

## Junos® Space

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

Release

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## Table of Contents

	About the Documentation	1
	Documentation and Release Notes	1
	Documentation Feedback	2
	Requesting Technical Support	3
Part 1	Security Director Services	4
Chapter 1	Firewall Policy Management RESTful Web Services	4
	Get All Firewall Policies	4
	Get Firewall Policy By ID	6
	Get Firewall Rule By ID	8
	Get Firewall Rules for Policy	16
	Get Firewall Rules For a Rule Group	17
	Assign Devices to the Firewall Policy	19
	Create Firewall Policy	20
	Publish Firewall Policy	22
	Add a New Rule to Firewall Policy	25
	Modify Firewall Policy	39
	Modify Firewall Rule	41
	Delete Firewall Rule	55
Chapter 2	NAT Policy Management RESTful Web Services	57
	Get NAT Rule By ID	57
	Get NAT Rules For a Rule Group	65
	Get NAT Rules for Policy	67
	Get All NAT Policies	68
	Get NAT Policy By ID	70
	Add a New Rule to NAT Policy	72
	Publish NAT Policy	87
	Assign Devices to the NAT Policy	89
	Create NAT Policy	90
	Modify NAT Rule	93
	Modify NAT Policy	108
	Delete NAT Rules	110

Chapter 3	IPS Policy Management RESTful Web Services	111
	Get All IPS Policies	111
	Get IPS Policy By ID	113
	Get IPS Rule By ID	115
	Get IPS Rules For a Rule Group	119
	Get IPS Rules for Policy	121
	Publish IPS Policy	122
	Assign Devices to the IPS Policy	125
	Create IPS Policy	126
	Add a New Rule to IPS Policy	129
	Modify IPS Policy	137
	Modify IPS Rule	140
	Delete IPS Policy	148
	Delete IPS Rule	148
Chapter 4	VPN Management RESTful Web Services	150
	Get All Tunnels Of VPN	150
	Get All VPNs	152
	Get VPN	155
	Get All Devices Of VPN	158
	Publish VPN	160
	Create VPN	163
	Modify VPN	166
	Modify Tunnels Of VPN	171
	Delete VPN	173
Part 2	Security Director Objects	175
Chapter 5	Access Profile Management RESTful Web Services	175
	Get Access Profile By ID	175
	Get All Access Profiles	177
	Create Access Profile	180
	Modify Access Profile	184
	Delete Access Profile By ID	188
Chapter 6	Active Directory Management RESTful Web Services	190
	Get Active Directory By ID	190
	Get All Active Directories	194

	Create Active Directory	198
	Modify Active Directory	205
	Delete Active Directory	212
Chapter 7	Address Management RESTful Web Services	214
	Get All Addresses	214
	Get Address by ID	215
	Create Address	218
	Modify Address	222
	Delete Address	226
Chapter 8	Antispam Profile Management RESTful Web Services	227
	Get Antispam Profile by ID	227
	Get All Antispam Profiles	228
	Create Antispam Profile	229
	Modify Antispam Profile	231
	Delete Antispam Profile	233
Chapter 9	Antivirus Profile Management RESTful Web Services	235
	Get Antivirus Profile by ID	235
	Get All Antivirus Profiles	238
	Create Antivirus Profile	239
	Modify Antivirus Profile	244
	Delete Antivirus Profile	250
Chapter 10	Application Firewall Management RESTful Web Services	251
	Get Application Firewall Policy By ID	251
	Get All Application Firewall Policies	252
	Create Application Firewall Policy	253
	Modify Application Firewall Policy	255
	Delete Application Firewall Policy	257
Chapter 11	Application Signature Management RESTful Web Services	259
	Get Application Signature By ID	259
	Get All Application Signatures	265
	Create Application Signature	266
	Modify Application Signature	277
	Delete Application Signature	287
Chapter 12	Content Filtering Profile Management RESTful Web Services	288

	Get Content Filtering Profile by ID	288
	Get All Content Filtering Profiles	290
	Create Content Filtering Profile	292
	Modify Content Filtering Profile	295
	Delete Content Filtering Profile	299
Chapter 13	Extranet Device Management RESTful Web Services	300
	Get Extranet Device by ID	300
	Get All Extranet Devices	301
	Create Extranet Device	302
	Modify Extranet Device	304
	Delete Extranet Device	306
Chapter 14	IPS Signature Management RESTful Web Services	307
	Get IPS Signature By ID	307
	Get All IPS Signatures	316
	Create IPS Signature	318
	Modify IPS Signature	334
	Delete IPS Signature	351
Chapter 15	NAT Pool Management RESTful Web Services	352
	Get All NAT Pools	352
	Get NAT Pool By ID	353
	Create NAT Pool	356
	Modify NAT Pool	360
	Delete NAT Pool	364
Chapter 16	NAT Port Set Management RESTful Web Services	365
	Get NAT Port Set By ID	365
	Get All NAT Port Sets	366
	Create NAT Port Set	367
	Modify NAT Port Set	368
	Delete Port Set	370
Chapter 17	Policy Profile Management RESTful Web Services	371
	Get All Policy Profiles	371
	Get Policy Profile by ID	372
	Create Policy Profile	374
	Modify Policy Profile	378

	Delete Policy Profile	382
Chapter 18	SSL Forward Proxy Profile Management RESTful Web Services	383
	Get SSL Forward Proxy Profile by ID	383
	Get All SSL Forward Proxy Profiles	386
	Create SSL Forward Proxy Profile	388
	Modify SSL Forward Proxy Profile	393
	Delete SSL Forward Proxy Profile	398
Chapter 19	Scheduler Management RESTful Web Services	399
	Get Firewall Policy Scheduler By ID	399
	Get All Firewall Policy Schedulers	401
	Create Firewall Policy Scheduler	402
	Modify Firewall Policy Scheduler	405
	Delete Firewall Policy Scheduler	407
Chapter 20	Service Management RESTful Web Services	409
	Get All Services	409
	Get Service By ID	410
	Create Service	413
	Modify Service	417
	Delete Service	421
Chapter 21	URL Category Management RESTful Web Services	422
	Get URL Category by ID	422
	Get All URL Categories	423
	Create URL Category	424
	Modify URL Category	426
	Delete URL Category	428
Chapter 22	URL Pattern Management RESTful Web Services	430
	Get URL Pattern by ID	430
	Get All URL Patterns	431
	Create URL Pattern	432
	Modify URL Pattern	434
	Delete URL Pattern	436
Chapter 23	UTM Device Profile Management RESTful Web Services	437
	Get UTM Device Profile by ID	437
	Get All UTM Device Profiles	440

	Create UTM Device Profile	441
	Modify UTM Device Profile	446
	Delete UTM Device Profile	450
Chapter 24	UTM Policy Management RESTful Web Services	452
	Get UTM Policy by ID	452
	Get All UTM Policies	454
	Create UTM Policy	456
	Modify UTM Policy	459
	Delete UTM Policy	462
Chapter 25	VPN Profile Management RESTful Web Services	463
	Get VPN Profile by ID	463
	Get VPN Profiles	468
	Create VPN Profile	469
	Modify VPN Profile	478
	Delete VPN Profile	487
Chapter 26	Variable Management RESTful Web Services	488
	Get Variable By ID	488
	Get All Variables	490
	Create Variable	491
	Modify Variable	495
	Delete Variable	498
Chapter 27	Web Filtering Profile Management RESTful Web Services	499
	Get Web Filtering Profile by ID	499
	Get All Web Filtering Profiles	502
	Create Web Filtering Profile	503
	Modify Web Filtering Profile	509
	Delete Web Filtering Profile	514
Chapter 28	Zone Set Management RESTful Web Services	516
	Get Zone Set By ID	516
	Get All Zone Sets	517
	Create Zone Set	518
	Modify Zone Set	520
	Delete Zone Set	521
Part 3	Security Director Logging and Reporting	523

---



Chapter 29	Event Management RESTful Web Services	523
	Get Raw Logs	523
	Download CSV	524
	Check LogCollector Status	524
	Get Aggregated Logs Based On Time	525
	Get CSV Name	527
	Get Logs from Stream	529
	Get Multi-Level Aggregated Logs	531
	Get Aggregated Logs	533
Chapter 30	Report Management RESTful Web Services	536
	Get All Reports	536
	Get Report By ID	539
	Create Report	544
	Run Report	552
	Modify Report	556
	Delete Report By ID	564
Chapter 31	Application Statistics RESTful Web Services	566
	Get Detailed User Statistics	566
	Get Detailed Source IP based Statistics	567
	Get Detailed Application Statistics grouped by, category, risk level and session count.	569
	Get All Application Usage Statistics	570
	Get Detailed Application Statistics for given application.	572
Part 4	Security Device Management	575
Chapter 32	Device Management RESTful Web Services	575
	Get All Devices	575
	Update Devices	579
Part 5	Examples	581
Chapter 33	Pagination	581
Chapter 34	Sorting	582
Chapter 35	Filtering	583

## About the Documentation

- Documentation and Release Notes
- Documentation Feedback
- Requesting Technical Support

### Documentation and Release Notes

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If the information in the latest release notes differs from the information in the documentation, follow the product Release Notes.

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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://kb>.
- 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/>

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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

#### 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": [ {
      "description": "String",
      "sequence-number": "Integer",
      "locked-for-edit": "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" ],
    "policy-state" : [ "DRAFT", "FINAL" ],
    "policy-order" : "Float",
    "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"
} ],
"uri" : "String",
"totalSize" : "Integer"
}
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<policies>
  <policy>
    <description>String</description>
    <sequence-number>Integer</sequence-number>
    <locked-for-edit>Boolean</locked-for-edit>
    <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>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <policy-order>Float</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>
</policy>
<uri>String</uri>
<totalSize>Integer</totalSize>
</policies>

```

## Get Firewall Policy By ID

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

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

HTTP method	GET
-------------	-----

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

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

Access-Control	managePolicies
----------------	----------------

### Sample JSON Output:

```
{
  "policy" : {
    "last-modified-time" : "Date",
    "edit-version" : "Integer",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "policy-state" : [ "DRAFT", "FINAL" ],
    "policy-order" : "Float",
    "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"
  }
}
```

### Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <last-modified-time>Date</last-modified-time>
  <edit-version>Integer</edit-version>
  <policy-type>GLOBAL</policy-type>
  <policy-type>GROUP</policy-type>
  <policy-type>DEVICE</policy-type>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <policy-order>Float</policy-order>
  <created-time>Date</created-time>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <description>String</description>
  <id>Integer</id>
  <created-by-user-name>String</created-by-user-name>
  <policy-position>DEVICE</policy-position>
  <policy-position>PRE</policy-position>
  <policy-position>POST</policy-position>
  <version>Integer</version>
  <uri>String</uri>
```



```
<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>
```

## 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"
  },
  "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" ],
      "service-offload" : "Boolean",
      "tcp-seq-check" : "Boolean",
      "pass-thru-auth-client-name" : "String",
      "web-auth-client-name" : "String",
      "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" : [ {
        "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" ],
        "uri" : "String"
      } ],
      "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",
"id" : "Integer",
"hit-count-details" : {
  "id" : "Integer",
  "level" : [ "Zero", "High", "Medium", "Low" ],
  "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"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL" ],
"threat-policy" : {
  "id" : "Integer",
  "name" : "String",
  "domain-id" : "Integer",
  "domain-name" : "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" ],
    "resolved" : "Boolean",
    "domain-id" : "Integer",
    "name" : "String",
    "domain-name" : "String",
    "variable-id" : "Integer",
    "default-value" : "String",
    "uri" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"name" : "String",
"source-zone" : {
  "zone" : [ {
    "id" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET" ],
    "resolved" : "Boolean",
    "domain-id" : "Integer",
    "name" : "String",
    "domain-name" : "String",
    "variable-id" : "Integer",
    "default-value" : "String",
    "uri" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"ssl-forward-proxy-profile" : {
  "id" : "Integer",
  "name" : "String",
  "domain-id" : "Integer",
  "domain-name" : "String",
  "uri" : "String"
},
"source-address" : {
  "exclude-list" : "Boolean",
  "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" ],
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "uri" : "String"
}

```

```
    },
    "uri" : "String"
  }
}
```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <app-fw-policy>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
  </app-fw-policy>
  <rule-group-type>CUSTOM</rule-group-type>
  <rule-group-type>ZONE</rule-group-type>
  <rule-group-type>GLOBAL</rule-group-type>
  <utm-policy>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
  </utm-policy>
  <rule-profile>
    <profile-type>CUSTOM</profile-type>
    <profile-type>USER_DEFINED</profile-type>
    <profile-type>INHERITED</profile-type>
    <profile-type>NONE</profile-type>
    <user-defined-profile>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
    </user-defined-profile>
    <custom-profile>
      <web-redirect>Boolean</web-redirect>
      <tcp-syn-check>Boolean</tcp-syn-check>
      <infranet-redirect>NONE</infranet-redirect>
      <infranet-redirect>REDIRECT_ALL</infranet-redirect>
      <infranet-redirect>REDIRECT_UNAUTHENTICATED</infranet-redirect>
      <per-second-alarm-threshold>Long</per-second-alarm-threshold>
      <per-minute-alarm-threshold>Long</per-minute-alarm-threshold>
      <destination-address-translation>NONE</destination-address-translation>
      <destination-address-translation>DROP_TRANSLATED</destination-address-translation>
      <destination-address-translation>DROP_UNTRANSLATED</destination-address-translation>
      <user-firewall-domain>String</user-firewall-domain>
      <redirect>NONE</redirect>
      <redirect>REDIRECT_WX</redirect>
      <redirect>REVERSE_REDIRECT_WX</redirect>
    </custom-profile>
    <sd-template>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
    </sd-template>
  </rule-profile>
</rule>
```

```

</sd-template>
<redirect-url>String</redirect-url>
<web-redirect-to-https>Boolean</web-redirect-to-https>
<access-profile-name>String</access-profile-name>
<enable-count>Boolean</enable-count>
<log-at-session-close>Boolean</log-at-session-close>
<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>
<service-offload>Boolean</service-offload>
<tcp-seq-check>Boolean</tcp-seq-check>
<pass-thru-auth-client-name>String</pass-thru-auth-client-name>
<web-auth-client-name>String</web-auth-client-name>
<log-at-session-init-time>Boolean</log-at-session-init-time>
<uri>String</uri>
</custom-profile>
<uri>String</uri>
</rule-profile>
<rule-order>Integer</rule-order>
<ips-enabled>Boolean</ips-enabled>
<policy-id>Integer</policy-id>
<destination-address>
  <exclude-list>Boolean</exclude-list>
  <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>
    <uri>String</uri>
  </address-reference>
  <uri>String</uri>
</addresses>
<uri>String</uri>
</destination-address>
<version>Integer</version>
<last-modified-by-user-name>String</last-modified-by-user-name>
<rule-type>RULE</rule-type>
<rule-type>RULEGROUP</rule-type>
<change-type>ADD</change-type>
<change-type>DELETE</change-type>
<change-type>MODIFY</change-type>
<vpn-tunnel-refs>
  <id>Integer</id>
  <publish-state>Not Published</publish-state>

```

```

    <publish-state>Partially Published</publish-state>
    <publish-state>Published</publish-state>
    <publish-state>Re-Publish Required</publish-state>
    <publish-state>Deleted</publish-state>
    <vpn-name>String</vpn-name>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <is-managed>Boolean</is-managed>
    <uri>String</uri>
  </vpn-tunnel-refs>
  <disabled>Boolean</disabled>
  <id>Integer</id>
  <hit-count-details>
    <id>Integer</id>
    <level>Zero</level>
    <level>High</level>
    <level>Medium</level>
    <level>Low</level>
    <total-hit-count>Long</total-hit-count>
    <hit-count>Long</hit-count>
    <name>String</name>
    <last-reset-time-stamp>Long</last-reset-time-stamp>
    <hit-percent>Double</hit-percent>
    <last-hit-time-stamp>Long</last-hit-time-stamp>
    <first-hit-time-stamp>Long</first-hit-time-stamp>
    <uri>String</uri>
  </hit-count-details>
  <created-time>Date</created-time>
  <edit-version>Integer</edit-version>
  <rule-group-id>Integer</rule-group-id>
  <scheduler>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
  </scheduler>
  <services>
    <service-reference>
      <id>Integer</id>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <is-group>Boolean</is-group>
      <uri>String</uri>
    </service-reference>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </services>
  <action>PERMIT</action>
  <action>DENY</action>
  <action>REJECT</action>
  <action>TUNNEL</action>
  <threat-policy>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
  </threat-policy>

