



Junos[®] Space

Junos[®] Space Security Design Restful Web Services API Reference



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Junos® Space Security Design Restful Web Services API Guide

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Junos Space Documentation and Release Notes

For a list of related Junos Space documentation, see <http://www.juniper.net/techpubs/>





If the information in the latest release notes differs from the information in the documentation, follow the *Junos Space Release Notes*.

To obtain the most current version of all Juniper Networks® technical documentation, see the product documentation page on the Juniper Networks website at <http://www.juniper.net/techpubs/>.

Documentation Conventions

[Table 1 on page v](#) defines notice icons used in this documentation.

Table 1: Notice Icons

Icon	Meaning	Description
	Informational note	Indicates important features or instructions.
	Caution	Indicates a situation that might result in loss of data or hardware damage.
	Warning	Alerts you to the risk of personal injury or death.
	Laser warning	Alerts you to the risk of personal injury from a laser.

Documentation Feedback

We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation. You can send your comments to techpubs-comments@juniper.net, or fill out the documentation feedback form at <https://www.juniper.net/cgi-bin/docbugreport/>. If you are using e-mail, be sure to include the following information with your comments:

- Document or topic name
- URL or page number
- Software release version (if applicable)

Requesting Technical Support

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

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

Self-Help Online Tools and Resources

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

- Find CSC offerings: <http://www.juniper.net/customers/support/>
- Search for known bugs: <http://www2.juniper.net/kb/>
- Find product documentation: <http://www.juniper.net/techpubs/>
- Find solutions and answer questions using our Knowledge Base: <http://kb.juniper.net/>
- 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: <https://www.juniper.net/alerts/>

- Join and participate in the Juniper Networks Community Forum:
<http://www.juniper.net/company/communities/>
- Open a case online in the CSC Case Management tool: <http://www.juniper.net/cm/>

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: <https://tools.juniper.net/SerialNumberEntitlementSearch/>

Opening a Case with JTAC

You can open a case with JTAC on the Web or by telephone.

- Use the Case Management tool in the CSC at <http://www.juniper.net/cm/> .
- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, see <http://www.juniper.net/support/requesting-support.html> .

CHAPTER 1

Security Design Restful Web Services

- [Security Design Restful Web Services Overview on page 9](#)
- [Using Security Design Restful Web Services on page 9](#)
- [Security Design Restful Web Services on page 10](#)

Security Design Restful Web Services Overview

Security Design Restful Web Services provide programmatic access to the resources that are defined in Junos Space Security Design. Security Design Restful Web Services follow the same standards and conventions as the Junos Space Platform Restful Web Services. The Security Design Restful Web Services are exposed under the Juniper Networks Junos Space Restful Web Services root URI (/api). Security Design-related Restful Web Services are exposed under the /api/juniper/securitydesign URI.

Three Restful Web Services are exposed under the Junos Space Security Design root URI:

- Service management
- Firewall policy management
- Address management

URI: /api/juniper/securitydesign

Sample XML Output

```
<securitydesign>
  <services>
    <service rel="/service-management"
href="/api/juniper/securitydesign/service-management"/>
    <service rel="/fwpolicy-management"
href="/api/juniper/securitydesign/fwpolicy-management"/>
    <service rel="/address-management"
href="/api/juniper/securitydesign/address-management"/>
  </services>
</securitydesign>
```

Using Security Design Restful Web Services

- [Format and Conventions on page 10](#)

Format and Conventions

Media Types

Junos Space uses custom media types to define objects that are accessible as HTTP resources and valid targets to HTTP methods, such as GET, PUT, POST, and DELETE. For each media type, Junos Space encodes three primary pieces of information about the resources on the wire representation: type, syntax, and version.

Media-Type String Format

Custom media types defined for Junos Space applications must have the following specified format:

```
application/<vendor>.securitydesign.<service>.<type>+<syntax>;version=<version>
```

For example, Security Design custom media types have the following format:

```
application/vnd.juniper.securitydesign.service-management.services+xml;version="1"
```

[Table 2 on page 10](#) describes these parameters.

Table 2: Media-Type String Format Parameters

Parameter	Description
<vendor>	Vendor of the media type. Media types defined by Juniper Networks use vnd.net.juniper. Third parties must use their own vendor string in the event that they want to define their own Web services in their applications that are deployed on Junos Space.
<service>	Name of the Junos Space-specific service. Service names are all lowercase alphanumeric tokens with hyphen separators.
<type>	Type of resource. Types are all lowercase alphanumeric tokens with hyphen separators.
<syntax>	Representation of the resource.
<version>	Version of the resource; versions begin with the numeral 1.

Security Design Restful Web Services

- [Service Management Restful Web Services on page 11](#)
- [Firewall Policy Management Restful Web Services on page 19](#)
- [Address Management Restful Web Services on page 28](#)

Service Management Restful Web Services

The Security Design Service Management Restful Web Service is used collect all the service-management services and their associated parameters that are configured in Security Design.

