profile/>
  <url-category-list/>
  <redirectProfileDetail>String</redirectProfileDetail>
</web-filtering-profile>
```

```

</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>WEBSSENSE</profile-type>
<profile-type>SURF_CONTROL</profile-type>
<profile-type>LOCAL</profile-type>
<profile-type>JUNIPER_ENHANCED</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" ],
"sockets" : "Integer",
"fallback-default-action" : [ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ],
"profile-type" : [ "WEBSense", "SURF_CONTROL", "LOCAL", "JUNIPER_ENHANCED" ],
"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>
        <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>
  </url-category-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>
<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>

```

## 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" : {
    "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" ]
        }
      } ],
      "url-category-list" : { }
    }
  },
  "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" ],
"account" : "String",
"server" : "String",
"timeout" : "Integer"
}
}
```

## Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<web-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>
  <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>
  </url-category-list>
</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>
<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>
<account>String</account>
<server>String</server>
<timeout>Integer</timeout>
</web-filtering-profile>

```

Sample JSON Output:

```

{
  "web-filtering-profile" : {
    "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"
},
"url-category-list" : { },
"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" ],
"account" : "String",
"server" : "String",
"timeout" : "Integer",
"created-by-user-name" : "String",
"last-modified-by-user-name" : "String",
"uri" : "String"
}
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<web-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>
  <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>
    </url-category-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>
    </reputation-action>
  </url-category-action-list>
</web-filtering-profile>

```

```

    <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>
  <url-category-list>
    <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>
<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>
</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" : {
    "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"
  },
  "url-category-list" : { },
  "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" ],
"account" : "String",
"server" : "String",
"timeout" : "Integer",
"created-by-user-name" : "String",
"last-modified-by-user-name" : "String",
"uri" : "String"
}
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<web-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>
  <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>
    </url-category-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>
    </reputation-action>
  </url-category-action-list>
</web-filtering-profile>

```



```

    <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>
  <url-category-list>
    <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>
<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>
</web-filtering-profile>
```

## Get All Web Filtering Profiles

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>
    <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>
```

## 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
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" : {
    "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" ]
        }
      } ],
      "url-category-list" : { }
    }
  },
  "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" ],
  "account" : "String",
  "server" : "String",
  "timeout" : "Integer"
}
```

## Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<web-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>
<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>
</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>
  <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>
  <account>String</account>
  <server>String</server>
  <timeout>Integer</timeout>
</web-filtering-profile>

```

Sample JSON Output:

```

{
  "web-filtering-profile" : {
    "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"
        }
      },
      "url-category-list" : { },
      "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" ],
"account" : "String",
"server" : "String",
"timeout" : "Integer",
"created-by-user-name" : "String",
"last-modified-by-user-name" : "String",
"uri" : "String"
}
}
```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<web-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>
  <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>
    </url-category-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>
  </url-category-action-list>
</web-filtering-profile>
```

```

    <url-category-list/>
    <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>
<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>
</web-filtering-profile>

```

## 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
----------------	--------------------

---

## CHAPTER 36

# Zone Set Management RESTful Web Services

The following operations can be performed using Security 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"
  }
}
```

## 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}

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

This request is used to list 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>
```

```

<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

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>
```

```
<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>
```

## 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"
  }
}
```



## 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}

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

This request is used to list 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>
  </zone-set>
</zone-sets>
```

```
<name>String</name>
<link>String</link>
<uri>String</uri>
<global>String</global>
</zone-set>
<uri>String</uri>
<totalSize>Integer</totalSize>
</zone-sets>
```

## 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
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>
  <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>
```

## 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
----------------	---------------

---

## PART 3

# Security Director Logging and Reporting

## CHAPTER 37

### Event Management RESTful Web Services

The following operations can be performed using Security Director Event Management RESTful Web Services

#### Get Aggregated Logs

This request is used to fetch 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",
  }
}
```

```

"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",
"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>
  <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 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": {
      "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",
  "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>
  <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 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: {}