```

```

<custom-column-data>String</custom-column-data>
<description>String</description>
<sourceidentities>
  <sourceidentity>String</sourceidentity>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</sourceidentities>
<last-modified-time>Date</last-modified-time>
<created-by-user-name>String</created-by-user-name>
<destination-zone>
  <zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <resolved>Boolean</resolved>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <domain-name>String</domain-name>
    <variable-id>Integer</variable-id>
    <default-value>String</default-value>
    <uri>String</uri>
  </zone>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</destination-zone>
<name>String</name>
<source-zone>
  <zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <resolved>Boolean</resolved>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <domain-name>String</domain-name>
    <variable-id>Integer</variable-id>
    <default-value>String</default-value>
    <uri>String</uri>
  </zone>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</source-zone>
<ssl-forward-proxy-profile>
  <id>Integer</id>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <domain-name>String</domain-name>
  <uri>String</uri>
</ssl-forward-proxy-profile>
<source-address>
  <exclude-list>Boolean</exclude-list>
  <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>
<uri>String</uri>
</address-reference>
<uri>String</uri>
</addresses>
<uri>String</uri>
</source-address>
<uri>String</uri>
</rule>

```

## 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>

```

## 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>
</rules>
```

```

</rule>
<uri>String</uri>
<totalSize>Integer</totalSize>
</rules>

```

## 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>
```

## 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" : {
    "edit-version" : "Integer",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "policy-state" : [ "DRAFT", "FINAL" ],
    "policy-order" : "Float",
    "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" ]
}
}
```

## Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <edit-version>Integer</edit-version>
  <policy-type>GLOBAL</policy-type>
  <policy-type>GROUP</policy-type>
  <policy-type>DEVICE</policy-type>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <policy-order>Float</policy-order>
  <name>String</name>
  <description>String</description>
  <id>Integer</id>
  <policy-position>DEVICE</policy-position>
  <policy-position>PRE</policy-position>
  <policy-position>POST</policy-position>
  <version>Integer</version>
  <policy-profile>
    <id>Integer</id>
    <name>String</name>
  </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>
</policy>
```

## Sample JSON Output:

```
{
  "policy" : {
    "last-modified-time" : "Date",
    "edit-version" : "Integer",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "policy-state" : [ "DRAFT", "FINAL" ],
    "policy-order" : "Float",
    "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"
}
}
```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <last-modified-time>Date</last-modified-time>
  <edit-version>Integer</edit-version>
  <policy-type>GLOBAL</policy-type>
  <policy-type>GROUP</policy-type>
  <policy-type>DEVICE</policy-type>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <policy-order>Float</policy-order>
  <created-time>Date</created-time>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <description>String</description>
  <id>Integer</id>
  <created-by-user-name>String</created-by-user-name>
  <policy-position>DEVICE</policy-position>
  <policy-position>PRE</policy-position>
  <policy-position>POST</policy-position>
  <version>Integer</version>
  <uri>String</uri>
  <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>
```

## 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" : "Integer",
      "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",
"detail-link" : {
  "name" : "String",
  "uri" : "String"
},
"level2-desc" : "String",
"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>Integer</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>
<detail-link>
  <name>String</name>
  <uri>String</uri>
</detail-link>
<level2-desc>String</level2-desc>
<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>

```

## 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"
    },
    "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" ],
        "service-offload" : "Boolean",
        "tcp-seq-check" : "Boolean",
        "pass-thru-auth-client-name" : "String",
        "web-auth-client-name" : "String",
        "log-at-session-init-time" : "Boolean"
      }
    },
    "rule-order" : "Integer",
    "ips-enabled" : "Boolean",
    "policy-id" : "Integer",
    "destination-address" : {
      "exclude-list" : "Boolean",
      "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" ]
        } ]
      }
    }
  },
}
```

```

"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",
"id" : "Integer",
"hit-count-details" : {
  "id" : "Integer",
  "level" : [ "Zero", "High", "Medium", "Low" ],
  "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"
  } ],
  "totalSize" : "Integer"
},
"action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL" ],
"threat-policy" : {
  "id" : "Integer",
  "name" : "String"
},
"custom-column-data" : "String",
"description" : "String",
"sourceidentities" : {
  "sourceidentity" : [ "String" ],
  "totalSize" : "Integer"
},
"destination-zone" : {
  "zone" : [ {
    "id" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET" ],
    "resolved" : "Boolean",
    "name" : "String",
    "variable-id" : "Integer",
    "default-value" : "String"
  } ],
  "totalSize" : "Integer"
},

```

```

"name" : "String",
"source-zone" : {
  "zone" : [ {
    "id" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET" ],
    "resolved" : "Boolean",
    "name" : "String",
    "variable-id" : "Integer",
    "default-value" : "String"
  } ],
  "totalSize" : "Integer"
},
"ssl-forward-proxy-profile" : {
  "id" : "Integer",
  "name" : "String"
},
"source-address" : {
  "exclude-list" : "Boolean",
  "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" ]
    } ]
  }
}
}
}

```

## Sample XML Input

```

<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <app-fw-policy>
    <id>Integer</id>
    <name>String</name>
  </app-fw-policy>
  <rule-group-type>CUSTOM</rule-group-type>
  <rule-group-type>ZONE</rule-group-type>
  <rule-group-type>GLOBAL</rule-group-type>
  <utm-policy>
    <id>Integer</id>
    <name>String</name>
  </utm-policy>
  <rule-profile>
    <profile-type>CUSTOM</profile-type>
    <profile-type>USER_DEFINED</profile-type>
    <profile-type>INHERITED</profile-type>
    <profile-type>NONE</profile-type>
    <user-defined-profile>
      <id>Integer</id>
      <name>String</name>
    </user-defined-profile>
    <custom-profile>
      <web-redirect>Boolean</web-redirect>
      <tcp-syn-check>Boolean</tcp-syn-check>
      <infranet-redirect>NONE</infranet-redirect>
      <infranet-redirect>REDIRECT_ALL</infranet-redirect>
      <infranet-redirect>REDIRECT_UNAUTHENTICATED</infranet-redirect>
      <per-second-alarm-threshold>Long</per-second-alarm-threshold>
    </custom-profile>
  </rule-profile>

```

```

<per-minute-alarm-threshold>Long</per-minute-alarm-threshold>
<destination-address-translation>NONE</destination-address-translation>
<destination-address-translation>DROP_TRANSLATED</destination-address-translation>
<destination-address-translation>DROP_UNTRANSLATED</destination-address-translation>
<user-firewall-domain>String</user-firewall-domain>
<redirect>NONE</redirect>
<redirect>REDIRECT_WX</redirect>
<redirect>REVERSE_REDIRECT_WX</redirect>
<sd-template>
  <id>Integer</id>
  <name>String</name>
</sd-template>
<redirect-url>String</redirect-url>
<web-redirect-to-https>Boolean</web-redirect-to-https>
<access-profile-name>String</access-profile-name>
<enable-count>Boolean</enable-count>
<log-at-session-close>Boolean</log-at-session-close>
<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>
<service-offload>Boolean</service-offload>
<tcp-seq-check>Boolean</tcp-seq-check>
<pass-thru-auth-client-name>String</pass-thru-auth-client-name>
<web-auth-client-name>String</web-auth-client-name>
<log-at-session-init-time>Boolean</log-at-session-init-time>
</custom-profile>
</rule-profile>
<rule-order>Integer</rule-order>
<ips-enabled>Boolean</ips-enabled>
<policy-id>Integer</policy-id>
<destination-address>
  <exclude-list>Boolean</exclude-list>
  <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>
  </addresses>
</destination-address>
<version>Integer</version>
<rule-type>RULE</rule-type>
<rule-type>RULEGROUP</rule-type>
<change-type>ADD</change-type>
<change-type>DELETE</change-type>

```

```

<change-type>MODIFY</change-type>
<vpn-tunnel-refs>
  <id>Integer</id>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <vpn-name>String</vpn-name>
  <name>String</name>
  <is-managed>Boolean</is-managed>
</vpn-tunnel-refs>
<disabled>Boolean</disabled>
<id>Integer</id>
<hit-count-details>
  <id>Integer</id>
  <level>Zero</level>
  <level>High</level>
  <level>Medium</level>
  <level>Low</level>
  <total-hit-count>Long</total-hit-count>
  <hit-count>Long</hit-count>
  <name>String</name>
  <last-reset-time-stamp>Long</last-reset-time-stamp>
  <hit-percent>Double</hit-percent>
  <last-hit-time-stamp>Long</last-hit-time-stamp>
  <first-hit-time-stamp>Long</first-hit-time-stamp>
</hit-count-details>
<edit-version>Integer</edit-version>
<rule-group-id>Integer</rule-group-id>
<scheduler>
  <id>Integer</id>
  <name>String</name>
</scheduler>
<services>
  <service-reference>
    <id>Integer</id>
    <name>String</name>
    <is-group>Boolean</is-group>
  </service-reference>
  <totalSize>Integer</totalSize>
</services>
<action>PERMIT</action>
<action>DENY</action>
<action>REJECT</action>
<action>TUNNEL</action>
<threat-policy>
  <id>Integer</id>
  <name>String</name>
</threat-policy>
<custom-column-data>String</custom-column-data>
<description>String</description>
<sourceidentities>
  <sourceidentity>String</sourceidentity>
  <totalSize>Integer</totalSize>
</sourceidentities>
<destination-zone>
  <zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>

```

```

    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <resolved>Boolean</resolved>
    <name>String</name>
    <variable-id>Integer</variable-id>
    <default-value>String</default-value>
  </zone>
  <totalSize>Integer</totalSize>
</destination-zone>
<name>String</name>
<source-zone>
  <zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <resolved>Boolean</resolved>
    <name>String</name>
    <variable-id>Integer</variable-id>
    <default-value>String</default-value>
  </zone>
  <totalSize>Integer</totalSize>
</source-zone>
<ssl-forward-proxy-profile>
  <id>Integer</id>
  <name>String</name>
</ssl-forward-proxy-profile>
<source-address>
  <exclude-list>Boolean</exclude-list>
  <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>
  </addresses>
</source-address>
</rule>

```

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"
    },
    "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" ],
            "service-offload" : "Boolean",
            "tcp-seq-check" : "Boolean",
            "pass-thru-auth-client-name" : "String",
            "web-auth-client-name" : "String",
            "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" : [ {
                "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" ],
  "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",
"id" : "Integer",
"hit-count-details" : {
  "id" : "Integer",
  "level" : [ "Zero", "High", "Medium", "Low" ],
  "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"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL" ],
"threat-policy" : {
  "id" : "Integer",

```

```

    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "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" ],
      "resolved" : "Boolean",
      "domain-id" : "Integer",
      "name" : "String",
      "domain-name" : "String",
      "variable-id" : "Integer",
      "default-value" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  },
  "name" : "String",
  "source-zone" : {
    "zone" : [ {
      "id" : "Integer",
      "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET" ],
      "resolved" : "Boolean",
      "domain-id" : "Integer",
      "name" : "String",
      "domain-name" : "String",
      "variable-id" : "Integer",
      "default-value" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  },
  "ssl-forward-proxy-profile" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "String",
    "uri" : "String"
  },
  "source-address" : {
    "exclude-list" : "Boolean",
    "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" ],
  "uri" : "String"
} ],
  "uri" : "String"
},
  "uri" : "String"
},
  "uri" : "String"
}
}
```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <app-fw-policy>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
  </app-fw-policy>
  <rule-group-type>CUSTOM</rule-group-type>
  <rule-group-type>ZONE</rule-group-type>
  <rule-group-type>GLOBAL</rule-group-type>
  <utm-policy>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
  </utm-policy>
  <rule-profile>
    <profile-type>CUSTOM</profile-type>
    <profile-type>USER_DEFINED</profile-type>
    <profile-type>INHERITED</profile-type>
    <profile-type>NONE</profile-type>
    <user-defined-profile>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
    </user-defined-profile>
    <custom-profile>
      <web-redirect>Boolean</web-redirect>
      <tcp-syn-check>Boolean</tcp-syn-check>
      <infranet-redirect>NONE</infranet-redirect>
      <infranet-redirect>REDIRECT_ALL</infranet-redirect>
      <infranet-redirect>REDIRECT_UNAUTHENTICATED</infranet-redirect>
      <per-second-alarm-threshold>Long</per-second-alarm-threshold>
      <per-minute-alarm-threshold>Long</per-minute-alarm-threshold>
      <destination-address-translation>NONE</destination-address-translation>
      <destination-address-translation>DROP_TRANSLATED</destination-address-translation>
      <destination-address-translation>DROP_UNTRANSLATED</destination-address-translation>
      <user-firewall-domain>String</user-firewall-domain>
      <redirect>NONE</redirect>
      <redirect>REDIRECT_WX</redirect>
      <redirect>REVERSE_REDIRECT_WX</redirect>
    </custom-profile>
    <sd-template>
      <id>Integer</id>
```

```

    <name>String</name>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
  </sd-template>
  <redirect-url>String</redirect-url>
  <web-redirect-to-https>Boolean</web-redirect-to-https>
  <access-profile-name>String</access-profile-name>
  <enable-count>Boolean</enable-count>
  <log-at-session-close>Boolean</log-at-session-close>
  <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>
  <service-offload>Boolean</service-offload>
  <tcp-seq-check>Boolean</tcp-seq-check>
  <pass-thru-auth-client-name>String</pass-thru-auth-client-name>
  <web-auth-client-name>String</web-auth-client-name>
  <log-at-session-init-time>Boolean</log-at-session-init-time>
  <uri>String</uri>
</custom-profile>
<uri>String</uri>
</rule-profile>
<rule-order>Integer</rule-order>
<ips-enabled>Boolean</ips-enabled>
<policy-id>Integer</policy-id>
<destination-address>
  <exclude-list>Boolean</exclude-list>
  <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>
      <uri>String</uri>
    </address-reference>
    <uri>String</uri>
  </addresses>
  <uri>String</uri>
</destination-address>
<version>Integer</version>
<last-modified-by-user-name>String</last-modified-by-user-name>
<rule-type>RULE</rule-type>
<rule-type>RULEGROUP</rule-type>
<change-type>ADD</change-type>
<change-type>DELETE</change-type>
<change-type>MODIFY</change-type>

```

```

<vpn-tunnel-refs>
  <id>Integer</id>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <vpn-name>String</vpn-name>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <domain-name>String</domain-name>
  <is-managed>Boolean</is-managed>
  <uri>String</uri>
</vpn-tunnel-refs>
<disabled>Boolean</disabled>
<id>Integer</id>
<hit-count-details>
  <id>Integer</id>
  <level>Zero</level>
  <level>High</level>
  <level>Medium</level>
  <level>Low</level>
  <total-hit-count>Long</total-hit-count>
  <hit-count>Long</hit-count>
  <name>String</name>
  <last-reset-time-stamp>Long</last-reset-time-stamp>
  <hit-percent>Double</hit-percent>
  <last-hit-time-stamp>Long</last-hit-time-stamp>
  <first-hit-time-stamp>Long</first-hit-time-stamp>
  <uri>String</uri>
</hit-count-details>
<created-time>Date</created-time>
<edit-version>Integer</edit-version>
<rule-group-id>Integer</rule-group-id>
<scheduler>
  <id>Integer</id>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <domain-name>String</domain-name>
  <uri>String</uri>
</scheduler>
<services>
  <service-reference>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <is-group>Boolean</is-group>
    <uri>String</uri>
  </service-reference>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</services>
<action>PERMIT</action>
<action>DENY</action>
<action>REJECT</action>
<action>TUNNEL</action>
<threat-policy>
  <id>Integer</id>
  <name>String</name>
  <domain-id>Integer</domain-id>

```

```

    <domain-name>String</domain-name>
    <uri>String</uri>
  </threat-policy>
  <custom-column-data>String</custom-column-data>
  <description>String</description>
  <sourceidentities>
    <sourceidentity>String</sourceidentity>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </sourceidentities>
  <last-modified-time>Date</last-modified-time>
  <created-by-user-name>String</created-by-user-name>
  <destination-zone>
    <zone>
      <id>Integer</id>
      <zone-type>POLYMORPHIC</zone-type>
      <zone-type>ZONE</zone-type>
      <zone-type>ZONESET</zone-type>
      <resolved>Boolean</resolved>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <variable-id>Integer</variable-id>
      <default-value>String</default-value>
      <uri>String</uri>
    </zone>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </destination-zone>
  <name>String</name>
  <source-zone>
    <zone>
      <id>Integer</id>
      <zone-type>POLYMORPHIC</zone-type>
      <zone-type>ZONE</zone-type>
      <zone-type>ZONESET</zone-type>
      <resolved>Boolean</resolved>
      <domain-id>Integer</domain-id>
      <name>String</name>
      <domain-name>String</domain-name>
      <variable-id>Integer</variable-id>
      <default-value>String</default-value>
      <uri>String</uri>
    </zone>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </source-zone>
  <ssl-forward-proxy-profile>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
  </ssl-forward-proxy-profile>
  <source-address>
    <exclude-list>Boolean</exclude-list>
    <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>
<uri>String</uri>
</address-reference>
<uri>String</uri>
</addresses>
<uri>String</uri>
</source-address>
<uri>String</uri>
</rule>