URI	/api/juniper/securitydesign/service-management/services
HTTP Method	HTTP GET
Content-Type	application/vnd.juniper.securitydesign.service-management.services+xml;version="1" application/vnd.juniper.securitydesign.service-management.services+json;version="1"
Consumes	None
Produces	Collection of services

Sample Service Management Output

Sample XML Output

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<services uri="/api/juniper/securitydesign/service-management/services">
  <queryParams>
    <size>249</size>
  </queryParams>
  <service uri="/api/juniper/securitydesign/service-management/services/98304"
href="/api/juniper/securitydesign/service-management/services/98304" key="98304">

    <name>Any</name>
  </service>
  <service uri="/api/juniper/securitydesign/service-management/services/98305"
href="/api/juniper/securitydesign/service-management/services/98305" key="98305">

    <name>ftp</name>
  </service>
  <service uri="/api/juniper/securitydesign/service-management/services/98307"
href="/api/juniper/securitydesign/service-management/services/98307" key="98307">

    <name>tftp</name>
  </service>
  <service uri="/api/juniper/securitydesign/service-management/services/98309"
href="/api/juniper/securitydesign/service-management/services/98309" key="98309">

    <name>rtsp</name>
  </service>
  <service uri="/api/juniper/securitydesign/service-management/services/98311"
href="/api/juniper/securitydesign/service-management/services/98311" key="98311">

    <name>netbios-session</name>
  </service>
  <service uri="/api/juniper/securitydesign/service-management/services/98313"
href="/api/juniper/securitydesign/service-management/services/98313" key="98313">

    <name>ssh</name>
```

```
</service>
<service uri="/api/juniper/securitydesign/service-management/services/98315"
href="/api/juniper/securitydesign/service-management/services/98315" key="98315">

  <name>telnet</name>
</service>
<service uri="/api/juniper/securitydesign/service-management/services/98317"
href="/api/juniper/securitydesign/service-management/services/98317" key="98317">

  <name>smtp</name>
</service>
<service uri="/api/juniper/securitydesign/service-management/services/98319"
href="/api/juniper/securitydesign/service-management/services/98319" key="98319">

  <name>tacacs</name>
</service>
<service uri="/api/juniper/securitydesign/service-management/services/98321"
href="/api/juniper/securitydesign/service-management/services/98321" key="98321">

  <name>tacacs-ds</name>
</service>
<service uri="/api/juniper/securitydesign/service-management/services/98323"
href="/api/juniper/securitydesign/service-management/services/98323" key="98323">

  <name>dhcp-client</name>
</service>
</services>
```

Sample JSON Output

```
{
  "services": {
    "@uri": "/api/juniper/securitydesign/service-management/services",
    "queryParams": {
      "size": 199
    },
    "service": [
      {
        "@uri": "/api/juniper/securitydesign/service-management/services/98304",
        "@href": "/api/juniper/securitydesign/service-management/services/98304",
        "@key": "98304",
        "name": "Any"
      },
      {
        "@uri": "/api/juniper/securitydesign/service-management/services/98305",
        "@href": "/api/juniper/securitydesign/service-management/services/98305",
        "@key": "98305",
        "name": "ftp"
      },
      {
        "@uri": "/api/juniper/securitydesign/service-management/services/98307",
        "@href": "/api/juniper/securitydesign/service-management/services/98307",
        "@key": "98307",
        "name": "tftp"
      },
      {
        "@uri": "/api/juniper/securitydesign/service-management/services/98309",
        "@href": "/api/juniper/securitydesign/service-management/services/98309",
```

```

    "@key": "98309",
    "name": "rtsp"
  },
  {
    "@uri": "/api/juniper/securitydesign/service-management/services/98311",
    "@href": "/api/juniper/securitydesign/service-management/services/98311",
    "@key": "98311",
    "name": "netbios-session"
  },
  {
    "@uri": "/api/juniper/securitydesign/service-management/services/98313",
    "@href": "/api/juniper/securitydesign/service-management/services/98313",
    "@key": "98313",
    "name": "ssh"
  },
]
}
}

```

Sample Service Management Input and Output to get service by ID

URI: /api/juniper/securitydesign/service-management/services/6954

This API will give more information of the service mentioned in the service ID field.

Sample XML Output

```

<service uri="/api/juniper/securitydesign/service-management/services/6954">
  <createdTime>2012-10-16T05:26:09Z</createdTime>
  <description>Regression predefined application</description>
  <id>6954</id>
  <lastModifiedTime>2012-10-16T05:26:09Z</lastModifiedTime>
  <name>App4_SUN-RPC</name>
  <protocols><name>one_sun</name>
  <protocolNumber>17</protocolNumber>
  <protocolType>SUN-RPC</protocolType>
  <rpcProgramNumber>123</rpcProgramNumber>
  <sunrpcProtocolType>17</sunrpcProtocolType>
  </protocols><protocols><name>two_sun</name>
  <protocolNumber>6</protocolNumber>
  <protocolType>SUN-RPC</protocolType>
  <rpcProgramNumber>124</rpcProgramNumber>
  <sunrpcProtocolType>6</sunrpcProtocolType>
  </protocols>
</service>

```

Sample JSON Output

```

{
  "service": {
    "@uri": "/api/juniper/securitydesign/service-management/services/6954",
    "createdTime": "2012-10-16T05:26:09Z",
    "description": "Regression predefined application",
    "id": 6954,
    "lastModifiedTime": "2012-10-16T05:26:09Z",
    "name": "App4_SUN-RPC",
    "protocols": [
      {
        "name": "one_sun",

```