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" ]
      }
    }
  },
  "sort": "String",
  "include-fields": [ "String" ],
  "exclude-fields": [ "String" ],
  "resolve-addresses": "boolean",
  "resolve-event-name": "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>
<aggregation-fields>String</aggregation-fields>
<job-id>String</job-id>
<all-domains>boolean</all-domains>
</request>
```

Sample JSON Output:

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

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

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",
    "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>
  <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
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",
    "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>
  <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
Accept-Type	application/json application/xml
Access-Control	ViewDeviceLogs, ViewDeviceEvents

---

Sample JSON Output:    { }

Sample XML Output:    <?xml version="1.0" encoding="UTF-8"?>

## CHAPTER 38

# Report Management RESTful Web Services

The following operations can be performed using Security Director Report Management RESTful Web Services

## 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"
  },
  "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",
"id" : "String",
"domain-id" : "Integer",
"name" : "String",
"scheduler" : {
    "start-time" : "Long",
    "schedule-type" : [ "Minutes", "Hourly", "Daily", "Weekly", "Monthly", "Yearly", "Now", "Once" ],
    "re-occurrence" : "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>
  <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>
</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-occurrence>Integer</re-occurrence>
    <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

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",
  "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-occurrence" : "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"
}
}

```

## 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>GROUPEGRID</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>
  </report-template>
</report-templates>
```

```

    <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-occurrence>Integer</re-occurrence>
  <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>

```

## 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": [ ],
```

```

        "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-occurrence" : "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"
}
}

```

## 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>
  </report-template>
  <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>
    </section>
  </sections>
</report-templates>
```

```

    <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-occurrence>Integer</re-occurrence>
  <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>

```

## 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",

```

```

    "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-occurrence" : "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>
    <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>
  <schedule-type>Yearly</schedule-type>
  <schedule-type>Now</schedule-type>
  <schedule-type>Once</schedule-type>
  <re-occurrence>Integer</re-occurrence>
  <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" ]
      },
      "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-occurrence" : "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>
    <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>
</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-occurrence>Integer</re-occurrence>
  <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>

```

## 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

## 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",

```

```

        "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-occurrence" : "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>

```

```

<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>

```

```

<schedule-type>Yearly</schedule-type>
<schedule-type>Now</schedule-type>
<schedule-type>Once</schedule-type>
<re-occurrence>Integer</re-occurrence>
<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" ]
      }
    }
  }
}

```

```

    },
    "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-occurrence" : "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>
    <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>
  </bandwidth-template-content>

```

```

<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>

```



```

<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-occurrence>Integer</re-occurrence>
<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

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
-------------	---

## 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",
  "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-occurrence" : "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>
  </policy-analysis-content>

```

```

    <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>

```

```

<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-occurrence>Integer</re-occurrence>
<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>

```

## CHAPTER 39

### Application Statistics RESTful Web Services

The following operations can be performed using Security Director Application Statistics RESTful Web Services

#### Get Detailed Application Statistics grouped by, category, risk level and session count.

This request is used to get the detailed information about application usage grouped by category of application, risk level of application and the session count of application.

URI	/api/juniper/appvisibility/application-statistics/{groupby}/{viewby}?startTime=long&endTime=long&start=int&limit=int&devices=String&dstIntf=String
HTTP method	GET
Content-Type	None
Accept-Type	application/json
Access-Control	null

Sample JSON Output:

```
{
  "response": {
    "serialVersionUID": "long",
    "result": [ {
      "serialVersionUID": "long",
      "name": "String",
      "value": "Long",
      "users": { }
    } ],
    "start-time": "long",
    "end-time": "long",
    "error-code": "String",
    "error-message": "String",
    "riskLevel": "String"
  }
}
```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<response>
  <serialVersionUID>long</serialVersionUID>
  <result>
    <serialVersionUID>long</serialVersionUID>
    <name>String</name>
    <value>Long</value>
    <users/>
  </result>
  <start-time>long</start-time>
  <end-time>long</end-time>
  <error-code>String</error-code>
  <error-message>String</error-message>
  <riskLevel>String</riskLevel>
</response>
```

## Get Detailed User Statistics

This request is used to get the details of bandwidth 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
Access-Control	null

## Sample JSON Output:

```
{
  "response": {
    "serialVersionUID": "long",
    "result": [ {
      "name": "String",
      "value": "Long",
      "applications": [ {
        "category": "String",
        "sub-category": "String",
        "characteristics": [ "String" ],
        "destinationInterface": "String",
        "risk-level": "String",
        "name": "String",
        "value": "Long",
        "users": [ ],