```

## 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" : {
    "edit-version" : "Integer",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "policy-state" : [ "DRAFT", "FINAL" ],
    "policy-order" : "Float",
    "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" ]
  }
}
```

## Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <edit-version>Integer</edit-version>
  <policy-type>GLOBAL</policy-type>
  <policy-type>GROUP</policy-type>
  <policy-type>DEVICE</policy-type>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <policy-order>Float</policy-order>
  <name>String</name>
  <description>String</description>
  <id>Integer</id>
  <policy-position>DEVICE</policy-position>
  <policy-position>PRE</policy-position>
  <policy-position>POST</policy-position>
  <version>Integer</version>
  <policy-profile>
    <id>Integer</id>
    <name>String</name>
  </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>
</policy>
```

## Sample JSON Output:

```
{
  "policy" : {
    "last-modified-time" : "Date",
    "edit-version" : "Integer",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "policy-state" : [ "DRAFT", "FINAL" ],
    "policy-order" : "Float",
    "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"
}
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <last-modified-time>Date</last-modified-time>
  <edit-version>Integer</edit-version>
  <policy-type>GLOBAL</policy-type>
  <policy-type>GROUP</policy-type>
  <policy-type>DEVICE</policy-type>
  <policy-state>DRAFT</policy-state>
  <policy-state>FINAL</policy-state>
  <policy-order>Float</policy-order>
  <created-time>Date</created-time>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <description>String</description>
  <id>Integer</id>
  <created-by-user-name>String</created-by-user-name>
  <policy-position>DEVICE</policy-position>
  <policy-position>PRE</policy-position>
  <policy-position>POST</policy-position>
  <version>Integer</version>
  <uri>String</uri>
  <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>

```

## 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"
    },
    "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" ],

```

```

        "service-offload" : "Boolean",
        "tcp-seq-check" : "Boolean",
        "pass-thru-auth-client-name" : "String",
        "web-auth-client-name" : "String",
        "log-at-session-init-time" : "Boolean"
    }
},
"rule-order" : "Integer",
"ips-enabled" : "Boolean",
"policy-id" : "Integer",
"destination-address" : {
    "exclude-list" : "Boolean",
    "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" ]
        } ]
    }
},
"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",
"id" : "Integer",
"hit-count-details" : {
    "id" : "Integer",
    "level" : [ "Zero", "High", "Medium", "Low" ],
    "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"
    } ],
    "totalSize" : "Integer"
},
},

```

```

"action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL" ],
"threat-policy" : {
  "id" : "Integer",
  "name" : "String"
},
"custom-column-data" : "String",
"description" : "String",
"sourceidentities" : {
  "sourceidentity" : [ "String" ],
  "totalSize" : "Integer"
},
"destination-zone" : {
  "zone" : [ {
    "id" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET" ],
    "resolved" : "Boolean",
    "name" : "String",
    "variable-id" : "Integer",
    "default-value" : "String"
  } ],
  "totalSize" : "Integer"
},
"name" : "String",
"source-zone" : {
  "zone" : [ {
    "id" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET" ],
    "resolved" : "Boolean",
    "name" : "String",
    "variable-id" : "Integer",
    "default-value" : "String"
  } ],
  "totalSize" : "Integer"
},
"ssl-forward-proxy-profile" : {
  "id" : "Integer",
  "name" : "String"
},
"source-address" : {
  "exclude-list" : "Boolean",
  "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" ]
    } ]
  }
}
}
}

```

## Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <app-fw-policy>
    <id>Integer</id>
    <name>String</name>
  </app-fw-policy>
  <rule-group-type>CUSTOM</rule-group-type>
  <rule-group-type>ZONE</rule-group-type>
  <rule-group-type>GLOBAL</rule-group-type>
  <utm-policy>
    <id>Integer</id>
    <name>String</name>
  </utm-policy>
  <rule-profile>
    <profile-type>CUSTOM</profile-type>
    <profile-type>USER_DEFINED</profile-type>
    <profile-type>INHERITED</profile-type>
    <profile-type>NONE</profile-type>
    <user-defined-profile>
      <id>Integer</id>
      <name>String</name>
    </user-defined-profile>
    <custom-profile>
      <web-redirect>Boolean</web-redirect>
      <tcp-syn-check>Boolean</tcp-syn-check>
      <infranet-redirect>NONE</infranet-redirect>
      <infranet-redirect>REDIRECT_ALL</infranet-redirect>
      <infranet-redirect>REDIRECT_UNAUTHENTICATED</infranet-redirect>
      <per-second-alarm-threshold>Long</per-second-alarm-threshold>
      <per-minute-alarm-threshold>Long</per-minute-alarm-threshold>
      <destination-address-translation>NONE</destination-address-translation>
      <destination-address-translation>DROP_TRANSLATED</destination-address-translation>
      <destination-address-translation>DROP_UNTRANSLATED</destination-address-translation>
      <user-firewall-domain>String</user-firewall-domain>
      <redirect>NONE</redirect>
      <redirect>REDIRECT_WX</redirect>
      <redirect>REVERSE_REDIRECT_WX</redirect>
      <sd-template>
        <id>Integer</id>
        <name>String</name>
      </sd-template>
      <redirect-url>String</redirect-url>
      <web-redirect-to-https>Boolean</web-redirect-to-https>
      <access-profile-name>String</access-profile-name>
      <enable-count>Boolean</enable-count>
      <log-at-session-close>Boolean</log-at-session-close>
      <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>
      <service-offload>Boolean</service-offload>
      <tcp-seq-check>Boolean</tcp-seq-check>
      <pass-thru-auth-client-name>String</pass-thru-auth-client-name>
      <web-auth-client-name>String</web-auth-client-name>
      <log-at-session-init-time>Boolean</log-at-session-init-time>
    </custom-profile>
  </rule-profile>
</rule-order>Integer</rule-order>
```

```

<ips-enabled>Boolean</ips-enabled>
<policy-id>Integer</policy-id>
<destination-address>
  <exclude-list>Boolean</exclude-list>
  <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>
  </addresses>
</destination-address>
<version>Integer</version>
<rule-type>RULE</rule-type>
<rule-type>RULEGROUP</rule-type>
<change-type>ADD</change-type>
<change-type>DELETE</change-type>
<change-type>MODIFY</change-type>
<vpn-tunnel-refs>
  <id>Integer</id>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <vpn-name>String</vpn-name>
  <name>String</name>
  <is-managed>Boolean</is-managed>
</vpn-tunnel-refs>
<disabled>Boolean</disabled>
<id>Integer</id>
<hit-count-details>
  <id>Integer</id>
  <level>Zero</level>
  <level>High</level>
  <level>Medium</level>
  <level>Low</level>
  <total-hit-count>Long</total-hit-count>
  <hit-count>Long</hit-count>
  <name>String</name>
  <last-reset-time-stamp>Long</last-reset-time-stamp>
  <hit-percent>Double</hit-percent>
  <last-hit-time-stamp>Long</last-hit-time-stamp>
  <first-hit-time-stamp>Long</first-hit-time-stamp>
</hit-count-details>
<edit-version>Integer</edit-version>
<rule-group-id>Integer</rule-group-id>

```

```

<scheduler>
  <id>Integer</id>
  <name>String</name>
</scheduler>
<services>
  <service-reference>
    <id>Integer</id>
    <name>String</name>
    <is-group>Boolean</is-group>
  </service-reference>
  <totalSize>Integer</totalSize>
</services>
<action>PERMIT</action>
<action>DENY</action>
<action>REJECT</action>
<action>TUNNEL</action>
<threat-policy>
  <id>Integer</id>
  <name>String</name>
</threat-policy>
<custom-column-data>String</custom-column-data>
<description>String</description>
<sourceidentities>
  <sourceidentity>String</sourceidentity>
  <totalSize>Integer</totalSize>
</sourceidentities>
<destination-zone>
  <zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <resolved>Boolean</resolved>
    <name>String</name>
    <variable-id>Integer</variable-id>
    <default-value>String</default-value>
  </zone>
  <totalSize>Integer</totalSize>
</destination-zone>
<name>String</name>
<source-zone>
  <zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <resolved>Boolean</resolved>
    <name>String</name>
    <variable-id>Integer</variable-id>
    <default-value>String</default-value>
  </zone>
  <totalSize>Integer</totalSize>
</source-zone>
<ssl-forward-proxy-profile>
  <id>Integer</id>
  <name>String</name>
</ssl-forward-proxy-profile>
<source-address>
  <exclude-list>Boolean</exclude-list>
  <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>
</addresses>
</source-address>
</rule>

```

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"
    },
    "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" ],
    "service-offload" : "Boolean",
    "tcp-seq-check" : "Boolean",
    "pass-thru-auth-client-name" : "String",
    "web-auth-client-name" : "String",
    "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" : [ {
            "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" ],
            "uri" : "String"
        } ],
        "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",
"id" : "Integer",
"hit-count-details" : {
    "id" : "Integer",
    "level" : [ "Zero", "High", "Medium", "Low" ],
    "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"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  },
  "action" : [ "PERMIT", "DENY", "REJECT", "TUNNEL" ],
  "threat-policy" : {
    "id" : "Integer",
    "name" : "String",
    "domain-id" : "Integer",
    "domain-name" : "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" ],
      "resolved" : "Boolean",
      "domain-id" : "Integer",
      "name" : "String",
      "domain-name" : "String",
      "variable-id" : "Integer",
      "default-value" : "String",
      "uri" : "String"
    } ],
    "uri" : "String",
    "totalSize" : "Integer"
  },
  "name" : "String",

```

```

"source-zone" : {
  "zone" : [ {
    "id" : "Integer",
    "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET" ],
    "resolved" : "Boolean",
    "domain-id" : "Integer",
    "name" : "String",
    "domain-name" : "String",
    "variable-id" : "Integer",
    "default-value" : "String",
    "uri" : "String"
  } ],
  "uri" : "String",
  "totalSize" : "Integer"
},
"ssl-forward-proxy-profile" : {
  "id" : "Integer",
  "name" : "String",
  "domain-id" : "Integer",
  "domain-name" : "String",
  "uri" : "String"
},
"source-address" : {
  "exclude-list" : "Boolean",
  "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" ],
      "uri" : "String"
    } ],
    "uri" : "String"
  },
  "uri" : "String"
},
"uri" : "String"
}
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <app-fw-policy>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
    <uri>String</uri>
  </app-fw-policy>
  <rule-group-type>CUSTOM</rule-group-type>
  <rule-group-type>ZONE</rule-group-type>
  <rule-group-type>GLOBAL</rule-group-type>
  <utm-policy>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <domain-name>String</domain-name>
  </utm-policy>
</rule>

```

```

    <uri>String</uri>
  </utm-policy>
</rule-profile>
  <profile-type>CUSTOM</profile-type>
  <profile-type>USER_DEFINED</profile-type>
  <profile-type>INHERITED</profile-type>
  <profile-type>NONE</profile-type>
  <user-defined-profile>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
  </user-defined-profile>
  <custom-profile>
    <web-redirect>Boolean</web-redirect>
    <tcp-syn-check>Boolean</tcp-syn-check>
    <infranet-redirect>NONE</infranet-redirect>
    <infranet-redirect>REDIRECT_ALL</infranet-redirect>
    <infranet-redirect>REDIRECT_UNAUTHENTICATED</infranet-redirect>
    <per-second-alarm-threshold>Long</per-second-alarm-threshold>
    <per-minute-alarm-threshold>Long</per-minute-alarm-threshold>
    <destination-address-translation>NONE</destination-address-translation>
    <destination-address-translation>DROP_TRANSLATED</destination-address-translation>
    <destination-address-translation>DROP_UNTRANSLATED</destination-address-translation>
    <user-firewall-domain>String</user-firewall-domain>
    <redirect>NONE</redirect>
    <redirect>REDIRECT_WX</redirect>
    <redirect>REVERSE_REDIRECT_WX</redirect>
    <sd-template>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
    </sd-template>
    <redirect-url>String</redirect-url>
    <web-redirect-to-https>Boolean</web-redirect-to-https>
    <access-profile-name>String</access-profile-name>
    <enable-count>Boolean</enable-count>
    <log-at-session-close>Boolean</log-at-session-close>
    <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>
    <service-offload>Boolean</service-offload>
    <tcp-seq-check>Boolean</tcp-seq-check>
    <pass-thru-auth-client-name>String</pass-thru-auth-client-name>
    <web-auth-client-name>String</web-auth-client-name>
    <log-at-session-init-time>Boolean</log-at-session-init-time>
    <uri>String</uri>
  </custom-profile>
  <uri>String</uri>
</rule-profile>
<rule-order>Integer</rule-order>
<ips-enabled>Boolean</ips-enabled>
<policy-id>Integer</policy-id>
<destination-address>
  <exclude-list>Boolean</exclude-list>
  <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>
<uri>String</uri>
</address-reference>
<uri>String</uri>
</addresses>
<uri>String</uri>
</destination-address>
<version>Integer</version>
<last-modified-by-user-name>String</last-modified-by-user-name>
<rule-type>RULE</rule-type>
<rule-type>RULEGROUP</rule-type>
<change-type>ADD</change-type>
<change-type>DELETE</change-type>
<change-type>MODIFY</change-type>
<vpn-tunnel-refs>
  <id>Integer</id>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
  <publish-state>Deleted</publish-state>
  <vpn-name>String</vpn-name>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <domain-name>String</domain-name>
  <is-managed>Boolean</is-managed>
  <uri>String</uri>
</vpn-tunnel-refs>
<disabled>Boolean</disabled>
<id>Integer</id>
<hit-count-details>
  <id>Integer</id>
  <level>Zero</level>
  <level>High</level>
  <level>Medium</level>
  <level>Low</level>
  <total-hit-count>Long</total-hit-count>
  <hit-count>Long</hit-count>
  <name>String</name>
  <last-reset-time-stamp>Long</last-reset-time-stamp>
  <hit-percent>Double</hit-percent>
  <last-hit-time-stamp>Long</last-hit-time-stamp>
  <first-hit-time-stamp>Long</first-hit-time-stamp>
  <uri>String</uri>

```

```

</hit-count-details>
<created-time>Date</created-time>
<edit-version>Integer</edit-version>
<rule-group-id>Integer</rule-group-id>
<scheduler>
  <id>Integer</id>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <domain-name>String</domain-name>
  <uri>String</uri>
</scheduler>
<services>
  <service-reference>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <is-group>Boolean</is-group>
    <uri>String</uri>
  </service-reference>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</services>
<action>PERMIT</action>
<action>DENY</action>
<action>REJECT</action>
<action>TUNNEL</action>
<threat-policy>
  <id>Integer</id>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <domain-name>String</domain-name>
  <uri>String</uri>
</threat-policy>
<custom-column-data>String</custom-column-data>
<description>String</description>
<sourceidentities>
  <sourceidentity>String</sourceidentity>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</sourceidentities>
<last-modified-time>Date</last-modified-time>
<created-by-user-name>String</created-by-user-name>
<destination-zone>
  <zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <resolved>Boolean</resolved>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <domain-name>String</domain-name>
    <variable-id>Integer</variable-id>
    <default-value>String</default-value>
    <uri>String</uri>
  </zone>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</destination-zone>
<name>String</name>

```

```

<source-zone>
  <zone>
    <id>Integer</id>
    <zone-type>POLYMORPHIC</zone-type>
    <zone-type>ZONE</zone-type>
    <zone-type>ZONESET</zone-type>
    <resolved>Boolean</resolved>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <domain-name>String</domain-name>
    <variable-id>Integer</variable-id>
    <default-value>String</default-value>
    <uri>String</uri>
  </zone>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</source-zone>
<ssl-forward-proxy-profile>
  <id>Integer</id>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <domain-name>String</domain-name>
  <uri>String</uri>
</ssl-forward-proxy-profile>
<source-address>
  <exclude-list>Boolean</exclude-list>
  <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>
      <uri>String</uri>
    </address-reference>
    <uri>String</uri>
  </addresses>
  <uri>String</uri>
</source-address>
<uri>String</uri>
</rule>

```

## 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

---

## CHAPTER 2

### NAT Policy Management RESTful Web Services

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

#### 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" : {
      "proxy-arp-entries" : {
        "arp-entry" : [ {
          "is-overridden" : "Boolean",
          "address" : {
            "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" ],
        "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" : {
    "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" ]
},
"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" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean",