```
    "protocolNumber": 17,
    "protocolType": "SUN-RPC",
    "rpcProgramNumber": 123,
    "sunrpcProtocolType": 17
  },
  {
    "name": "two_sun",
    "protocolNumber": 6,
    "protocolType": "SUN-RPC",
    "rpcProgramNumber": 124,
    "sunrpcProtocolType": 6
  }
]
}
```

Sample Service Management Input and Output with Pagination

URI: /api/juniper/securitydesign/service-management/services?start=1&limit=10

The input parameters to this API are the page number and the number of records to display in each page. If you provide a page number beyond the number of records, you will receive a warning message: The page number is invalid. It is beyond the total pages present in the database. Total Number of Records is N. This warning message is visible in the Response Body (Raw) tab.

Sample XML Output

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<services uri="/api/juniper/securitydesign/service-management/services">
  <queryParams>
    <pagingParams>
      <limit>10</limit>
      <next
href="/api/juniper/securitydesign/service-management/services?start=2&limit=10"/>

      <previous/>
      <start>1</start>
    </pagingParams>
    <size>199</size>
  </queryParams>
  <service uri="/api/juniper/securitydesign/service-management/services/98304"
href="/api/juniper/securitydesign/service-management/services/98304" key="98304">

    <description>predefined any service</description>
    <name>Any</name>
  </service>
  <service uri="/api/juniper/securitydesign/service-management/services/98305"
href="/api/juniper/securitydesign/service-management/services/98305" key="98305">

    <description>predefined service</description>
    <name>ftp</name>
  </service>
  <service uri="/api/juniper/securitydesign/service-management/services/98307"
href="/api/juniper/securitydesign/service-management/services/98307" key="98307">

    <description>predefined service</description>
    <name>tftp</name>
```

```

</service>
<service uri="/api/juniper/securitydesign/service-management/services/98309"
href="/api/juniper/securitydesign/service-management/services/98309" key="98309">

  <description>predefined service</description>
  <name>rtsp</name>
</service>
<service uri="/api/juniper/securitydesign/service-management/services/98311"
href="/api/juniper/securitydesign/service-management/services/98311" key="98311">

  <description>predefined service</description>
  <name>netbios-session</name>
</service>
<service uri="/api/juniper/securitydesign/service-management/services/98313"
href="/api/juniper/securitydesign/service-management/services/98313" key="98313">

  <description>predefined service</description>
  <name>ssh</name>
</service>
<service uri="/api/juniper/securitydesign/service-management/services/98315"
href="/api/juniper/securitydesign/service-management/services/98315" key="98315">

  <description>predefined service</description>
  <name>telnet</name>
</service>
<service uri="/api/juniper/securitydesign/service-management/services/98317"
href="/api/juniper/securitydesign/service-management/services/98317" key="98317">

  <description>predefined service</description>
  <name>smtp</name>
</service>
<service uri="/api/juniper/securitydesign/service-management/services/98319"
href="/api/juniper/securitydesign/service-management/services/98319" key="98319">

  <description>predefined service</description>
  <name>tacacs</name>
</service>
<service uri="/api/juniper/securitydesign/service-management/services/98321"
href="/api/juniper/securitydesign/service-management/services/98321" key="98321">

  <description>predefined service</description>
  <name>tacacs-ds</name>
</service>
</services>

```

Sample JSON Output

```

{
  "services": {
    "@uri": "/api/juniper/securitydesign/service-management/services",
    "queryParams": {
      "pagingParams": {
        "limit": 10,
        "next": {
          "@href": "/api/juniper/securitydesign/service-management/services?start=2&=10"
        }
      }
    },
    "previous": ""
  }
}

```

```
    "start": 1
  },
  "size": 199
},
"service": [
  {
    "@uri": "/api/juniper/securitydesign/service-management/services/98304",
    "@href": "/api/juniper/securitydesign/service-management/services/98304",
    "@key": "98304",
    "description": "predefined any service",
    "name": "Any"
  },
  {
    "@uri": "/api/juniper/securitydesign/service-management/services/98305",
    "@href": "/api/juniper/securitydesign/service-management/services/98305",
    "@key": "98305",
    "description": "predefined service",
    "name": "ftp"
  },
  {
    "@uri": "/api/juniper/securitydesign/service-management/services/98307",
    "@href": "/api/juniper/securitydesign/service-management/services/98307",
    "@key": "98307",
    "description": "predefined service",
    "name": "tftp"
  },
  {
    "@uri": "/api/juniper/securitydesign/service-management/services/98309",
    "@href": "/api/juniper/securitydesign/service-management/services/98309",
    "@key": "98309",
    "description": "predefined service",
    "name": "rtsp"
  },
  {
    "@uri": "/api/juniper/securitydesign/service-management/services/98311",
    "@href": "/api/juniper/securitydesign/service-management/services/98311",
    "@key": "98311",
    "description": "predefined service",
    "name": "netbios-session"
  },
  {
    "@uri": "/api/juniper/securitydesign/service-management/services/98313",
    "@href": "/api/juniper/securitydesign/service-management/services/98313",
    "@key": "98313",
    "description": "predefined service",
    "name": "ssh"
  },
  {
    "@uri": "/api/juniper/securitydesign/service-management/services/98315",
    "@href": "/api/juniper/securitydesign/service-management/services/98315",
    "@key": "98315",
    "description": "predefined service",
    "name": "telnet"
  },
  {
    "@uri": "/api/juniper/securitydesign/service-management/services/98317",
    "@href": "/api/juniper/securitydesign/service-management/services/98317",
```



```

    "@key": "98317",
    "description": "predefined service",
    "name": "smtp"
  },
  {
    "@uri": "/api/juniper/securitydesign/service-management/services/98319",
    "@href": "/api/juniper/securitydesign/service-management/services/98319",
    "@key": "98319",
    "description": "predefined service",
    "name": "tacacs"
  },
  {
    "@uri": "/api/juniper/securitydesign/service-management/services/98321",
    "@href": "/api/juniper/securitydesign/service-management/services/98321",
    "@key": "98321",
    "description": "predefined service",
    "name": "tacacs-ds"
  }
]
}
}

```

Sample Service Management Input and Output with Filtering

URI: /api/juniper/securitydesign/service-management/services?searchkey=any

This Service search is similar to the service search in the Security Design Services page.