```



```

        "session-count" : "Long",
        "volume" : "Long",
        "number-of-blocks" : "Long",
        "app-id" : "String",
        "name-type" : "String",
        "time" : "long"
    } ],
    "session-count" : "Long",
    "volume" : "Long",
    "number-of-blocks" : "long",
    "name-type" : "String"
} ],
"volume" : "Long",
"session-count" : "Long",
"name" : "String",
"total-records" : "int",
"applications" : "String"
}
}

```

### Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<response>
  <serialVersionUID>long</serialVersionUID>
  <result>
    <name>String</name>
    <value>Long</value>
    <applications>
      <category>String</category>
      <sub-category>String</sub-category>
      <characteristics>String</characteristics>
      <destinationInterface>String</destinationInterface>
      <risk-level>String</risk-level>
      <name>String</name>
      <value>Long</value>
      <session-count>Long</session-count>
      <volume>Long</volume>
      <number-of-blocks>Long</number-of-blocks>
      <app-id>String</app-id>
      <name-type>String</name-type>
      <time>long</time>
    </applications>
    <session-count>Long</session-count>
    <volume>Long</volume>
    <number-of-blocks>long</number-of-blocks>
    <name-type>String</name-type>
  </result>
  <volume>Long</volume>
  <session-count>Long</session-count>
  <name>String</name>
  <total-records>int</total-records>
  <applications>String</applications>
</response>

```

## Get All Application Usage Statistics

This request is used to get bandwidth used per application, as detected by SRX using application tracking feature.

URI	/api/juniper/appvisibility/application-statistics/?startTime=long&endTime=long&_search=String&deviceId=String
HTTP method	GET
Content-Type	None
Accept-Type	application/json
Access-Control	null

Sample JSON Output:

```
{
  "response": {
    "serialVersionUID": "long",
    "result": [ {
      "category": "String",
      "sub-category": "String",
      "characteristics": [ "String" ],
      "destinationInterface": "String",
      "risk-level": "String",
      "name": "String",
      "value": "Long",
      "users": [ {
        "name": "String",
        "value": "Long",
        "applications": [ ],
        "session-count": "Long",
        "volume": "Long",
        "number-of-blocks": "long",
        "name-type": "String"
      } ],
      "session-count": "Long",
      "volume": "Long",
      "number-of-blocks": "Long",
      "app-id": "String",
      "name-type": "String",
      "time": "long"
    } ],
    "volume": "Long",
    "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"
  }
}
```

```
}  
}
```

### 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>  
    <destinationInterface>String</destinationInterface>  
    <risk-level>String</risk-level>  
    <name>String</name>  
    <value>Long</value>  
    <users>  
      <name>String</name>  
      <value>Long</value>  
      <session-count>Long</session-count>  
      <volume>Long</volume>  
      <number-of-blocks>long</number-of-blocks>  
      <name-type>String</name-type>  
    </users>  
    <session-count>Long</session-count>  
    <volume>Long</volume>  
    <number-of-blocks>Long</number-of-blocks>  
    <app-id>String</app-id>  
    <name-type>String</name-type>  
    <time>long</time>  
  </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>  
</response>
```

## Get Detailed Source IP based Statistics

This request is used to get the details of bandwidth 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
Access-Control	null

Sample JSON Output:

```
{
  "response": {
    "serialVersionUID": "long",
    "result": [ {
      "name": "String",
      "value": "Long",
      "applications": [ {
        "category": "String",
        "sub-category": "String",
        "characteristics": [ "String" ],
        "destinationInterface": "String",
        "risk-level": "String",
        "name": "String",
        "value": "Long",
        "users": [ ],
        "session-count": "Long",
        "volume": "Long",
        "number-of-blocks": "Long",
        "app-id": "String",
        "name-type": "String",
        "time": "long"
      } ],
      "session-count": "Long",
      "volume": "Long",
      "number-of-blocks": "long",
      "name-type": "String"
    } ],
    "volume": "Long",
    "session-count": "Long",
    "name": "String",
    "total-records": "int",
    "applications": "String"
  }
}
```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<response>
  <serialVersionUID>long</serialVersionUID>
  <result>
    <name>String</name>
    <value>Long</value>
    <applications>
      <category>String</category>
      <sub-category>String</sub-category>
      <characteristics>String</characteristics>
      <destinationInterface>String</destinationInterface>
      <risk-level>String</risk-level>
      <name>String</name>
      <value>Long</value>
      <session-count>Long</session-count>
      <volume>Long</volume>
      <number-of-blocks>Long</number-of-blocks>
      <app-id>String</app-id>
      <name-type>String</name-type>
      <time>long</time>
    </applications>
    <session-count>Long</session-count>
    <volume>Long</volume>
    <number-of-blocks>long</number-of-blocks>
    <name-type>String</name-type>
  </result>
  <volume>Long</volume>
  <session-count>Long</session-count>
  <name>String</name>
  <total-records>int</total-records>
  <applications>String</applications>
</response>
```

## 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"
      } ]
    } ]
  }
}
```