```

```

        "uri" : "String"
    } ],
    "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" : [ {
            "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" ],
            "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
    },
    "dst-address" : {
        "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" ],
            "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
    }
}

```

```

    } ],
    "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" : {
      "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" ],
      "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",
"rule-order" : "Integer",
"uri" : "String"
}
}
```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <version>Integer</version>
  <created-time>Date</created-time>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <edit-version>Integer</edit-version>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-time>Date</last-modified-time>
  <rule-group-type>CUSTOM</rule-group-type>
  <rule-group-type>ZONE</rule-group-type>
  <rule-group-type>GLOBAL</rule-group-type>
  <translated-packet>
    <poxy-arp-entries>
      <arp-entry>
        <is-overridden>Boolean</is-overridden>
        <address>
          <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>
          <uri>String</uri>
        </address>
        <intf-value>String</intf-value>
        <state>NEW</state>
        <state>MODIFY</state>
        <state>DELETED</state>
        <state>NOCHANGE</state>
        <recommended-intf-value>String</recommended-intf-value>
        <range-ip>String</range-ip>
        <uri>String</uri>
      </arp-entry>
      <uri>String</uri>
    </poxy-arp-entries>
    <translated-traffic-match-type>NO_TRANSLATION</translated-traffic-match-type>
    <translated-traffic-match-type>INTERFACE</translated-traffic-match-type>
    <translated-traffic-match-type>POOL</translated-traffic-match-type>
  </translated-packet>
  <totalSize>Integer</totalSize>
</rule>
```

```

<translated-traffic-match-type>INET</translated-traffic-match-type>
<translated-traffic-match-type>PREFIX</translated-traffic-match-type>
<persistent-nat-setting>
  <address-mapping>Boolean</address-mapping>
  <max_session_number>Integer</max_session_number>
  <inactivity-timeout>Integer</inactivity-timeout>
  <uri>String</uri>
  <persistent-nat-type>NONE</persistent-nat-type>
  <persistent-nat-type>ANY_REMOTE_HOST</persistent-nat-type>
  <persistent-nat-type>TARGET_HOST</persistent-nat-type>
  <persistent-nat-type>TARGET_HOST_PORT</persistent-nat-type>
</persistent-nat-setting>
<mapped-port>String</mapped-port>
<egress-interface>
  <egress-interface>String</egress-interface>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</egress-interface>
<translated-address>
  <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>
</translated-address>
<routing-instance-name>String</routing-instance-name>
<proxy-arp-enabled>Boolean</proxy-arp-enabled>
<pool-addresses>
  <id>Integer</id>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <uri>String</uri>
</pool-addresses>
<uri>String</uri>
</translated-packet>
<id>Integer</id>
<description>String</description>
<name>String</name>
<services>
  <service-reference>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <is-group>Boolean</is-group>
    <uri>String</uri>
  </service-reference>

```

```

    <uri>String</uri>
  </services>
  <nat-type>STATIC</nat-type>
  <nat-type>SOURCE</nat-type>
  <nat-type>DESTINATION</nat-type>
  <original-packet>
    <src-port-sets>
      <reference>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <uri>String</uri>
      </reference>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </src-port-sets>
    <protocol>
      <protocol-data>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <value>String</value>
        <uri>String</uri>
      </protocol-data>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </protocol>
    <src-zone-sets>
      <reference>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <uri>String</uri>
      </reference>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </src-zone-sets>
    <src-traffic-match-type>Zone</src-traffic-match-type>
    <src-traffic-match-type>Interface</src-traffic-match-type>
    <src-traffic-match-type>Routing Instance</src-traffic-match-type>
    <src-address>
      <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>
        <uri>String</uri>
      </address-reference>
    </src-address>
  </nat>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</nat>

```



```

</address-reference>
<uri>String</uri>
<totalSize>Integer</totalSize>
</src-address>
<dst-address>
  <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>
    <uri>String</uri>
  </address-reference>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</dst-address>
<src-traffic-match-value>
  <src-traffic-match-value>String</src-traffic-match-value>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</src-traffic-match-value>
<dst-ports>String</dst-ports>
<proxy-arp-entry>
  <is-overridden>Boolean</is-overridden>
  <address>
    <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>
    <uri>String</uri>
  </address>
  <state>NEW</state>
  <state>MODIFY</state>
  <state>DELETED</state>
  <state>NOCHANGE</state>

```

```

    <intf-value>String</intf-value>
    <recommended-intf-value>String</recommended-intf-value>
    <range-ip>String</range-ip>
    <uri>String</uri>
  </proxy-arp-entry>
  <proxy-arp-enabled>Boolean</proxy-arp-enabled>
  <dst-traffic-match-type>Zone</dst-traffic-match-type>
  <dst-traffic-match-type>Interface</dst-traffic-match-type>
  <dst-traffic-match-type>Routing Instance</dst-traffic-match-type>
  <src-ports>String</src-ports>
  <uri>String</uri>
  <dst-traffic-match-value>
    <dst-traffic-match-value>String</dst-traffic-match-value>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </dst-traffic-match-value>
  <dst-zone-sets>
    <reference>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
    </reference>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </dst-zone-sets>
  <dst-port-sets>
    <reference>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
    </reference>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </dst-port-sets>
</original-packet>
<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>
<uri>String</uri>
</rule>

```

## 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>
```

## 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>
```

## 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

Sample JSON Output:

```
{
  "policies" : {
    "policy" : [ {
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "version" : "Integer",
      "sequence-number" : "Integer",
      "locked-for-edit" : "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" : "Float",
      "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>
    <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>
    <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>Float</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>

```

## 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" : {
    "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",
    "policy-position" : [ "DEVICE", "PRE", "POST" ],
    "description" : "String",
    "name" : "String",
    "policy-order" : "Float",
    "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"
  }
}
```

#### Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-time>Date</created-time>
  <edit-version>Integer</edit-version>
  <version>Integer</version>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-time>Date</last-modified-time>
  <policy-position>DEVICE</policy-position>
  <policy-position>PRE</policy-position>
  <policy-position>POST</policy-position>
  <description>String</description>
  <name>String</name>
  <policy-order>Float</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>
  <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>
```



```
<enable-auto-arp>Boolean</enable-auto-arp>
<proxy-arp-managed>Boolean</proxy-arp-managed>
<uri>String</uri>
</policy>
```

## 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" : {
            "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" ]
          },
          "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" : {
        "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" ]
    },
    "routing-instance-name" : "String",
    "proxy-arp-enabled" : "Boolean",
    "pool-addresses" : {
        "id" : "Integer",
        "name" : "String"
    }
},
"id" : "Integer",
"description" : "String",
"name" : "String",
"services" : {
    "service-reference" : [ {
        "id" : "Integer",
        "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" : [ {
      "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" ]
    } ],
    "totalSize" : "Integer"
  },
  "dst-address" : {
    "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" ]
    } ],
    "totalSize" : "Integer"
  },
  "src-traffic-match-value" : {
    "src-traffic-match-value" : [ "String" ],
    "totalSize" : "Integer"
  },
  "dst-ports" : "String",
  "proxy-arp-entry" : {
    "is-override" : "Boolean",
    "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" ]
    },
    "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",
  "rule-order" : "Integer"
}
}

```

## Sample XML Input

```

<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <version>Integer</version>
  <edit-version>Integer</edit-version>
  <rule-group-type>CUSTOM</rule-group-type>
  <rule-group-type>ZONE</rule-group-type>
  <rule-group-type>GLOBAL</rule-group-type>
  <translated-packet>
    <poxy-arp-entries>
      <arp-entry>
        <is-overridden>Boolean</is-overridden>
        <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>
        </address>
        <intf-value>String</intf-value>
        <state>NEW</state>
        <state>MODIFY</state>
        <state>DELETED</state>
        <state>NOCHANGE</state>
        <recommended-intf-value>String</recommended-intf-value>
        <range-ip>String</range-ip>
      </arp-entry>
      <totalSize>Integer</totalSize>
    </poxy-arp-entries>
    <translated-traffic-match-type>NO_TRANSLATION</translated-traffic-match-type>
    <translated-traffic-match-type>INTERFACE</translated-traffic-match-type>
    <translated-traffic-match-type>POOL</translated-traffic-match-type>
    <translated-traffic-match-type>INET</translated-traffic-match-type>
    <translated-traffic-match-type>PREFIX</translated-traffic-match-type>
    <persistent-nat-setting>
      <address-mapping>Boolean</address-mapping>
      <max_session_number>Integer</max_session_number>
    </persistent-nat-setting>
  </translated-packet>
</rule>

```

```

    <inactivity-timeout>Integer</inactivity-timeout>
    <persistent-nat-type>NONE</persistent-nat-type>
    <persistent-nat-type>ANY_REMOTE_HOST</persistent-nat-type>
    <persistent-nat-type>TARGET_HOST</persistent-nat-type>
    <persistent-nat-type>TARGET_HOST_PORT</persistent-nat-type>
  </persistent-nat-setting>
  <mapped-port>String</mapped-port>
  <egress-interface>
    <egress-interface>String</egress-interface>
    <totalSize>Integer</totalSize>
  </egress-interface>
  <translated-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>
  </translated-address>
  <routing-instance-name>String</routing-instance-name>
  <proxy-arp-enabled>Boolean</proxy-arp-enabled>
  <pool-addresses>
    <id>Integer</id>
    <name>String</name>
  </pool-addresses>
</translated-packet>
<id>Integer</id>
<description>String</description>
<name>String</name>
<services>
  <service-reference>
    <id>Integer</id>
    <name>String</name>
    <is-group>Boolean</is-group>
  </service-reference>
</services>
<nat-type>STATIC</nat-type>
<nat-type>SOURCE</nat-type>
<nat-type>DESTINATION</nat-type>
<original-packet>
  <src-port-sets>
    <reference>
      <id>Integer</id>
      <name>String</name>
    </reference>
    <totalSize>Integer</totalSize>
  </src-port-sets>
  <protocol>
    <protocol-data>
      <id>Integer</id>

```

```

        <name>String</name>
        <value>String</value>
    </protocol-data>
    <totalSize>Integer</totalSize>
</protocol>
<src-zone-sets>
    <reference>
        <id>Integer</id>
        <name>String</name>
    </reference>
    <totalSize>Integer</totalSize>
</src-zone-sets>
<src-traffic-match-type>Zone</src-traffic-match-type>
<src-traffic-match-type>Interface</src-traffic-match-type>
<src-traffic-match-type>Routing Instance</src-traffic-match-type>
<src-address>
    <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>
    <totalSize>Integer</totalSize>
</src-address>
<dst-address>
    <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>
    <totalSize>Integer</totalSize>
</dst-address>
<src-traffic-match-value>
    <src-traffic-match-value>String</src-traffic-match-value>
    <totalSize>Integer</totalSize>

```

```

</src-traffic-match-value>
<dst-ports>String</dst-ports>
<proxy-arp-entry>
  <is-overridden>Boolean</is-overridden>
  <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>
  </address>
  <state>NEW</state>
  <state>MODIFY</state>
  <state>DELETED</state>
  <state>NOCHANGE</state>
  <intf-value>String</intf-value>
  <recommended-intf-value>String</recommended-intf-value>
  <range-ip>String</range-ip>
</proxy-arp-entry>
<proxy-arp-enabled>Boolean</proxy-arp-enabled>
<dst-traffic-match-type>Zone</dst-traffic-match-type>
<dst-traffic-match-type>Interface</dst-traffic-match-type>
<dst-traffic-match-type>Routing Instance</dst-traffic-match-type>
<src-ports>String</src-ports>
<dst-traffic-match-value>
  <dst-traffic-match-value>String</dst-traffic-match-value>
  <totalSize>Integer</totalSize>
</dst-traffic-match-value>
<dst-zone-sets>
  <reference>
    <id>Integer</id>
    <name>String</name>
  </reference>
  <totalSize>Integer</totalSize>
</dst-zone-sets>
<dst-port-sets>
  <reference>
    <id>Integer</id>
    <name>String</name>
  </reference>
  <totalSize>Integer</totalSize>
</dst-port-sets>
</original-packet>
<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>

```

</rule>

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" : {
            "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" ],
            "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" : {
        "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" ]
    },
    "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" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean",
        "uri" : "String"
    } ],
    "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" : [ {
            "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" ],
            "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
    },
    "dst-address" : {
        "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" ],
            "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" : {
            "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" ],
            "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",
  "rule-order" : "Integer",
  "uri" : "String"
}
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <version>Integer</version>
  <created-time>Date</created-time>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <edit-version>Integer</edit-version>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-time>Date</last-modified-time>
  <rule-group-type>CUSTOM</rule-group-type>
  <rule-group-type>ZONE</rule-group-type>
  <rule-group-type>GLOBAL</rule-group-type>
  <translated-packet>
    <poxy-arp-entries>
      <arp-entry>
        <is-overridden>Boolean</is-overridden>
        <address>
          <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>
    <uri>String</uri>
  </address>
  <intf-value>String</intf-value>
  <state>NEW</state>
  <state>MODIFY</state>
  <state>DELETED</state>
  <state>NOCHANGE</state>
  <recommended-intf-value>String</recommended-intf-value>
  <range-ip>String</range-ip>
  <uri>String</uri>
</arp-entry>
<uri>String</uri>
<totalSize>Integer</totalSize>
</poxy-arp-entries>
<translated-traffic-match-type>NO_TRANSLATION</translated-traffic-match-type>
<translated-traffic-match-type>INTERFACE</translated-traffic-match-type>
<translated-traffic-match-type>POOL</translated-traffic-match-type>
<translated-traffic-match-type>INET</translated-traffic-match-type>
<translated-traffic-match-type>PREFIX</translated-traffic-match-type>
<persistent-nat-setting>
  <address-mapping>Boolean</address-mapping>
  <max_session_number>Integer</max_session_number>
  <inactivity-timeout>Integer</inactivity-timeout>
  <uri>String</uri>
  <persistent-nat-type>NONE</persistent-nat-type>
  <persistent-nat-type>ANY_REMOTE_HOST</persistent-nat-type>
  <persistent-nat-type>TARGET_HOST</persistent-nat-type>
  <persistent-nat-type>TARGET_HOST_PORT</persistent-nat-type>
</persistent-nat-setting>
<mapped-port>String</mapped-port>
<egress-interface>
  <egress-interface>String</egress-interface>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</egress-interface>
<translated-address>
  <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>

```

```

</translated-address>
<routing-instance-name>String</routing-instance-name>
<proxy-arp-enabled>Boolean</proxy-arp-enabled>
<pool-addresses>
  <id>Integer</id>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <uri>String</uri>
</pool-addresses>
<uri>String</uri>
</translated-packet>
<id>Integer</id>
<description>String</description>
<name>String</name>
<services>
  <service-reference>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <is-group>Boolean</is-group>
    <uri>String</uri>
  </service-reference>
  <uri>String</uri>
</services>
<nat-type>STATIC</nat-type>
<nat-type>SOURCE</nat-type>
<nat-type>DESTINATION</nat-type>
<original-packet>
  <src-port-sets>
    <reference>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
    </reference>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </src-port-sets>
  <protocol>
    <protocol-data>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <value>String</value>
      <uri>String</uri>
    </protocol-data>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </protocol>
  <src-zone-sets>
    <reference>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
    </reference>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </src-zone-sets>
</src-traffic-match-type>Zone</src-traffic-match-type>

```

```

<src-traffic-match-type>Interface</src-traffic-match-type>
<src-traffic-match-type>Routing Instance</src-traffic-match-type>
<src-address>
  <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>
    <uri>String</uri>
  </address-reference>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</src-address>
<dst-address>
  <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>
    <uri>String</uri>
  </address-reference>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</dst-address>
<src-traffic-match-value>
  <src-traffic-match-value>String</src-traffic-match-value>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</src-traffic-match-value>
<dst-ports>String</dst-ports>
<proxy-arp-entry>
  <is-overridden>Boolean</is-overridden>
  <address>
    <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>
    <uri>String</uri>
  </address>
  <state>NEW</state>
  <state>MODIFY</state>
  <state>DELETED</state>
  <state>NOCHANGE</state>
  <intf-value>String</intf-value>
  <recommended-intf-value>String</recommended-intf-value>
  <range-ip>String</range-ip>
  <uri>String</uri>
</proxy-arp-entry>
<proxy-arp-enabled>Boolean</proxy-arp-enabled>
<dst-traffic-match-type>Zone</dst-traffic-match-type>
<dst-traffic-match-type>Interface</dst-traffic-match-type>
<dst-traffic-match-type>Routing Instance</dst-traffic-match-type>
<src-ports>String</src-ports>
<uri>String</uri>
<dst-traffic-match-value>
  <dst-traffic-match-value>String</dst-traffic-match-value>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</dst-traffic-match-value>
<dst-zone-sets>
  <reference>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
  </reference>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</dst-zone-sets>
<dst-port-sets>
  <reference>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
  </reference>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</dst-port-sets>
</original-packet>
<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>
<uri>String</uri>
</rule>
```

## 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:

```
{
  "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" : "Integer",
      "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",
      "detail-link" : {
        "name" : "String",
        "uri" : "String"
      },
      "level2-desc" : "String",
      "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>Integer</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>
<detail-link>
  <name>String</name>
  <uri>String</uri>
</detail-link>
<level2-desc>String</level2-desc>
<retry-group-id>Integer</retry-group-id>
<job-params-summary>String</job-params-summary>
<complete-time>Integer</complete-time>
<user>String</user>
<uri>String</uri>
</monitorable-task-instance-managed-object>
<uri>String</uri>
<totalSize>Integer</totalSize>
</monitorable-task-instances>

```

## Assign Devices to the NAT Policy

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

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>
```

## 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" : {
    "id" : "Integer",
    "edit-version" : "Integer",
    "version" : "Integer",
    "policy-position" : [ "DEVICE", "PRE", "POST" ],
    "description" : "String",
    "name" : "String",
    "policy-order" : "Float",
    "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"
  }
}
```

Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <version>Integer</version>
  <policy-position>DEVICE</policy-position>
  <policy-position>PRE</policy-position>
  <policy-position>POST</policy-position>
  <description>String</description>
  <name>String</name>
  <policy-order>Float</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>
  <publish-state>Not Published</publish-state>
  <publish-state>Partially Published</publish-state>
  <publish-state>Published</publish-state>
  <publish-state>Re-Publish Required</publish-state>
</policy>
```

```
<publish-state>Deleted</publish-state>
<enable-auto-arp>Boolean</enable-auto-arp>
<proxy-arp-managed>Boolean</proxy-arp-managed>
</policy>
```

## Sample JSON Output:

```
{
  "policy" : {
    "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",
    "policy-position" : [ "DEVICE", "PRE", "POST" ],
    "description" : "String",
    "name" : "String",
    "policy-order" : "Float",
    "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"
  }
}
```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <id>Integer</id>
  <domain-id>Integer</domain-id>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <created-time>Date</created-time>
  <edit-version>Integer</edit-version>
  <version>Integer</version>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-time>Date</last-modified-time>
  <policy-position>DEVICE</policy-position>
  <policy-position>PRE</policy-position>
  <policy-position>POST</policy-position>
  <description>String</description>
  <name>String</name>
  <policy-order>Float</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>
  <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>
</policy>
```

## 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" : {
            "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" ]
          },
          "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" : {
        "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" ]
    },
    "routing-instance-name" : "String",
    "proxy-arp-enabled" : "Boolean",
    "pool-addresses" : {
        "id" : "Integer",
        "name" : "String"
    }
},
"id" : "Integer",
"description" : "String",
"name" : "String",
"services" : {
    "service-reference" : [ {
        "id" : "Integer",
        "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" : [ {
      "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" ]
    } ],
    "totalSize" : "Integer"
  },
  "dst-address" : {
    "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" ]
    } ],
    "totalSize" : "Integer"
  },
  "src-traffic-match-value" : {
    "src-traffic-match-value" : [ "String" ],
    "totalSize" : "Integer"
  },
  "dst-ports" : "String",
  "proxy-arp-entry" : {
    "is-overridden" : "Boolean",
    "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" ]
    },
    "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",
"rule-order" : "Integer"
}
}

```

## Sample XML Input

```

<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <version>Integer</version>
  <edit-version>Integer</edit-version>
  <rule-group-type>CUSTOM</rule-group-type>
  <rule-group-type>ZONE</rule-group-type>
  <rule-group-type>GLOBAL</rule-group-type>
  <translated-packet>
    <poxy-arp-entries>
      <arp-entry>
        <is-overridden>Boolean</is-overridden>
        <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>
        </address>
        <intf-value>String</intf-value>
        <state>NEW</state>
        <state>MODIFY</state>
        <state>DELETED</state>
        <state>NOCHANGE</state>
        <recommended-intf-value>String</recommended-intf-value>
        <range-ip>String</range-ip>
      </arp-entry>
      <totalSize>Integer</totalSize>
    </poxy-arp-entries>
    <translated-traffic-match-type>NO_TRANSLATION</translated-traffic-match-type>
    <translated-traffic-match-type>INTERFACE</translated-traffic-match-type>
    <translated-traffic-match-type>POOL</translated-traffic-match-type>
    <translated-traffic-match-type>INET</translated-traffic-match-type>
    <translated-traffic-match-type>PREFIX</translated-traffic-match-type>
    <persistent-nat-setting>
      <address-mapping>Boolean</address-mapping>
      <max_session_number>Integer</max_session_number>
    </persistent-nat-setting>
  </translated-packet>
</rule>

```

```

    <inactivity-timeout>Integer</inactivity-timeout>
    <persistent-nat-type>NONE</persistent-nat-type>
    <persistent-nat-type>ANY_REMOTE_HOST</persistent-nat-type>
    <persistent-nat-type>TARGET_HOST</persistent-nat-type>
    <persistent-nat-type>TARGET_HOST_PORT</persistent-nat-type>
  </persistent-nat-setting>
  <mapped-port>String</mapped-port>
  <egress-interface>
    <egress-interface>String</egress-interface>
    <totalSize>Integer</totalSize>
  </egress-interface>
  <translated-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>
  </translated-address>
  <routing-instance-name>String</routing-instance-name>
  <proxy-arp-enabled>Boolean</proxy-arp-enabled>
  <pool-addresses>
    <id>Integer</id>
    <name>String</name>
  </pool-addresses>
</translated-packet>
<id>Integer</id>
<description>String</description>
<name>String</name>
<services>
  <service-reference>
    <id>Integer</id>
    <name>String</name>
    <is-group>Boolean</is-group>
  </service-reference>
</services>
<nat-type>STATIC</nat-type>
<nat-type>SOURCE</nat-type>
<nat-type>DESTINATION</nat-type>
<original-packet>
  <src-port-sets>
    <reference>
      <id>Integer</id>
      <name>String</name>
    </reference>
    <totalSize>Integer</totalSize>
  </src-port-sets>
  <protocol>
    <protocol-data>
      <id>Integer</id>

```

```

        <name>String</name>
        <value>String</value>
    </protocol-data>
    <totalSize>Integer</totalSize>
</protocol>
<src-zone-sets>
    <reference>
        <id>Integer</id>
        <name>String</name>
    </reference>
    <totalSize>Integer</totalSize>
</src-zone-sets>
<src-traffic-match-type>Zone</src-traffic-match-type>
<src-traffic-match-type>Interface</src-traffic-match-type>
<src-traffic-match-type>Routing Instance</src-traffic-match-type>
<src-address>
    <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>
    <totalSize>Integer</totalSize>
</src-address>
<dst-address>
    <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>
    <totalSize>Integer</totalSize>
</dst-address>
<src-traffic-match-value>
    <src-traffic-match-value>String</src-traffic-match-value>
    <totalSize>Integer</totalSize>

```

```

</src-traffic-match-value>
<dst-ports>String</dst-ports>
<proxy-arp-entry>
  <is-overridden>Boolean</is-overridden>
  <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>
  </address>
  <state>NEW</state>
  <state>MODIFY</state>
  <state>DELETED</state>
  <state>NOCHANGE</state>
  <intf-value>String</intf-value>
  <recommended-intf-value>String</recommended-intf-value>
  <range-ip>String</range-ip>
</proxy-arp-entry>
<proxy-arp-enabled>Boolean</proxy-arp-enabled>
<dst-traffic-match-type>Zone</dst-traffic-match-type>
<dst-traffic-match-type>Interface</dst-traffic-match-type>
<dst-traffic-match-type>Routing Instance</dst-traffic-match-type>
<src-ports>String</src-ports>
<dst-traffic-match-value>
  <dst-traffic-match-value>String</dst-traffic-match-value>
  <totalSize>Integer</totalSize>
</dst-traffic-match-value>
<dst-zone-sets>
  <reference>
    <id>Integer</id>
    <name>String</name>
  </reference>
  <totalSize>Integer</totalSize>
</dst-zone-sets>
<dst-port-sets>
  <reference>
    <id>Integer</id>
    <name>String</name>
  </reference>
  <totalSize>Integer</totalSize>
</dst-port-sets>
</original-packet>
<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>

```

</rule>

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" : {
            "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" ],
            "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" : {
        "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" ]
    },
    "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" : "Integer",
        "domain-id" : "Integer",
        "name" : "String",
        "is-group" : "Boolean",
        "uri" : "String"
    } ],
    "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" : [ {
            "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" ],
            "uri" : "String"
        } ],
        "uri" : "String",
        "totalSize" : "Integer"
    },
    "dst-address" : {
        "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" ],
            "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" : {
            "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" ],
            "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",
  "rule-order" : "Integer",
  "uri" : "String"
}
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <version>Integer</version>
  <created-time>Date</created-time>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <edit-version>Integer</edit-version>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-time>Date</last-modified-time>
  <rule-group-type>CUSTOM</rule-group-type>
  <rule-group-type>ZONE</rule-group-type>
  <rule-group-type>GLOBAL</rule-group-type>
  <translated-packet>
    <poxy-arp-entries>
      <arp-entry>
        <is-overridden>Boolean</is-overridden>
        <address>
          <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>
    <uri>String</uri>
  </address>
  <intf-value>String</intf-value>
  <state>NEW</state>
  <state>MODIFY</state>
  <state>DELETED</state>
  <state>NOCHANGE</state>
  <recommended-intf-value>String</recommended-intf-value>
  <range-ip>String</range-ip>
  <uri>String</uri>
</arp-entry>
<uri>String</uri>
<totalSize>Integer</totalSize>
</poxy-arp-entries>
<translated-traffic-match-type>NO_TRANSLATION</translated-traffic-match-type>
<translated-traffic-match-type>INTERFACE</translated-traffic-match-type>
<translated-traffic-match-type>POOL</translated-traffic-match-type>
<translated-traffic-match-type>INET</translated-traffic-match-type>
<translated-traffic-match-type>PREFIX</translated-traffic-match-type>
<persistent-nat-setting>
  <address-mapping>Boolean</address-mapping>
  <max_session_number>Integer</max_session_number>
  <inactivity-timeout>Integer</inactivity-timeout>
  <uri>String</uri>
  <persistent-nat-type>NONE</persistent-nat-type>
  <persistent-nat-type>ANY_REMOTE_HOST</persistent-nat-type>
  <persistent-nat-type>TARGET_HOST</persistent-nat-type>
  <persistent-nat-type>TARGET_HOST_PORT</persistent-nat-type>
</persistent-nat-setting>
<mapped-port>String</mapped-port>
<egress-interface>
  <egress-interface>String</egress-interface>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</egress-interface>
<translated-address>
  <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>

```

```

</translated-address>
<routing-instance-name>String</routing-instance-name>
<proxy-arp-enabled>Boolean</proxy-arp-enabled>
<pool-addresses>
  <id>Integer</id>
  <name>String</name>
  <domain-id>Integer</domain-id>
  <uri>String</uri>
</pool-addresses>
<uri>String</uri>
</translated-packet>
<id>Integer</id>
<description>String</description>
<name>String</name>
<services>
  <service-reference>
    <id>Integer</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <is-group>Boolean</is-group>
    <uri>String</uri>
  </service-reference>
  <uri>String</uri>
</services>
<nat-type>STATIC</nat-type>
<nat-type>SOURCE</nat-type>
<nat-type>DESTINATION</nat-type>
<original-packet>
  <src-port-sets>
    <reference>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
    </reference>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </src-port-sets>
  <protocol>
    <protocol-data>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <value>String</value>
      <uri>String</uri>
    </protocol-data>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </protocol>
  <src-zone-sets>
    <reference>
      <id>Integer</id>
      <name>String</name>
      <domain-id>Integer</domain-id>
      <uri>String</uri>
    </reference>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </src-zone-sets>
  <src-traffic-match-type>Zone</src-traffic-match-type>

```

```

<src-traffic-match-type>Interface</src-traffic-match-type>
<src-traffic-match-type>Routing Instance</src-traffic-match-type>
<src-address>
  <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>
    <uri>String</uri>
  </address-reference>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</src-address>
<dst-address>
  <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>
    <uri>String</uri>
  </address-reference>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</dst-address>
<src-traffic-match-value>
  <src-traffic-match-value>String</src-traffic-match-value>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</src-traffic-match-value>
<dst-ports>String</dst-ports>
<proxy-arp-entry>
  <is-overridden>Boolean</is-overridden>
  <address>
    <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>
    <uri>String</uri>
  </address>
  <state>NEW</state>
  <state>MODIFY</state>
  <state>DELETED</state>
  <state>NOCHANGE</state>
  <intf-value>String</intf-value>
  <recommended-intf-value>String</recommended-intf-value>
  <range-ip>String</range-ip>
  <uri>String</uri>
</proxy-arp-entry>
<proxy-arp-enabled>Boolean</proxy-arp-enabled>
<dst-traffic-match-type>Zone</dst-traffic-match-type>
<dst-traffic-match-type>Interface</dst-traffic-match-type>
<dst-traffic-match-type>Routing Instance</dst-traffic-match-type>
<src-ports>String</src-ports>
<uri>String</uri>
<dst-traffic-match-value>
  <dst-traffic-match-value>String</dst-traffic-match-value>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</dst-traffic-match-value>
<dst-zone-sets>
  <reference>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
  </reference>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</dst-zone-sets>
<dst-port-sets>
  <reference>
    <id>Integer</id>
    <name>String</name>
    <domain-id>Integer</domain-id>
    <uri>String</uri>
  </reference>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</dst-port-sets>
</original-packet>
<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>
<uri>String</uri>
</rule>
```

## 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": {
    "id": "Integer",
    "edit-version": "Integer",
    "version": "Integer",
    "policy-position": [ "DEVICE", "PRE", "POST" ],
    "description": "String",
    "name": "String",
    "policy-order": "Float",
    "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"
  }
}
```

## Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <id>Integer</id>
  <edit-version>Integer</edit-version>
  <version>Integer</version>
  <policy-position>DEVICE</policy-position>
  <policy-position>PRE</policy-position>
  <policy-position>POST</policy-position>
  <description>String</description>
  <name>String</name>
  <policy-order>Float</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>
  <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>
</policy>
```

## Sample JSON Output:

```
{
  "policy" : {
    "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",
    "policy-position" : [ "DEVICE", "PRE", "POST" ],
    "description" : "String",
    "name" : "String",
    "policy-order" : "Float",
    "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"
  }
}
```

## Sample XML Output:

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

```
<policy-position>DEVICE</policy-position>
<policy-position>PRE</policy-position>
<policy-position>POST</policy-position>
<description>String</description>
<name>String</name>
<policy-order>Float</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>
<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>
</policy>
```

## 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

## CHAPTER 3

### IPS Policy Management RESTful Web Services

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

#### 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" : [ {
      "created-by-user-name" : "String",
      "last-modified-time" : "Date",
      "version" : "Integer",
      "sequence-number" : "Integer",
      "locked-for-edit" : "Boolean",
      "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" : "Float",
  "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"
} ],
"uri" : "String",
"totalSize" : "Integer"
}
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<policies>
  <policy>
    <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>
    <policy-position>DEVICE</policy-position>
    <policy-position>PRE</policy-position>
    <policy-position>POST</policy-position>
    <id>Integer</id>
    <rule-count>Integer</rule-count>
    <ips-policy-type>SIGNATURESET</ips-policy-type>
    <ips-policy-type>IPSBASIC</ips-policy-type>
    <ips-policy-type>IPSADVANCED</ips-policy-type>
    <ips-policy-type>NONE</ips-policy-type>
    <ips-policy-type>NOT_CONFIGURED</ips-policy-type>
    <device-count>Integer</device-count>
    <device-list>
      <devices>
        <id>Integer</id>
        <name>String</name>
        <domain-id>Integer</domain-id>
        <uri>String</uri>
      </devices>
      <uri>String</uri>
    </device-list>
    <description>String</description>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <edit-version>Integer</edit-version>
  </policy>
</policies>

```

```
<created-time>Date</created-time>
<policy-order>Float</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>
<uri>String</uri>
<totalSize>Integer</totalSize>
</policies>
```