Sample XML Output

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<services uri="/api/juniper/securitydesign/service-management/services">
  <queryParams>
    <filterParams>
      <searchKey>any</searchKey>
    </filterParams>
    <size>6</size>
  </queryParams>
  <service uri="/api/juniper/securitydesign/service-management/services/98495"
href="/api/juniper/securitydesign/service-management/services/98495" key="98495">

    <description>predefined service</description>
    <name>sctp-any</name>
  </service>
  <service uri="/api/juniper/securitydesign/service-management/services/98540"
href="/api/juniper/securitydesign/service-management/services/98540" key="98540">

    <description>predefined service</description>
    <name>tcp-any</name>
  </service>
  <service uri="/api/juniper/securitydesign/service-management/services/98542"
href="/api/juniper/securitydesign/service-management/services/98542" key="98542">

    <description>predefined service</description>
    <name>udp-any</name>
  </service>
  <service uri="/api/juniper/securitydesign/service-management/services/98713"
href="/api/juniper/securitydesign/service-management/services/98713" key="98713">

```

```
<name>ms-rpc-uuid-any-tcp</name>
</service>
<service uri="/api/juniper/securitydesign/service-management/services/98715"
href="/api/juniper/securitydesign/service-management/services/98715" key="98715">

<name>ms-rpc-uuid-any-udp</name>
</service>
<service uri="/api/juniper/securitydesign/service-management/services/98719"
href="/api/juniper/securitydesign/service-management/services/98719" key="98719">

<name>ms-rpc-any</name>
</service>
</services>
```

Sample JSON Output

```
{
  "services": {
    "@uri": "/api/juniper/securitydesign/service-management/services",
    "queryParams": {
      "filterParams": {
        "searchKey": "any"
      },
      "size": 6
    },
    "service": [
      {
        "@uri": "/api/juniper/securitydesign/service-management/services/98495",
        "@href": "/api/juniper/securitydesign/service-management/services/98495",
        "@key": "98495",
        "description": "predefined service",
        "name": "sctp-any"
      },
      {
        "@uri": "/api/juniper/securitydesign/service-management/services/98540",
        "@href": "/api/juniper/securitydesign/service-management/services/98540",
        "@key": "98540",
        "description": "predefined service",
        "name": "tcp-any"
      },
      {
        "@uri": "/api/juniper/securitydesign/service-management/services/98542",
        "@href": "/api/juniper/securitydesign/service-management/services/98542",
        "@key": "98542",
        "description": "predefined service",
        "name": "udp-any"
      },
      {
        "@uri": "/api/juniper/securitydesign/service-management/services/98713",
        "@href": "/api/juniper/securitydesign/service-management/services/98713",
        "@key": "98713",
        "name": "ms-rpc-uuid-any-tcp"
      },
      {
        "@uri": "/api/juniper/securitydesign/service-management/services/98715",
        "@href": "/api/juniper/securitydesign/service-management/services/98715",
        "@key": "98715",
```

```

        "name": "ms-rpc-uuid-any-udp"
      },
      {
        "@uri": "/api/juniper/securitydesign/service-management/services/98719",
        "@href": "/api/juniper/securitydesign/service-management/services/98719",
        "@key": "98719",
        "name": "ms-rpc-any"
      }
    ]
  }
}

```

Firewall Policy Management Restful Web Services

The Security Design Firewall Policy Management Restful Web Service is used to collect all the firewall policies and their associated parameters that are configured in Security Design.

URI	/api/juniper/securitydesign/fwpolicy-management/firewall-policies
HTTP Method	HTTP GET
Content-Type	application/vnd.juniper.securitydesign.fwpolicy-management.firewall-policies+xml;version="1" application/vnd.juniper.securitydesign.fwpolicy-management.firewall-policies+json;version="1"
Consumes	None
Produces	Collection of firewall polices

Sample Firewall Policy Management Output

Sample XML Output

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<firewall-policies
uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies" size="1">
  <firewall-policy
uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/32772"
href="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/32772"
key="32772">
    <description>Predefined Policy for all devices</description>
    <member-devices/>
    <name>All Devices Policy</name>
  </firewall-policy>
</firewall-policies>

```

Sample JSON Output

```

{
  "firewall-policies": {
    "@uri": "/api/juniper/securitydesign/fwpolicy-management/firewall-policies",
    "@size": "1",
    "firewall-policy": {
      "@uri": "/api/juniper/securitydesign/fwpolicy-management/firewall-policies/32772",
      "@href": "/api/juniper/securitydesign/fwpolicy-management/firewall-policies/32772",

```

```
"@key": "32772",
"description": "Predefined Policy for all devices",
"member-devices": "",
"name": "All Devices Policy"
}
}
}
```

Sample Firewall Policy Management Input and Output to Get Policy by ID

URI: `/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547`

The member-devices tag under `getPolicyById` API differs for device policy and group policy. In case of group policy, there will be a link to navigate to the device exception policy and in case of device policy, only the device name will be shown.