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>
```

## 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
Access-Control	null

Sample JSON Output:

```
{
  "response": {
    "serialVersionUID": "long",
    "result": [ {
      "category": "String",
      "sub-category": "String",
      "characteristics": [ "String" ],
      "destinationInterface": "String",
      "risk-level": "String",
      "name": "String",
      "value": "Long",
      "users": [ {
        "name": "String",
        "value": "Long",
        "applications": [ ],
        "session-count": "Long",
        "volume": "Long",
        "number-of-blocks": "long",
        "name-type": "String"
      } ],
      "session-count": "Long",
      "volume": "Long",
      "number-of-blocks": "Long",
      "app-id": "String",
      "name-type": "String",
      "time": "long"
    } ],
    "volume": "Long",
    "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"
  }
}
```

```
}
}
```

## 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>
    <destinationInterface>String</destinationInterface>
    <risk-level>String</risk-level>
    <name>String</name>
    <value>Long</value>
    <users>
      <name>String</name>
      <value>Long</value>
      <session-count>Long</session-count>
      <volume>Long</volume>
      <number-of-blocks>long</number-of-blocks>
      <name-type>String</name-type>
    </users>
    <session-count>Long</session-count>
    <volume>Long</volume>
    <number-of-blocks>Long</number-of-blocks>
    <app-id>String</app-id>
    <name-type>String</name-type>
    <time>long</time>
  </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>
</response>
```



PART 5

## Security Device Management

CHAPTER 40

### Device Management RESTful Web Services

The following operations can be performed using Security Director Device Management RESTful Web Services

#### 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

## 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" ],
    "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",
    "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>
    <name>String</name>
  </device>
</devices>

```

```

<display-name>String</display-name>
<device-type>LSYS</device-type>
<device-type>ROOT</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>
<root-device-name>String</root-device-name>
<lsys-count>Integer</lsys-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
Access-Control	UpdateDevice

Sample JSON Input

```
{
  "update-devices" : {
    "sd-ids" : {
      "id" : [ "Integer" ]
    },
    "service-types" : {
      "service-type" : [ "POLICY", "IPSPOLICY", "NAT", "VPN", "APBR", "JIMS", "GLOBAL", "GLOBALIDP" ]
    },
    "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-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"
  }
}
```

## Sample XML Output:

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

## 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
----------------	---------------

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" ],
        "uri" : "String"
      },
      "matching-schema" : "String",
      "device-ip" : "String",
      "id" : "Integer",
      "moid" : "String",
      "software-release" : "String",
      "domain-id" : "Integer",
      "name" : "String",
      "device-type" : [ "LSYS", "ROOT" ],
      "installed-services" : {
        "installed-service" : [ {
          "name" : "String",
          "service-type" : "String",
          "version" : "Integer",
          "uri" : "String"
        } ],
        "totalSize" : "Integer"
      },
      "device-id" : "Integer",
    } ]
  }
}
```

```

    "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" : "Integer",
    "storage" : "Integer",
    "root-device-id" : "Integer",
    "root-device-name" : "String",
    "lsys-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>
    <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>
  <device-type>LSYS</device-type>
  <device-type>ROOT</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>Integer</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>Integer</cluster-id>
<storage>Integer</storage>
<root-device-id>Integer</root-device-id>
<root-device-name>String</root-device-name>
<lsys-count>Integer</lsys-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
Access-Control	UpdateDevice

### Sample JSON Input

```
{
  "update-devices" : {
    "sd-ids" : {
      "id" : [ "Integer" ]
    },
    "service-types" : {
      "service-type" : [ "POLICY", "IPSPOLICY", "NAT", "VPN" ]
    },
    "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-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" : "Integer"
  }
}
```

### Sample XML Output:

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

## Examples

- [Pagination](#)
- [Sorting](#)
- [Filtering](#)

### Pagination

---

By using the default GET All option, you can retrieve a maximum of 1000 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)

## 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))`

## 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')