## Get IPS Policy By ID

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

URI	/api/juniper/sd/policy-management/ips/policies/{policy-id}
HTTP method	GET
Content-Type	None
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" : {
    "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" : "Float",
"policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
"uri" : "String",
"publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
"last-modified-by-user-name" : "String"
}
}

```

## Sample XML Output:

```

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

## 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",
    "edit-version" : "Integer",
    "source-address" : {
      "exclude-list" : "Boolean",
      "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" ],
          "uri" : "String"
        } ],
        "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" : [ {
        "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" ],
        "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" ],
    "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" ],
    "resolved" : "Boolean",
    "domain-id" : "Integer",
    "name" : "String",
    "default-value" : "String",
    "uri" : "String"
  }
}
}
}

```

#### Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <disabled>Boolean</disabled>
  <edit-version>Integer</edit-version>
  <source-address>
    <exclude-list>Boolean</exclude-list>
    <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>
        <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>
        <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>
        <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>
  <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>
  <resolved>Boolean</resolved>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <default-value>String</default-value>
  <uri>String</uri>
</source-zone>
</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
-------------	---

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>
```

## 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:

```
{
  "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" : "Integer",
      "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",
        "detail-link" : {
            "name" : "String",
            "uri" : "String"
        },
        "level2-desc" : "String",
        "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>Integer</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>
  
```

```
<detail-link>
  <name>String</name>
  <uri>String</uri>
</detail-link>
<level2-desc>String</level2-desc>
<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>
```

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

## Sample XML Input

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



## Sample JSON Output:

```
{
  "policy" : {
    "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" : "Float",
  "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
  "uri" : "String",
  "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
  "last-modified-by-user-name" : "String"
}
```

## Sample XML Output:

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

## 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",
    "edit-version" : "Integer",
    "source-address" : {
      "exclude-list" : "Boolean",
      "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" ]
    } ]
  }
},
"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" : [ {
      "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" ]
    } ]
  }
},
"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" ],
  "resolved" : "Boolean",

```

```

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

```

## Sample XML Input

```

<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <disabled>Boolean</disabled>
  <edit-version>Integer</edit-version>
  <source-address>
    <exclude-list>Boolean</exclude-list>
    <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>
    </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>
</rule>

```

```

    </reference>
  </attacks>
  <policy-id>Integer</policy-id>
  <destination-address>
    <exclude-list>Boolean</exclude-list>
    <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>
    </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>
    <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>
<resolved>Boolean</resolved>
<name>String</name>
<default-value>String</default-value>
</source-zone>
</rule>
```

Sample JSON Output:

```
{
  "rule" : {
    "disabled" : "Boolean",
    "edit-version" : "Integer",
    "source-address" : {
      "exclude-list" : "Boolean",
      "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" ],
          "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" : [ {
```

```

        "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" ],
        "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" ],
    "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" ],
    "resolved" : "Boolean",
    "domain-id" : "Integer",
    "name" : "String",
    "default-value" : "String",
    "uri" : "String"
}
}
}

```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <disabled>Boolean</disabled>
  <edit-version>Integer</edit-version>
  <source-address>
    <exclude-list>Boolean</exclude-list>
    <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>
        <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>
      <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>
      <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>
  <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>
  <resolved>Boolean</resolved>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <default-value>String</default-value>
  <uri>String</uri>
</source-zone>
</rule>

```

## 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": {
    "policy-state": [ "DRAFT", "FINAL" ],
    "edit-version": "Integer",
    "ips-policy-type": [ "SIGNATURESET", "IPSBASIC", "IPSADVANCED", "NONE", "NOT_CONFIGURED"
  ],
  "signature-sets": {
    "reference": [ {
      "id": "Integer",
      "name": "String"
    } ]
  },
  "id": "Integer",
  "policy-position": [ "DEVICE", "PRE", "POST" ],

```

```

    "version" : "Integer",
    "description" : "String",
    "name" : "String",
    "policy-order" : "Float",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ]
  }
}

```

## Sample XML Input

```

<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <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>Float</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>
</policy>

```

## Sample JSON Output:

```

{
  "policy" : {
    "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" : "Float",
    "policy-type" : [ "GLOBAL", "GROUP", "DEVICE" ],
    "uri" : "String",
    "publish-state" : [ "Not Published", "Partially Published", "Published", "Re-Publish Required", "Deleted" ],
    "last-modified-by-user-name" : "String"
  }
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<policy>
  <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>IPSBASIC</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>Float</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>

```

</policy>

## 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",
    "edit-version" : "Integer",
    "source-address" : {
      "exclude-list" : "Boolean",
      "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" ]
        } ]
      }
    },
    "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" : [ {
                "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" ]
            } ]
        }
    },
    "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" ],
        "resolved" : "Boolean",
        "name" : "String",
        "default-value" : "String"
    },
    "description" : "String",
    "source-zone" : {
        "id" : "Integer",
        "zone-type" : [ "POLYMORPHIC", "ZONE", "ZONESET" ],
        "resolved" : "Boolean",
        "name" : "String",
        "default-value" : "String"
    }

```

```
}
}
}
```

## Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <disabled>Boolean</disabled>
  <edit-version>Integer</edit-version>
  <source-address>
    <exclude-list>Boolean</exclude-list>
    <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>
    </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>
    <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>
</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>
  <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>
  <resolved>Boolean</resolved>
  <name>String</name>
  <default-value>String</default-value>

```



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

Sample JSON Output:

```
{
  "rule" : {
    "disabled" : "Boolean",
    "edit-version" : "Integer",
    "source-address" : {
      "exclude-list" : "Boolean",
      "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" ],
          "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" : [ {
```

```

        "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" ],
        "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" ],
    "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" ],
    "resolved" : "Boolean",
    "domain-id" : "Integer",
    "name" : "String",
    "default-value" : "String",
    "uri" : "String"
}
}
}

```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<rule>
  <disabled>Boolean</disabled>
  <edit-version>Integer</edit-version>
  <source-address>
    <exclude-list>Boolean</exclude-list>
    <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>
        <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>
      <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>
      <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>
  <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>
  <resolved>Boolean</resolved>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <default-value>String</default-value>
  <uri>String</uri>
</source-zone>
</rule>

```

## Delete IPS Policy

This request is used to delete an existing IPS policy.

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

## 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

---

## CHAPTER 4

### VPN Management RESTful Web Services

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

#### 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",
"preshaed-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>
  </tunnel>

```



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

## Get All VPNs

This request is used to get all the IPsec VPNs.

URI

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

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>
</ipsec-vpns>
<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" ],
  "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>
  <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>

```

## 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",
      "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>
    <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>
    </protected-networks>
    <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>
  <id>Integer</id>
  <uri>String</uri>
</device>
<uri>String</uri>
<totalSize>Integer</totalSize>
</devices>

```

## 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

## 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" : "Integer",
      "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",
      "detail-link" : {
        "name" : "String",
        "uri" : "String"
      }
    }
  ]
}
```

```

    },
    "level2-desc" : "String",
    "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>Integer</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>
    <detail-link>
      <name>String</name>
      <uri>String</uri>
    </detail-link>
  </monitorable-task-instance-managed-object>
</monitorable-task-instances>

```

```
<level2-desc>String</level2-desc>
<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>
```

## 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" ],
"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>
    <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" ],
      "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",
    "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"
    }
  } ],
  "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>
    <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>Integer</idle-threshold>
    </advpn-settings>
  </vpn-mo>
</modify-vpn>

```

```

        <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>
            <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>
      <preshared-key>String</preshared-key>
      <tunnel-address>String</tunnel-address>
      <tunnel-if-name>String</tunnel-if-name>
      <profile>
        <name>String</name>
        <id>Integer</id>
      </profile>
    </vpn-end-point>
    <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>
  </end-points>
</modify-tunnels>
```

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

---

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

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

```

```
<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>
<link>String</link>
</access-profile>
<uri>String</uri>
<totalSize>Integer</totalSize>
</access-profiles>
```

## 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>
    <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>
</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"
    },
    "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>
  </ldap-options>
</access-profile>

```

```

    <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>
  </device-list>
  <uri>String</uri>
  <link>String</link>
</access-profile>

```

## 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 Secuirty Director Active Directory Management RESTful Web Services

#### 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>
        <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>
    </domain>
  </domains>
</active-directory>

```

```

    <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>
    <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"
},
"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>
<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>
  </domain>
  <uri>String</uri>
  <totalSize>Integer</totalSize>
</domains>

```

```
<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>
<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>
<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-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>

```

## 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>
<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>

```

## 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>

```

## 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>
```

## 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>
```

## 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

## CHAPTER 8

### Antispam Profile Management RESTful Web Services

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

#### 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

## 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>
```

## 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>
```

## 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>
```

## 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

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

```
<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>
<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>

```

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

```

```

    <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

## 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>
```

## 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>
</app-fw-policy>
```

```
<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>
```

## 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>
```

## 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

---

## CHAPTER 11

### Application Signature Management RESTful Web Services

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

#### 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>
    </pattern-set>
  </pattern-sets>
</app-sig>

```

```

    <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>
  <uri>String</uri>
  <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>
      <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>
  </app-sig-tags>

```

```

    <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>

```

## 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>
      <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>
      </members>
    </pattern-set>
  </pattern-sets>

```

```

        <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>
  </group-nested-member>
</group-nested-members>

```

```

    <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

# Content Filtering Profile Management RESTful Web Services

The following operations can be performed using Security Director Content Filtering Profile Management RESTful Web Services

## 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"
}
}

```

## 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>ACTIVEEX</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>

```

```

</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 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" : [ "ACTIVEEX", "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>ACTIVEEX</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>ACTIVEX</block-content-type>
    <block-content-type>EXE</block-content-type>
    <block-content-type>JAVA_APPLET</block-content-type>
    <block-content-type>HTTP_COOKIE</block-content-type>

```

```

    <block-content-type>ZIP</block-content-type>
    <uri>String</uri>
  </block-content-type-list>
  <block-file-extension-list>
    <block-file-extension>String</block-file-extension>
    <uri>String</uri>
  </block-file-extension-list>
  <notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
    <uri>String</uri>
  </notification-options>
  <block-command-list>
    <block-command>String</block-command>
    <uri>String</uri>
  </block-command-list>
  <block-mime-list>
    <block-mime>String</block-mime>
    <uri>String</uri>
  </block-mime-list>
  <block-mime-exception-list>
    <block-mime-exception>String</block-mime-exception>
    <uri>String</uri>
  </block-mime-exception-list>
  <created-by-user-name>String</created-by-user-name>
  <last-modified-by-user-name>String</last-modified-by-user-name>
  <uri>String</uri>
</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" : [ "ACTIVEEX", "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>ACTIVEEX</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>ACTIVEX</block-content-type>
    <block-content-type>EXE</block-content-type>
    <block-content-type>JAVA_APPLET</block-content-type>
    <block-content-type>HTTP_COOKIE</block-content-type>
    <block-content-type>ZIP</block-content-type>
    <uri>String</uri>
  </block-content-type-list>
  <block-file-extension-list>
    <block-file-extension>String</block-file-extension>
    <uri>String</uri>
  </block-file-extension-list>
  <notification-options>
    <custom-notification-message>String</custom-notification-message>
    <notification-type>PROTOCOL</notification-type>
    <notification-type>MESSAGE</notification-type>
    <notification-type>NONE</notification-type>
    <custom-notification-subject>String</custom-notification-subject>
    <notify-mail-sender>Boolean</notify-mail-sender>
    <uri>String</uri>
  </notification-options>
  <block-command-list>
    <block-command>String</block-command>
    <uri>String</uri>
  </block-command-list>
  <block-mime-list>
    <block-mime>String</block-mime>
    <uri>String</uri>
  </block-mime-list>
  <block-mime-exception-list>
    <block-mime-exception>String</block-mime-exception>

```

```
<uri>String</uri>
</block-mime-exception-list>
<created-by-user-name>String</created-by-user-name>
<last-modified-by-user-name>String</last-modified-by-user-name>
<uri>String</uri>
</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 13

### Extranet Device Management RESTful Web Services

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

#### Get Extranet Device by ID

This request is used to get an extranet device by its ID.

URI	/api/juniper/sd/vpn-management/extranet-devices/{id}
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.vpn-management.extranet-device+xml;version=1;q=0.01 application/vnd.juniper.sd.vpn-management.extranet-device+json;version=1;q=0.01
Access-Control	manageExtranetDeviceCap

Sample JSON Output:

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

## 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

### 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>
```

## 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

## CHAPTER 14

# IPS Signature Management RESTful Web Services

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

## 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",
"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"
    },
    "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>

```



```

</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>
<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>
        <members>
            <ips-sig-attack-member>
                <anomaly-id>String</anomaly-id>
                <sig-type>String</sig-type>
                <shellcode>String</shellcode>
                <test>String</test>
            </ips-sig-attack-member>
        </members>
    </ips-sig-attack>
</attacks>

```

```

<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 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"
        }
      } ],
      "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>
      </ips-sig-attack-member>
    </members>
  </ips-sig-attack>
</attacks>

```

```

<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"
},
    "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>
  <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>
  <members>
    <ips-sig-attack-member>
      <anomaly-id>String</anomaly-id>
      <sig-type>String</sig-type>
      <shellcode>String</shellcode>
      <test>String</test>
      <direction>String</direction>
      <regex>String</regex>
      <domain-name>String</domain-name>
      <constraints>
        <ips-sig-pattern-constraint>
          <arg2>String</arg2>
          <arg1>String</arg1>
          <pattern>String</pattern>
          <constraint-type>String</constraint-type>
          <operator>String</operator>
          <other-pattern>String</other-pattern>
          <anchor>String</anchor>
          <uri>String</uri>
        </ips-sig-pattern-constraint>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </constraints>
      <flow>String</flow>
      <id>Integer</id>
      <order>String</order>
      <pattern>String</pattern>
      <domain-id>Integer</domain-id>
      <header-tests>
        <ips-sig-header-test>
          <testvalue>String</testvalue>
          <protocol>String</protocol>
          <vartype>String</vartype>
          <name>String</name>
          <testmatch>String</testmatch>
          <uri>String</uri>
        </ips-sig-header-test>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
      </header-tests>
      <context>String</context>
      <service>String</service>
      <value>String</value>
    </ips-sig-attack-member>
  </members>
</attacks>

```

```

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

```

```

<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"
  },
  "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>
    </urls>
  </references>
</ips-signature>

```

```

    <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>
  <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>
    <members>
      <ips-sig-attack-member>
        <anomaly-id>String</anomaly-id>
        <sig-type>String</sig-type>
        <shellcode>String</shellcode>
        <test>String</test>
        <direction>String</direction>
        <regex>String</regex>
        <domain-name>String</domain-name>
        <constraints>
          <ips-sig-pattern-constraint>
            <arg2>String</arg2>
            <arg1>String</arg1>
            <pattern>String</pattern>
            <constraint-type>String</constraint-type>
            <operator>String</operator>
            <other-pattern>String</other-pattern>

```

```

        <anchor>String</anchor>
        <uri>String</uri>
        </ips-sig-pattern-constraint>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
    </constraints>
    <flow>String</flow>
    <id>Integer</id>
    <order>String</order>
    <pattern>String</pattern>
    <domain-id>Integer</domain-id>
    <header-tests>
        <ips-sig-header-test>
            <testvalue>String</testvalue>
            <protocol>String</protocol>
            <vartype>String</vartype>
            <name>String</name>
            <testmatch>String</testmatch>
            <uri>String</uri>
        </ips-sig-header-test>
        <uri>String</uri>
        <totalSize>Integer</totalSize>
    </header-tests>
    <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>
</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 15

# NAT Pool Management RESTful Web Services

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

## Get All NAT Pools

This request is used to list all the NAT pools.

URI	/api/juniper/sd/nat-pool-management/nat-pools
HTTP method	GET
Content-Type	None
Accept-Type	application/vnd.juniper.sd.nat-pool-management.nat-pools+xml;version=2;q=0.02 application/vnd.juniper.sd.nat-pool-management.nat-pools+json;version=2;q=0.02
Access-Control	manageNATPool

## Sample JSON Output:

```
{
  "nat-pools" : {
    "nat-pool" : [ {
      "pool-address" : {
        "domain-name" : "String",
        "domain-id" : "Integer",
        "id" : "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>
</nat-pool>
```

```
<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>

```

## 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>
</nat-pool>
```

```

<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 16

# NAT Port Set Management RESTful Web Services

The following operations can be performed using Secuirty Director NAT Port Set Management RESTful Web Services

## 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>
```