Sample XML Output

```
<firewall-policy
uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547">
  <createdByUserName>super</createdByUserName>
  <createdTime>2012-10-16T04:30:47Z</createdTime>
  <customColumns>
    <CustomColumn id="50016">Column1</CustomColumn>
    <CustomColumn id="50017">Column2</CustomColumn>
  </customColumns>
  <description>Description for policy1</description>
  <member-devices>
    <member-device href=
"/api/juniper/securitydesign/fwpolicy-management/firewall-policies/655434?devicetype=standalone"
    >
      <name>SRX1400-a</name>
    </member-device>
  </member-devices>
  <IPSMODE>BASIC</IPSMODE>
  <id>65547</id>
  <ipsSignatureSet>
    <ipsSignature>Recommended</ipsSignature>
  </ipsSignatureSet>
  <lastModifiedTime>2012-10-16T07:04:01Z</lastModifiedTime>
  <manageGlobalPolicy>true</manageGlobalPolicy>
  <manageZonePolicy>true</manageZonePolicy>
  <name>Policy1</name>
  <policyPriority>LOW</policyPriority>
  <policyProfileName>policyProfile-1</policyProfileName>
  <policyType>GROUP</policyType>
  <precedence>1</precedence>
  <priority>65537</priority>
  <publishState>NOT_PUBLISHED</publishState>
  <rules
uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules"
href=
"/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules"
  />
  <version>5</version>
</firewall-policy>
```

Sample JSON Output

```

{
  "firewall-policy": {
    "@uri": "/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547",

    "createdByUserName": "super",
    "createdTime": "2012-10-16T04:30:47Z",
    "customColumns": {
      "CustomColumn": [
        {
          "@id": "50016",
          "$": "Column1"
        },
        {
          "@id": "50017",
          "$": "Column2"
        }
      ]
    },
    "description": "Description for policy1",
    "member-devices": {
      "member-device": {
        "@href":
"/api/juniper/securitydesign/fwpolicy-management/firewall-policies/655434?devicetype=standalone",

        "name": "SRX1400-a"
      }
    },
    "IPSMMode": "BASIC",
    "id": 65547,
    "ipsSignatureSet": {
      "ipsSignature": "Recommended"
    },
    "lastModifiedTime": "2012-10-16T07:04:01Z",
    "manageGlobalPolicy": true,
    "manageZonePolicy": true,
    "name": "Policy1",
    "policyPriority": "LOW",
    "policyProfileName": "policyProfile-1",
    "policyType": "GROUP",
    "precedence": 1,
    "priority": 65537,
    "publishState": "NOT_PUBLISHED",
    "rules": {
      "@uri":
"/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules",

      "@href":
"/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules"
    },
    "version": 5
  }
}

```

Sample Firewall Policy Management Input and Output to Get Device Policy by ID

URI:=/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547

Sample XML Output

```
<firewall-policy
uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547">
  <createdByUserName>super</createdByUserName>
  <createdTime>2012-10-17T04:16:49Z</createdTime>
  <description>Created by Import</description>
  <member-devices>
    <member-device>
      <name>SRX1400-a</name>
    </member-device>
  </member-devices>
  <IPSMODE>ADVANCED</IPSMODE>
  <id>65547</id>
  <ipsSignatureSet/>
  <lastModifiedByUserName>super</lastModifiedByUserName>
  <lastModifiedTime>2012-10-17T10:20:59Z</lastModifiedTime>
  <manageGlobalPolicy>false</manageGlobalPolicy>
  <manageZonePolicy>true</manageZonePolicy>
  <name>SRX1400-a</name>
  <policyPriority>LOW</policyPriority>
  <policyProfileName/>
  <policyType>DEVICE</policyType>
  <precedence>-1</precedence>
  <priority>256</priority>
  <publishState>NOT_PUBLISHED</publishState>
  <rules
uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules"
href=
"/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules"
/>
    <version>6</version>
  </firewall-policy>
```

Sample Firewall Policy Management Input and Output with Pagination:

Not Supported

Sample Firewall Policy Management Input and Output with Filtering

URI:/api/juniper/securitydesign/fwpolicy-management/firewall-policies?searchkey=all

This policy search is similar to the left pane search of the Security Design policy page.

Sample XML Output

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<firewall-policies
uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies" size="1">
  <firewall-policy
uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/32772"
href="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/32772"
key="32772">
    <description>Predefined Policy for all devices</description>
    <member-devices/>
    <name>All Devices Policy</name>
```

```
</firewall-policy>
</firewall-policies>
```

Sample JSON Output

```
{
  "firewall-policies": {
    "@uri": "/api/juniper/securitydesign/fwpolicy-management/firewall-policies",
    "@size": "1",
    "firewall-policy": {
      "@uri": "/api/juniper/securitydesign/fwpolicy-management/firewall-policies/32772",
      "@href": "/api/juniper/securitydesign/fwpolicy-management/firewall-policies/32772",
      "@key": "32772",
      "description": "Predefined Policy for all devices",
      "member-devices": "",
      "name": "All Devices Policy"
    }
  }
}
```

Sample Firewall Policy Management Input and Output to Get Rules

URI:

api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules

This API is used to get the rules in a policy. If the policy contains rule groups, only the rule group is listed and the rules within the rule groups must be queried separately.

Sample XML Output

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
  <firewall-rules
    uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65540/firewall-rules/65541/members"
    size="2">
    <firewall-rule
      uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65540/firewall-rules/65542"

      href="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65540/firewall-rules/65542">

      <appSigType>NONE</appSigType>
      <customColumnData/>
      <disabled>>false</disabled>
      <IPSMODE>NONE</IPSMODE>
      <id>65542</id>
      <members
        uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65540/firewall-rules/65542/members"

        href="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65540/firewall-rules/65542/members"/>
        <name>All Devices Pre Rules</name>
        <policyName>All Devices Policy</policyName>
        <ruleGroupType>PRE</ruleGroupType>
        <ruleOrder>0</ruleOrder>
        <ruleProfile>
          <profileType>INHERITED</profileType>
        </ruleProfile>
        <ruleType>RULEGROUP</ruleType>
      </firewall-rule>
```

```
<firewall-rule
uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65540/firewall-rules/65543"

href="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65540/firewall-rules/65543">

  <appSigType>NONE</appSigType>
  <customColumnData/>
  <disabled>>false</disabled>
  <IPSMODE>NONE</IPSMODE>
  <id>65543</id>
  <members
uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65540/firewall-rules/65543/members"

href="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65540/firewall-rules/65543/m
embers"/>
  <name>All Devices Post Rules</name>
  <policyName>All Devices Policy</policyName>
  <ruleGroupType>POST</ruleGroupType>
  <ruleOrder>1</ruleOrder>
  <ruleProfile>
  <profileType>INHERITED</profileType>
  </ruleProfile>
  <ruleType>RULEGROUP</ruleType>
</firewall-rule>
</firewall-rules>
```

URI:

/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65540/firewall-rules/65542/members

Sample XML Output

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<firewall-rules
uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65540/firewall-rules/65542/members"
size="2">
  <firewall-rule
uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65540/firewall-rules/65554"

href="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65540/firewall-rules/65554">

    <action>PERMIT</action>
    <appSigType>WHITELIST</appSigType>
    <applicationSignatures>
      <applicationSignature>AAJTAK</applicationSignature>
      <applicationSignature>99ACRES</applicationSignature>
    </applicationSignatures>
    <customColumnData>
      <CustomColumnValue id="41658">AS</CustomColumnValue>
      <CustomColumnValue id="41657">a</CustomColumnValue>
      <CustomColumnValue id="41656">12</CustomColumnValue>
    </customColumnData>
    <description>Descriptions 1</description>
    <disabled>>false</disabled>
    <fromAddress size="1">
      <address uri="/api/juniper/securitydesign/address-management/addresses/33368"
href="/api/juniper/securitydesign/address-management/addresses/33368"
key="33368">
        <name>AD1</name>
```



```

    </address>
  </fromAddress>
  <fromZone>
    <name>trust</name>
    <resolved>true</resolved>
    <zoneType>ZONE</zoneType>
  </fromZone>
  <IPSMODE>NONE</IPSMODE>
  <id>65554</id>
  <name>All-Devices-Zone-Pre-1</name>
  <policyName>All Devices Policy</policyName>
  <ruleGroupType>CUSTOM</ruleGroupType>
  <ruleOrder>0</ruleOrder>
  <ruleProfile uri="/api/juniper/securitydesign/fwpolicy-management/profiles/65599"
href="/api/juniper/securitydesign/fwpolicy-management/profiles/65599">
    <id>65599</id>
    <name>policyProfile-5_auth</name>
    <profileType>USER_DEFINED</profileType>
  </ruleProfile>
  <ruleType>RULE</ruleType>
  <services size="1">
    <service uri="/api/juniper/securitydesign/service-management/services/32867"
href="/api/juniper/securitydesign/service-management/services/32867" key="32867">

      <name>aol</name>
    </service>
  </services>
  <sourceIdentities>
    <sourceIdentity>Authenticated-User</sourceIdentity>
  </sourceIdentities>
  <toAddress size="1">
    <address uri="/api/juniper/securitydesign/address-management/addresses/33369"
href="/api/juniper/securitydesign/address-management/addresses/33369"
key="33369">
      <name>AD2</name>
    </address>
  </toAddress>
  <toZone>
    <name>untrust</name>
    <resolved>true</resolved>
    <zoneType>ZONE</zoneType>
  </toZone>
</firewall-rule>
</firewall-rules>

```

Sample Firewall Policy Management Input and Output to Get Rule Members

URI=[/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules/65549/members](#)

This API is used to all the members of a rule group or rules under a rule group with the rule ID.

Sample XML Output

```

<firewall-rules
uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules/65549/members"
size="1">
  <firewall-rule

```