## 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>

```

## 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	<pre>{   "port-set" : {     "edit-version" : "Integer",     "id" : "Integer",     "name" : "String",     "description" : "String",     "ports" : "String"   } }</pre>
Sample XML Input	<pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;port-set&gt;   &lt;edit-version&gt;Integer&lt;/edit-version&gt;   &lt;id&gt;Integer&lt;/id&gt;   &lt;name&gt;String&lt;/name&gt;   &lt;description&gt;String&lt;/description&gt;   &lt;ports&gt;String&lt;/ports&gt; &lt;/port-set&gt;</pre>
Sample JSON Output:	<pre>{   "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"   } }</pre>

## 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

## CHAPTER 17

### 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",
    "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>
```

## 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>
</policy-profile>
```

```
<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 18

# SSL Forward Proxy Profile Management RESTful Web Services

The following operations can be performed using Security Director SSL Forward Proxy Profile Management RESTful Web Services

## 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"
    },
    "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-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>
<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"
      } ]
    },
    "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-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <variable-id>Integer</variable-id>
    </address-reference>
  </exempted-addresses>
  <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"
    },
    "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-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>
  <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>
```

## 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

## 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"
    } ]
  },
  "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-type>ALL_IPV6</address-type>
      <address-type>DYNAMIC_ADDRESS_GROUP</address-type>
      <variable-id>Integer</variable-id>
    </address-reference>
  </exempted-addresses>
  <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"
    },
    "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-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>
  <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 19

### Scheduler Management RESTful Web Services

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

#### 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>
  </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>
</schedulers>
```

```
<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>

```

## 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>
    <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 20

### 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

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>
    <uri>String</uri>
  </protocols>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <is-group>Boolean</is-group>
  <description>String</description>
  <members>
    <member>
      <id>Integer</id>
      <name>String</name>
      <domain-name>String</domain-name>
      <description>String</description>
      <is-group>Boolean</is-group>
      <uri>String</uri>
      <link>String</link>
    </member>
    <uri>String</uri>
    <totalSize>int</totalSize>
  </members>
  <uri>String</uri>
  <link>String</link>
  <owning-system>String</owning-system>
</service>
```

## 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>
  </members>
  <totalSize>int</totalSize>
</service>

```

```
</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>
    <uri>String</uri>
  </protocols>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <is-group>Boolean</is-group>
  <description>String</description>
  <members>
    <member>
      <id>Integer</id>
      <name>String</name>
      <domain-name>String</domain-name>
      <description>String</description>
      <is-group>Boolean</is-group>
      <uri>String</uri>
    </member>
  </members>
</service>

```

```

    <link>String</link>
  </member>
  <uri>String</uri>
  <totalSize>int</totalSize>
</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;q=0.01 application/vnd.juniper.sd.service-management.service+json;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>
  </members>
</service>

```

```
<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>
    <uri>String</uri>
  </protocols>
  <edit-version>Integer</edit-version>
  <domain-name>String</domain-name>
  <domain-id>Integer</domain-id>
  <name>String</name>
  <is-group>Boolean</is-group>
  <description>String</description>
  <members>
    <member>
      <id>Integer</id>
      <name>String</name>
      <domain-name>String</domain-name>
      <description>String</description>
      <is-group>Boolean</is-group>
      <uri>String</uri>
```

```

    <link>String</link>
  </member>
</uri>String</uri>
<totalSize>int</totalSize>
</members>
<uri>String</uri>
<link>String</link>
<owning-system>String</owning-system>
</service>

```

## 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 21

# URL Category Management RESTful Web Services

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

## 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



### 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>
```

## 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>
```

## 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 22

# URL Pattern Management RESTful Web Services

The following operations can be performed using Secuirty Director URL Pattern Management RESTful Web Services

## 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>
```

## 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>
</url-pattern>
```

```

</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 23

# UTM Device Profile Management RESTful Web Services

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

## 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>
<uri>String</uri>
</as-address-white-list>
<as-address-black-list>
  <name>String</name>
  <id>Integer</id>
  <link>String</link>
  <uri>String</uri>
</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>

```

## 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>
  </devices>
  <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>

```

## 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 24

# UTM Policy Management RESTful Web Services

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

## 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/>
  </anti-virus-profiles>
</utm-policy>

```

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

```



```
<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>
```

## 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>
```

## 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 25

# VPN Profile Management RESTful Web Services

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

## 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" ],
      "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",
"dffbit" : [ "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" ],
    "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" ],
    "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>
    <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>
      </phase2-proposal>
    </custom-phase2-proposals>
  </phase2-setting>
</vpn-profile>

```

```

    <encryption-algorithm>AES(256)</encryption-algorithm>
    <encryption-algorithm>AES-GCM(128)</encryption-algorithm>
    <encryption-algorithm>AES-GCM(192)</encryption-algorithm>
    <encryption-algorithm>AES-GCM(256)</encryption-algorithm>
    <encryption-algorithm>None</encryption-algorithm>
    <lifetime>Long</lifetime>
    <life-size>Long</life-size>
    <moid>String</moid>
    <global>String</global>
    <edit-version>Integer</edit-version>
    <version>int</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-id>int</domain-id>
    <id>int</id>
    <uri>String</uri>
  </phase2-proposal>
  <uri>String</uri>
</custom-phase2-proposals>
<idle-time>Long</idle-time>
<install-time>Integer</install-time>
<dfbit>None</dfbit>
<dfbit>Clear</dfbit>
<dfbit>Set</dfbit>
<dfbit>Copy</dfbit>
<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>
  <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>
<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>
</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>

```

## 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" ],
      "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" ],
      "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" ],
      "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>
  <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>
    </phase2-proposal>
  </custom-phase2-proposals>

```



```

    <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>
<dflbit>None</dflbit>
<dflbit>Clear</dflbit>
<dflbit>Set</dflbit>
<dflbit>Copy</dflbit>
<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>
  <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>
</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" ],

```

```

"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" ],
  "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" ],
  "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>
    <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>
      </phase2-proposal>
    </custom-phase2-proposals>
  </phase2-setting>
</vpn-profile>

```

```

<dh-group>Group20</dh-group>
<dh-group>Group24</dh-group>
<encryption-algorithm>DES</encryption-algorithm>
<encryption-algorithm>3DES</encryption-algorithm>
<encryption-algorithm>AES(128)</encryption-algorithm>
<encryption-algorithm>AES(192)</encryption-algorithm>
<encryption-algorithm>AES(256)</encryption-algorithm>
<encryption-algorithm>AES-GCM(128)</encryption-algorithm>
<encryption-algorithm>AES-GCM(192)</encryption-algorithm>
<encryption-algorithm>AES-GCM(256)</encryption-algorithm>
<encryption-algorithm>None</encryption-algorithm>
<lifetime>Long</lifetime>
<life-size>Long</life-size>
<moid>String</moid>
<global>String</global>
<edit-version>Integer</edit-version>
<version>int</version>
<definition-type>Hidden</definition-type>
<definition-type>Predefined</definition-type>
<definition-type>Custom</definition-type>
<definition-type>All</definition-type>
<created-by-user-name>String</created-by-user-name>
<last-modified-by-user-name>String</last-modified-by-user-name>
<domain-id>int</domain-id>
<id>int</id>
<uri>String</uri>
</phase2-proposal>
<uri>String</uri>
</custom-phase2-proposals>
<idle-time>Long</idle-time>
<install-time>Integer</install-time>
<dffbit>None</dffbit>
<dffbit>Clear</dffbit>
<dffbit>Set</dffbit>
<dffbit>Copy</dffbit>
<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>
<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>
<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>
</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>
```

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

```

        <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>
    <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>
<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>
    </phase1-proposal>
</custom-phase1-proposals>

```

```

<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" ],
      "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",
"dflbit" : [ "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" ],
    "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" ],
    "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>
    <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>
      </phase2-proposal>
    </custom-phase2-proposals>
  </phase2-setting>

```

```

    <encryption-algorithm>AES(256)</encryption-algorithm>
    <encryption-algorithm>AES-GCM(128)</encryption-algorithm>
    <encryption-algorithm>AES-GCM(192)</encryption-algorithm>
    <encryption-algorithm>AES-GCM(256)</encryption-algorithm>
    <encryption-algorithm>None</encryption-algorithm>
    <lifetime>Long</lifetime>
    <life-size>Long</life-size>
    <moid>String</moid>
    <global>String</global>
    <edit-version>Integer</edit-version>
    <version>int</version>
    <definition-type>Hidden</definition-type>
    <definition-type>Predefined</definition-type>
    <definition-type>Custom</definition-type>
    <definition-type>All</definition-type>
    <created-by-user-name>String</created-by-user-name>
    <last-modified-by-user-name>String</last-modified-by-user-name>
    <domain-id>int</domain-id>
    <id>int</id>
    <uri>String</uri>
  </phase2-proposal>
  <uri>String</uri>
</custom-phase2-proposals>
<idle-time>Long</idle-time>
<install-time>Integer</install-time>
<dfbit>None</dfbit>
<dfbit>Clear</dfbit>
<dfbit>Set</dfbit>
<dfbit>Copy</dfbit>
<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>
  <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>
<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>
</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>

```

## 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



## CHAPTER 26

### Variable Management RESTful Web Services

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

#### 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>
```

## 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>
```

## 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", "Predefined", "Custom", "All" ]</definition-type>
  <type>[ "STRING", "IPSTRING", "ADDRESS", "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>
```

```

</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>
    <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>
```

## 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>
      <uri>String</uri>
    </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>

```

## 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

## CHAPTER 27

# Web Filtering Profile Management RESTful Web Services

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

## 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>
  </url-category-action-list>
  <reputation-action>
    <moderately-safe>[ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ]</moderately-safe>
    <harmful>[ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ]</harmful>
    <suspicious>[ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ]</suspicious>
    <very-safe>[ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ]</very-safe>
    <fairly-safe>[ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ]</fairly-safe>
    <uri>String</uri>
  </reputation-action>
  <default-action>[ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "QUARANTINE", "NONE" ]</default-action>
  <sockets>Integer</sockets>
  <fallback-default-action>[ "PERMIT", "LOG_AND_PERMIT", "BLOCK", "NONE" ]</fallback-default-action>
  <profile-type>[ "WEBSense", "SURF_CONTROL", "LOCAL", "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>

```

```

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

```

## 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>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>
</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" : [ "WEBSSENSE", "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>
    <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-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 28

### Zone Set Management RESTful Web Services

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

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

## 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" ],  
                             "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>  
                             <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" ],  
                             "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>
  <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" ],
    "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>
  <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" ],
    "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>
  <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 29

### Event Management RESTful Web Services

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

#### 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

---

Sample JSON Output: {}

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

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

---

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

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

## 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"
}
```

## 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>
</request>
```

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

---



## 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"
  }
}
```

## 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>
</request>
```

```

</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>
</request>

```

Sample JSON Output:

```

{
  "type" : "String"
}

```

Sample XML Output:

```

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

```

## 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

---

## 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"
  }
}
```

## 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>
</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

---

## 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"
}
```

## 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>
</request>
```

Sample JSON Output:    { }

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

## Get Aggregated Logs

This request is used 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

## 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"
}
```

## 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>
</request>
```

Sample JSON Output: {}

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



## CHAPTER 30

# Report Management RESTful Web Services

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

## 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" ],
      "id": "String",
      "domain-id": "Integer",
      "name": "String",
      "domain-name": "String",
      "report-content-type": [ "LOG", "POLICY_ANOMALY", "BANDWIDTH" ],
      "uri": "String",
      "link": "String",
      "job-id": "Integer",
      "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", "GEOMAP", "LOGEVENT",
    "LOGCOLUMN", "GRID", "TIMEGRID", "BAR" ],
  "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" : [ "SHADOWED", "REDUNDANT", "GENERALIZED", "UNUSED_RULES",
      "EXPIRED_SCHEDULER", "LOGGING_DISABLED" ],
    "uri" : "String",
    "totalSize" : "Integer"
  },
  "device-id" : "Integer"
},
"bandwidth-template-content" : {
  "count" : "Integer",
  "time-duration" : "Long"
}

```

```

    }
  },
  "uri" : "String",
  "totalSize" : "Integer"
}
}

```

## Sample XML Output:

```

<?xml version="1.0" encoding="UTF-8"?>
<report-templates>
  <report-template>
    <report-type>DRAFT</report-type>
    <id>String</id>
    <domain-id>Integer</domain-id>
    <name>String</name>
    <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>
    <uri>String</uri>
    <link>String</link>
    <job-id>Integer</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>GEOMAP</chart-type>
        <chart-type>LOGEVENT</chart-type>
        <chart-type>LOGCOLUMN</chart-type>
        <chart-type>GRID</chart-type>
        <chart-type>TIMEGRID</chart-type>
        <chart-type>BAR</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-occurence>Integer</re-occurence>
  <date-of-month>Integer</date-of-month>
  <end-time>Long</end-time>
  <uri>String</uri>
  <days-of-week>
    <day-of-week>Sunday</day-of-week>
    <day-of-week>Monday</day-of-week>
    <day-of-week>Tuesday</day-of-week>
    <day-of-week>Wednesday</day-of-week>
    <day-of-week>Thursday</day-of-week>
    <day-of-week>Friday</day-of-week>
    <day-of-week>Saturday</day-of-week>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </days-of-week>
</scheduler>
<policy-analysis-content>
  <firewall-policy>Integer</firewall-policy>
  <uri>String</uri>
  <policyName>String</policyName>
  <anomalies>
    <anomalies>SHADOWED</anomalies>
    <anomalies>REDUNDANT</anomalies>
    <anomalies>GENERALIZED</anomalies>
    <anomalies>UNUSED_RULES</anomalies>
    <anomalies>EXPIRED_SCHEDULER</anomalies>
    <anomalies>LOGGING_DISABLED</anomalies>
    <uri>String</uri>
    <totalSize>Integer</totalSize>
  </anomalies>
  <device-id>Integer</device-id>
</policy-analysis-content>
<bandwidth-template-content>
  <count>Integer</count>
  <time-duration>Long</time-duration>
</bandwidth-template-content>
</report-template>
<uri>String</uri>
<totalSize>Integer</totalSize>
</report-templates>

```

## 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" : {
    "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",
      "def-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "last-modified-by-user-name" : "String",
      "domain-id" : "Integer",
      "file-name" : "String",
      "uri" : "String",
      "id" : "String"
    },
    "report-type" : [ "DRAFT" ],
    "job-id" : "Integer",
    "job-status" : "String",
    "policy-analysis-content" : {
      "firewall-policy" : "Integer",
      "uri" : "String",
      "policyName" : "String",
      "anomalies" : {
        "anomalies" : [ "SHADOWED", "REDUNDANT", "GENERALIZED", "UNUSED_RULES",
          "EXPIRED_SCHEDULER", "LOGGING_DISABLED" ],
        "uri" : "String",
        "totalSize" : "Integer"
      }
    },
    "device-id" : "Integer"
  }
}
```

```

"bandwidth-template-content" : {
  "count" : "Integer",
  "time-duration" : "Long"
},
"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", "GEOMAP", "LOGEVENT",
"LOGCOLUMN", "GRID", "TIMEGRID", "BAR" ],
  "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",
"def-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" ],
"uri" : "String"
}
}
```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<report-template>
  <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>
    <def-type>Hidden</def-type>
    <def-type>Predefined</def-type>
    <def-type>Custom</def-type>
    <def-type>All</def-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>
  <job-id>Integer</job-id>
  <job-status>String</job-status>
  <policy-analysis-content>
    <firewall-policy>Integer</firewall-policy>
    <uri>String</uri>
    <policyName>String</policyName>
    <anomalies>
      <anomalies>SHADOWED</anomalies>
      <anomalies>REDUNDANT</anomalies>
      <anomalies>GENERALIZED</anomalies>
      <anomalies>UNUSED_RULES</anomalies>
      <anomalies>EXPIRED_SCHEDULER</anomalies>
      <anomalies>LOGGING_DISABLED</anomalies>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </anomalies>
    <device-id>Integer</device-id>
  </policy-analysis-content>
  <bandwidth-template-content>
    <count>Integer</count>
    <time-duration>Long</time-duration>
  </bandwidth-template-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>GEOMAP</chart-type>
<chart-type>LOGEVENT</chart-type>
<chart-type>LOGCOLUMN</chart-type>
<chart-type>GRID</chart-type>
<chart-type>TIMEGRID</chart-type>
<chart-type>BAR</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>
  </days-of-week>
</scheduler>

```