```

uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules/80459"
href=
"/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules/80459"
>
  <action>DENY</action>
  <appSigType>NONE</appSigType>
  <applicationSignatures/>
  <customColumnData/>
  <disabled>>false</disabled>
  <fromAddress size="1">
    <address uri="/api/juniper/securitydesign/address-management/addresses/33158"
href= "/api/juniper/securitydesign/address-management/addresses/33158"
key="33158">
      <name>Any</name>
    </address>
  </fromAddress>
  <fromZone>
    <name>trust</name>
    <type>ZONE</type>
  </fromZone>
  <IPSMODE>BASIC</IPSMODE>
  <id>80459</id>
  <name>rule-1</name>
  <policyName>Policy1</policyName>
  <ruleGroupType>CUSTOM</ruleGroupType>
  <ruleOrder>0</ruleOrder>
  <ruleProfile uri="/api/juniper/securitydesign/fwpolicy-management/profiles/75355"
href= "/api/juniper/securitydesign/fwpolicy-management/profiles/75355" >
    <id>75355</id>
    <name>policyProfile-2</name>
    <profileType>USER_DEFINED</profileType>
  </ruleProfile>
  <ruleType>RULE</ruleType>
  <services size="1">
    <service uri="/api/juniper/securitydesign/service-management/services/32786"
href= "/api/juniper/securitydesign/service-management/services/32786" key="32786">
      <name>Any</name>
    </service>
  </services>
  <toAddress size="1">
    <address uri="/api/juniper/securitydesign/address-management/addresses/33158"
href= "/api/juniper/securitydesign/address-management/addresses/33158"
key="33158">
      <name>Any</name>
    </address>
  </toAddress>
  <toZone>
    <name>private</name>
    <type>ZONE</type>
  </toZone>
</firewall-rule>
</firewall-rules>

```

Sample Firewall Policy Management Input and Output to Get Policy Profile

URI: `/api/juniper/securitydesign/fwpolicy-management/profiles/75355`

This API is used to get the policy profile used in the rule with a profile ID. You cannot directly access the profile. 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.

Sample XML Output

```
<ruleProfile uri="/api/juniper/securitydesign/fwpolicy-management/profiles/75355">
  <authenticationType>NONE</authenticationType>
  <createdTime>2012-10-16T06:40:53Z</createdTime>
  <defaultProfile>>false</defaultProfile>
  <definitionType>CUSTOM</definitionType>
  <description>Deny all and log start of incidents</description>
  <id>75355</id>
  <infranetRedirect>NONE</infranetRedirect>
  <logAtSessionClose>>false</logAtSessionClose>
  <logAtSessionInitTime>>true</logAtSessionInitTime>
  <perMinuteAlarmThreshold>88</perMinuteAlarmThreshold>
  <perSecondAlarmThreshold>888</perSecondAlarmThreshold>
  <serviceOffload>>false</serviceOffload>
</ruleProfile>
```

Sample Firewall Policy Management Input and Output to Search for Firewall Rules

URI: `/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules?searchkey=deny`

Rule search will first show the top level rule group (Zone or Global) under which the rule is present. You can then navigate to Pre, Post, or Device rules, and then to the searched rule.

Sample XML Output

```
<firewall-rules
  uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules"
  size="1">
  <firewall-rule
    uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules/65548"
    href=
"/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules/65548"
  >
    <appSigType>NONE</appSigType>
    <customColumnData/>
    <disabled>>false</disabled>
    <IPSMODE>BASIC</IPSMODE>
    <id>65548</id>
    <members
      uri="/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules/65548/members?searchkey=deny"
      href=
"/api/juniper/securitydesign/fwpolicy-management/firewall-policies/65547/firewall-rules/65548/members?searchkey=deny"
    />
    <name>Zone</name>
    <policyName>Policy1</policyName>
    <ruleGroupType>ZONE</ruleGroupType>
    <ruleOrder>0</ruleOrder>
    <ruleProfile>
      <profileType>INHERITED</profileType>
    </ruleProfile>
```

```

    <ruleType>RULEGROUP</ruleType>
  </firewall-rule>
</firewall-rules>

```

Address Management Restful Web Services

The Security Design Address Management Restful Web Service is used to collect all the address objects that are configured in Security Design.

URI	/api/juniper/securitydesign/address-management/addresses
HTTP Method	HTTP GET
Content-Type	application/vnd.juniper.securitydesign.address-management.addresses+xml;version="1" application/vnd.juniper.securitydesign.address-management.addresses+json;version="1"
Consumes	None
Produces	Collection of address objects

Sample Address Management Output

Sample XML Output

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<addresses uri="/api/juniper/securitydesign/address-management/addresses">
  <address uri="/api/juniper/securitydesign/address-management/addresses/98676"
href="/api/juniper/securitydesign/address-management/addresses/98676"
key="98676">
    <name>Any</name>
  </address>
  <address uri="/api/juniper/securitydesign/address-management/addresses/98677"
href="/api/juniper/securitydesign/address-management/addresses/98677"
key="98677">
    <name>Any-IPv4</name>
  </address>
  <address uri="/api/juniper/securitydesign/address-management/addresses/98678"
href="/api/juniper/securitydesign/address-management/addresses/98678"
key="98678">
    <name>Any-IPv6</name>
  </address>
  <queryParams>
    <size>3</size>
  </queryParams>
</addresses>

```

Sample JSON Output

```

{
  "addresses": {
    "@uri": "/api/juniper/securitydesign/address-management/addresses",
    "address": [
      {
        "@uri": "/api/juniper/securitydesign/address-management/addresses/98676",
        "@href": "/api/juniper/securitydesign/address-management/addresses/98676",
        "@key": "98676",

```

```

    "name": "Any"
  },
  {
    "@uri": "/api/juniper/securitydesign/address-management/addresses/98677",
    "@href": "/api/juniper/securitydesign/address-management/addresses/98677",
    "@key": "98677",
    "name": "Any-IPv4"
  },
  {
    "@uri": "/api/juniper/securitydesign/address-management/addresses/98678",
    "@href": "/api/juniper/securitydesign/address-management/addresses/98678",
    "@key": "98678",
    "name": "Any-IPv6"
  }
],
"queryParams": {
  "size": 3
}
}
}

```

Sample Address Management input and output to get address by ID

URI: /api/juniper/securitydesign/address-management/addresses/6991

This API lists detailed information of the address mentioned in the address ID field.

Sample XML Output

```

<address uri="/api/juniper/securitydesign/address-management/addresses/6991">
  <addressType>Wildcard</addressType>
  <addressVersion>IPv4</addressVersion>
  <createdTime>2012-10-16T05:26:10Z</createdTime>
  <definitionType>CUSTOM</definitionType>
  <description>WildCard Address</description>
  <id>6991</id>
  <ipAddress>192.168.0.11/255.255.0.255</ipAddress>
  <lastModifiedTime>2012-10-16T05:26:10Z</lastModifiedTime>
  <name>Wildcard_1</name>
</address>

```

Sample JSON Output

```

{
  "address": {
    "@uri": "/api/juniper/securitydesign/address-management/addresses/6991",
    "addressType": "Wildcard",
    "addressVersion": "IPv4",
    "createdTime": "2012-10-16T05:26:10Z",
    "definitionType": "CUSTOM",
    "description": "WildCard Address",
    "id": 6991,
    "ipAddress": "192.168.0.11/255.255.0.255",
    "lastModifiedTime": "2012-10-16T05:26:10Z",
    "name": "Wildcard_1"
  }
}

```

Sample Address Management input and output with Pagination

URI:/api/juniper/securitydesign/address-management/addresses?start=1&limit=10

The input parameters to this API are the page number and the number of records to display in each page. If you provide a page number beyond the number of records, you will receive a warning message: The page number is invalid. It is beyond the total pages present in the database. Total Number of Records is N. This warning message is visible in the Response Body (Raw) tab.

Sample XML Ouput

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<addresses uri="/api/juniper/securitydesign/address-management/addresses">
  <address uri="/api/juniper/securitydesign/address-management/addresses/98676"
href="/api/juniper/securitydesign/address-management/addresses/98676"
key="98676">
    <name>Any</name>
  </address>
  <address uri="/api/juniper/securitydesign/address-management/addresses/98677"
href="/api/juniper/securitydesign/address-management/addresses/98677"
key="98677">
    <name>Any-IPv4</name>
  </address>
  <address uri="/api/juniper/securitydesign/address-management/addresses/98678"
href="/api/juniper/securitydesign/address-management/addresses/98678"
key="98678">
    <name>Any-IPv6</name>
  </address>
</addresses>
<queryParams>
  <pagingParams>
    <limit>10</limit>
    <next/>
    <previous/>
    <start>1</start>
  </pagingParams>
  <size>3</size>
</queryParams>
```

Sample JSON Ouput

```
{
  "addresses": {
    "@uri": "/api/juniper/securitydesign/address-management/addresses",
    "address": [
      {
        "@uri": "/api/juniper/securitydesign/address-management/addresses/98676",
        "@href": "/api/juniper/securitydesign/address-management/addresses/98676",
        "@key": "98676",
        "name": "Any"
      },
      {
        "@uri": "/api/juniper/securitydesign/address-management/addresses/98677",
        "@href": "/api/juniper/securitydesign/address-management/addresses/98677",
        "@key": "98677",
        "name": "Any-IPv4"
      },
      {
        "@uri": "/api/juniper/securitydesign/address-management/addresses/98678",
```

```

    "@href": "/api/juniper/securitydesign/address-management/addresses/98678",
    "@key": "98678",
    "name": "Any-IPv6"
  }
],
"queryParams": {
  "pagingParams": {
    "limit": 10,
    "next": "",
    "previous": "",
    "start": 1
  },
  "size": 3
}
}
}

```

Sample Address Management Input and Output with Filtering

URI: /api/juniper/securitydesign/address-management/addresses?searchkey=any-ipv4

This address search is similar to the address search in the Security Design addresses page.

Sample XML Output

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<addresses uri="/api/juniper/securitydesign/address-management/addresses">
  <address uri="/api/juniper/securitydesign/address-management/addresses/98677"
href="/api/juniper/securitydesign/address-management/addresses/98677"
key="98677">
    <name>Any-IPv4</name>
  </address>
  <queryParams>
    <filterParams>
      <searchKey>any-ipv4</searchKey>
    </filterParams>
    <size>1</size>
  </queryParams>
</addresses>

```

Sample JSON Output

```

{
  "addresses": {
    "@uri": "/api/juniper/securitydesign/address-management/addresses",
    "address": {
      "@uri": "/api/juniper/securitydesign/address-management/addresses/98677",
      "@href": "/api/juniper/securitydesign/address-management/addresses/98677",
      "@key": "98677",
      "name": "Any-IPv4"
    },
    "queryParams": {
      "filterParams": {
        "searchKey": "any-ipv4"
      },
      "size": 1
    }
  }
}

```

```
}  
}
```