```

        <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>
<def-type>Hidden</def-type>
<def-type>Predefined</def-type>
<def-type>Custom</def-type>
<def-type>All</def-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>
    <uri>String</uri>
</report-template>

```

## 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" : {
    "report-logo" : {
      "company-name" : "String",
      "logo-name" : "String",
      "version" : "Integer",
      "def-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "file-name" : "String",
      "id" : "String"
    },
    "report-type" : [ "DRAFT" ],
    "job-id" : "Integer",
    "job-status" : "String",
    "policy-analysis-content" : {
      "firewall-policy" : "Integer",
      "policyName" : "String",
      "anomalies" : {
        "anomalies" : [ "SHADOWED", "REDUNDANT", "GENERALIZED", "UNUSED_RULES",
"EXPIRED_SCHEDULER", "LOGGING_DISABLED" ],
        "totalSize" : "Integer"
      },
      "device-id" : "Integer"
    },
    "bandwidth-template-content" : {
      "count" : "Integer",
      "time-duration" : "Long"
    },
    "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", "GEOMAP", "LOGEVENT",
"LOGCOLUMN", "GRID", "TIMEGRID", "BAR" ],
      "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",
"def-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"additional-emails" : "String",
"job-failure-reason" : "String",
"comments" : "String",
"report-content-type" : [ "LOG", "POLICY_ANOMALY", "BANDWIDTH" ]
}
}

```

## Sample XML Input

```

<?xml version="1.0" encoding="UTF-8"?>
<report-template>
  <report-logo>
    <company-name>String</company-name>
    <logo-name>String</logo-name>
    <version>Integer</version>
    <def-type>Hidden</def-type>
    <def-type>Predefined</def-type>
    <def-type>Custom</def-type>
    <def-type>All</def-type>
    <file-name>String</file-name>
    <id>String</id>
  </report-logo>
  <report-type>DRAFT</report-type>
  <job-id>Integer</job-id>
  <job-status>String</job-status>
  <policy-analysis-content>
    <firewall-policy>Integer</firewall-policy>
    <policyName>String</policyName>
    <anomalies>
      <anomalies>SHADOWED</anomalies>
      <anomalies>REDUNDANT</anomalies>
      <anomalies>GENERALIZED</anomalies>
      <anomalies>UNUSED_RULES</anomalies>
      <anomalies>EXPIRED_SCHEDULER</anomalies>
      <anomalies>LOGGING_DISABLED</anomalies>
      <totalSize>Integer</totalSize>
    </anomalies>
    <device-id>Integer</device-id>
  </policy-analysis-content>
  <bandwidth-template-content>
    <count>Integer</count>
    <time-duration>Long</time-duration>
  </bandwidth-template-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>GEOMAP</chart-type>
  <chart-type>LOGEVENT</chart-type>
  <chart-type>LOGCOLUMN</chart-type>
  <chart-type>GRID</chart-type>
  <chart-type>TIMEGRID</chart-type>
  <chart-type>BAR</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>
<def-type>Hidden</def-type>
<def-type>Predefined</def-type>
<def-type>Custom</def-type>
<def-type>All</def-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-template>

```

Sample JSON Output:

```

{
  "report-template" : {
    "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",
      "def-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "last-modified-by-user-name" : "String",
      "domain-id" : "Integer",
      "file-name" : "String",
      "uri" : "String",
      "id" : "String"
    },
    "report-type" : [ "DRAFT" ],
    "job-id" : "Integer",
    "job-status" : "String",
    "policy-analysis-content" : {
      "firewall-policy" : "Integer",
      "uri" : "String",
      "policyName" : "String",
      "anomalies" : {
        "anomalies" : [ "SHADOWED", "REDUNDANT", "GENERALIZED", "UNUSED_RULES",
"EXPIRED_SCHEDULER", "LOGGING_DISABLED" ],
        "uri" : "String",
        "totalSize" : "Integer"
      }
    },
    "device-id" : "Integer"
  },
  "bandwidth-template-content" : {
    "count" : "Integer",
    "time-duration" : "Long"
  },
  "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", "GEOMAP", "LOGEVENT",
"LOGCOLUMN", "GRID", "TIMEGRID", "BAR" ],
    "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",
"def-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" ],
"uri" : "String"
}
}

```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<report-template>
  <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>
    <def-type>Hidden</def-type>
    <def-type>Predefined</def-type>
    <def-type>Custom</def-type>
    <def-type>All</def-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>
  <job-id>Integer</job-id>
  <job-status>String</job-status>
  <policy-analysis-content>
    <firewall-policy>Integer</firewall-policy>
    <uri>String</uri>
    <policyName>String</policyName>
    <anomalies>
      <anomalies>SHADOWED</anomalies>
      <anomalies>REDUNDANT</anomalies>
      <anomalies>GENERALIZED</anomalies>
      <anomalies>UNUSED_RULES</anomalies>
      <anomalies>EXPIRED_SCHEDULER</anomalies>
      <anomalies>LOGGING_DISABLED</anomalies>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </anomalies>
    <device-id>Integer</device-id>
  </policy-analysis-content>
  <bandwidth-template-content>
    <count>Integer</count>
    <time-duration>Long</time-duration>
  </bandwidth-template-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>
      </formatted-filter>
      <filter>
        <serialVersionUID>long</serialVersionUID>
        <key>String</key>
      </filter>
    </section>
  </sections>
</report-template>
```

```

        <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>GEOMAP</chart-type>
<chart-type>LOGEVENT</chart-type>
<chart-type>LOGCOLUMN</chart-type>
<chart-type>GRID</chart-type>
<chart-type>TIMEGRID</chart-type>
<chart-type>BAR</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>
<def-type>Hidden</def-type>
<def-type>Predefined</def-type>

```



```
<def-type>Custom</def-type>
<def-type>All</def-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>
<uri>String</uri>
</report-template>
```

## 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
Access-Control	viewReports

## Sample JSON Input

```
{
  "report-template" : {
    "report-logo" : {
      "company-name" : "String",
      "logo-name" : "String",
      "version" : "Integer",
      "def-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "file-name" : "String",
      "id" : "String"
    },
    "report-type" : [ "DRAFT" ],
    "job-id" : "Integer",
    "job-status" : "String",
```

```

"policy-analysis-content" : {
  "firewall-policy" : "Integer",
  "policyName" : "String",
  "anomalies" : {
    "anomalies" : [ "SHADOWED", "REDUNDANT", "GENERALIZED", "UNUSED_RULES",
"EXPIRED_SCHEDULER", "LOGGING_DISABLED" ],
    "totalSize" : "Integer"
  },
  "device-id" : "Integer"
},
"bandwidth-template-content" : {
  "count" : "Integer",
  "time-duration" : "Long"
},
"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", "GEOMAP", "LOGEVENT",
"LOGCOLUMN", "GRID", "TIMEGRID", "BAR" ],
  "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",
"def-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"additional-emails" : "String",
"job-failure-reason" : "String",
"comments" : "String",
"report-content-type" : [ "LOG", "POLICY_ANOMALY", "BANDWIDTH" ]
}
}
```

## Sample XML Input

```
<?xml version="1.0" encoding="UTF-8"?>
<report-template>
  <report-logo>
    <company-name>String</company-name>
    <logo-name>String</logo-name>
    <version>Integer</version>
    <def-type>Hidden</def-type>
    <def-type>Predefined</def-type>
    <def-type>Custom</def-type>
    <def-type>All</def-type>
    <file-name>String</file-name>
    <id>String</id>
  </report-logo>
  <report-type>DRAFT</report-type>
  <job-id>Integer</job-id>
  <job-status>String</job-status>
  <policy-analysis-content>
    <firewall-policy>Integer</firewall-policy>
    <policyName>String</policyName>
    <anomalies>
      <anomalies>SHADOWED</anomalies>
      <anomalies>REDUNDANT</anomalies>
      <anomalies>GENERALIZED</anomalies>
      <anomalies>UNUSED_RULES</anomalies>
      <anomalies>EXPIRED_SCHEDULER</anomalies>
      <anomalies>LOGGING_DISABLED</anomalies>
      <totalSize>Integer</totalSize>
    </anomalies>
    <device-id>Integer</device-id>
  </policy-analysis-content>
  <bandwidth-template-content>
    <count>Integer</count>
    <time-duration>Long</time-duration>
  </bandwidth-template-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>GEOMAP</chart-type>
    <chart-type>LOGEVENT</chart-type>
    <chart-type>LOGCOLUMN</chart-type>
    <chart-type>GRID</chart-type>
    <chart-type>TIMEGRID</chart-type>
    <chart-type>BAR</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>
<def-type>Hidden</def-type>
<def-type>Predefined</def-type>
<def-type>Custom</def-type>
<def-type>All</def-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-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>
```

## 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" : {
    "report-logo" : {
      "company-name" : "String",
      "logo-name" : "String",
      "version" : "Integer",
      "def-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "file-name" : "String",
      "id" : "String"
    }
  }
}
```

```

    },
    "report-type" : [ "DRAFT" ],
    "job-id" : "Integer",
    "job-status" : "String",
    "policy-analysis-content" : {
        "firewall-policy" : "Integer",
        "policyName" : "String",
        "anomalies" : {
            "anomalies" : [ "SHADOWED", "REDUNDANT", "GENERALIZED", "UNUSED_RULES",
"EXPIRED_SCHEDULER", "LOGGING_DISABLED" ],
            "totalSize" : "Integer"
        },
        "device-id" : "Integer"
    },
    "bandwidth-template-content" : {
        "count" : "Integer",
        "time-duration" : "Long"
    },
    "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", "GEOMAP", "LOGEVENT",
"LOGCOLUMN", "GRID", "TIMEGRID", "BAR" ],
        "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",
"def-type" : [ "Hidden", "Predefined", "Custom", "All" ],
"additional-emails" : "String",
"job-failure-reason" : "String",
"comments" : "String",
"report-content-type" : [ "LOG", "POLICY_ANOMALY", "BANDWIDTH" ]
}
}

```

## Sample XML Input

```

<?xml version="1.0" encoding="UTF-8"?>
<report-template>
  <report-logo>
    <company-name>String</company-name>
    <logo-name>String</logo-name>
    <version>Integer</version>
    <def-type>Hidden</def-type>
    <def-type>Predefined</def-type>
    <def-type>Custom</def-type>
    <def-type>All</def-type>
    <file-name>String</file-name>
    <id>String</id>
  </report-logo>
  <report-type>DRAFT</report-type>
  <job-id>Integer</job-id>
  <job-status>String</job-status>
  <policy-analysis-content>
    <firewall-policy>Integer</firewall-policy>
    <policyName>String</policyName>
    <anomalies>
      <anomalies>SHADOWED</anomalies>
      <anomalies>REDUNDANT</anomalies>
      <anomalies>GENERALIZED</anomalies>
      <anomalies>UNUSED_RULES</anomalies>
      <anomalies>EXPIRED_SCHEDULER</anomalies>
      <anomalies>LOGGING_DISABLED</anomalies>
      <totalSize>Integer</totalSize>
    </anomalies>
    <device-id>Integer</device-id>
  </policy-analysis-content>
  <bandwidth-template-content>
    <count>Integer</count>
    <time-duration>Long</time-duration>
  </bandwidth-template-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>
    </section>
  </sections>
</report-template>

```

```

        <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>GEOMAP</chart-type>
<chart-type>LOGEVENT</chart-type>
<chart-type>LOGCOLUMN</chart-type>
<chart-type>GRID</chart-type>
<chart-type>TIMEGRID</chart-type>
<chart-type>BAR</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>
<def-type>Hidden</def-type>
<def-type>Predefined</def-type>
<def-type>Custom</def-type>
<def-type>All</def-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-template>
```

Sample JSON Output:

```
{
  "report-template" : {
    "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",
      "def-type" : [ "Hidden", "Predefined", "Custom", "All" ],
      "last-modified-by-user-name" : "String",
      "domain-id" : "Integer",
      "file-name" : "String",
      "uri" : "String",
      "id" : "String"
    },
    "report-type" : [ "DRAFT" ],
    "job-id" : "Integer",
    "job-status" : "String",
    "policy-analysis-content" : {
      "firewall-policy" : "Integer",
      "uri" : "String",
      "policyName" : "String",
      "anomalies" : {
        "anomalies" : [ "SHADOWED", "REDUNDANT", "GENERALIZED", "UNUSED_RULES",
          "EXPIRED_SCHEDULER", "LOGGING_DISABLED" ],
        "uri" : "String",
        "totalSize" : "Integer"
      },
      "device-id" : "Integer"
    },
    "bandwidth-template-content" : {
      "count" : "Integer",
      "time-duration" : "Long"
    },
    "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", "GEOMAP", "LOGEVENT",
"LOGCOLUMN", "GRID", "TIMEGRID", "BAR" ],
    "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",
"def-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" ],
"uri" : "String"
}
}

```

## Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<report-template>
  <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>
    <def-type>Hidden</def-type>
    <def-type>Predefined</def-type>
    <def-type>Custom</def-type>
    <def-type>All</def-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>
  <job-id>Integer</job-id>
  <job-status>String</job-status>
  <policy-analysis-content>
    <firewall-policy>Integer</firewall-policy>
    <uri>String</uri>
    <policyName>String</policyName>
    <anomalies>
      <anomalies>SHADOWED</anomalies>
      <anomalies>REDUNDANT</anomalies>
      <anomalies>GENERALIZED</anomalies>
      <anomalies>UNUSED_RULES</anomalies>
      <anomalies>EXPIRED_SCHEDULER</anomalies>
      <anomalies>LOGGING_DISABLED</anomalies>
      <uri>String</uri>
      <totalSize>Integer</totalSize>
    </anomalies>
    <device-id>Integer</device-id>
  </policy-analysis-content>
  <bandwidth-template-content>
    <count>Integer</count>
    <time-duration>Long</time-duration>
  </bandwidth-template-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>
    </section>
  </sections>
</report-template>
```

```

        <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>GEOMAP</chart-type>
<chart-type>LOGEVENT</chart-type>
<chart-type>LOGCOLUMN</chart-type>
<chart-type>GRID</chart-type>
<chart-type>TIMEGRID</chart-type>
<chart-type>BAR</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>
<def-type>Hidden</def-type>
<def-type>Predefined</def-type>

```

```
<def-type>Custom</def-type>
<def-type>All</def-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>
<uri>String</uri>
</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>
```

## CHAPTER 31

# Application Statistics RESTful Web Services

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

## 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&deviceId=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" ],
        "risk-level": "String",
        "name": "String",
        "value": "Long",
        "users": [ ],
        "session-count": "Long",
        "volume": "Long",

```

```

        "number-of-blocks" : "Long",
        "app-id" : "int",
        "name-type" : "String"
    } ],
    "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>
    <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>int</app-id>
    <name-type>String</name-type>
  </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 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
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" ],
        "risk-level": "String",
        "name": "String",
        "value": "Long",
        "users": [ ],
        "session-count": "Long",
        "volume": "Long",
        "number-of-blocks": "Long",
        "app-id": "int",
        "name-type": "String"
      } ],
      "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>
      <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>int</app-id>
      <name-type>String</name-type>
    </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 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/appvisability/application-statistics/{groupby}/{viewby}?startTime=long&endTime=long&start=int&limit=int&deviceId
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"
  }
}
```

#### 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>
</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&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" ],
      "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": "int",
      "name-type": "String"
    } ],
    "volume": "Long",
    "session-count": "Long",
    "name": "String",
    "total-records": "int",
    "category": "String",
    "sub-category": "String",
    "characteristics": [ "String" ],
    "risk-level": "String",
    "number-of-blocks": "Long",
    "users": "String",
    "sourceips": "String",
    "rawApplication": "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<response>
  <serialVersionUID>long</serialVersionUID>
  <result>
    <category>String</category>
    <sub-category>String</sub-category>
    <characteristics>String</characteristics>
    <risk-level>String</risk-level>
    <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>int</app-id>
  <name-type>String</name-type>
</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>
<rawApplication>String</rawApplication>
</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" ],
      "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": "int",
      "name-type": "String"
    } ],
    "volume": "Long",
    "session-count": "Long",
    "name": "String",
    "total-records": "int",
    "category": "String",
    "sub-category": "String",
    "characteristics": [ "String" ],
    "risk-level": "String",
    "number-of-blocks": "Long",
    "users": "String",
    "sourceips": "String",
    "rawApplication": "String"
  }
}
```

Sample XML Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<response>
  <serialVersionUID>long</serialVersionUID>
  <result>
    <category>String</category>
    <sub-category>String</sub-category>
    <characteristics>String</characteristics>
    <risk-level>String</risk-level>
    <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>
  </result>
</response>
```

```
<session-count>Long</session-count>
<volume>Long</volume>
<number-of-blocks>Long</number-of-blocks>
<app-id>int</app-id>
<name-type>String</name-type>
</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>
<rawApplication>String</rawApplication>
</response>
```

PART 4

# Security Device Management

CHAPTER 32

## 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" ],
        "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>
    </installed-services>
  </device>

```

```

    </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')