

Application Mappings API v1.0

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Overview

Overview

The documentation pages in this section describe the RESTful APIs included with Riverbed NetProfiler Product. It is assumed that the reader has practical knowledge of RESTful APIs, so the documentation does not go into detail about what REST is and how to use it. Instead the documentation focuses on how to create and manage application mappings.

Application mappings can be based on hosts, host groups, protocols, ports, auto-recognized applications or one or more URLs.

The following operations can be performed via the API:

- Create new application mappings
- Fetch details on existing application mappings
- Update existing application mappings
- Delete existing application mappings
- Import application mappings from XML
- Export application mappings to XML

Details about REST resources can be found in the **Resources** section. This overview continues with how to run these APIs.

Authentication

All REST requests must be authenticated. The **Authentication** section of the Common API describes which authentication methods are presently supported.

Resources

General Application Mappings: Get General Mappings

Get all general application mappings

```
GET https://{device}/api/mgmt.applications/1.0/mappings/general
```

Authorization

This request requires authorization.

Response Body

On success, the server returns a response body with the following structure:

```
JSON
```

```
[
  {
    "app": string,
    "id": string,
    "hosts": [
      string
    ],
    "ports": [
      {
        "proto": string,
        "port": string
      }
    ],
    "auto_apps": [
      string
    ],
    "enabled": boolean,
    "override": string,
    "priority": string,
    "known_port": boolean
  }
]
```

Example:

```
[
  {
    "app": "test1",
    "auto_apps": [],
    "enabled": true,
    "hosts": [
      "0.0.0.0/0",
      "::/0"
    ],
    "id": "160",
    "known_port": false,
    "override": "Unknown",
    "ports": [
      {
        "proto": "6",
        "port": "20-21"
      }
    ],
    "priority": "25"
  },
  {
    "app": "test2",
    "auto_apps": [
      "Google",
      "Facebook"
    ],
    "enabled": false,
    "hosts": [],
    "id": "102",
    "known_port": false,
    "override": "Always",
    "ports": [],
    "priority": "26"
  }
]
```

Property Name	Type	Description	Notes
<i>GetGeneralMappings</i>	<array of <object>>	Application mappings data	
<i>GetGeneralMappings</i> [item]	<object>	Application mapping data	
<i>GetGeneralMappings</i> [item].app	<string>	Mapping name	
<i>GetGeneralMappings</i> [item].id	<string>	Mapping identifier	
<i>GetGeneralMappings</i> [item].hosts	<array of <string>>	List of hosts. Hosts can be IP addresses, CIDR blocks or host groups.	
<i>GetGeneralMappings</i> [item].hosts[item]	<string>	Host	Optional
<i>GetGeneralMappings</i> [item].ports	<array of <object>>	List of ports	
<i>GetGeneralMappings</i> [item].ports[item]	<object>	Port data	Optional
<i>GetGeneralMappings</i> [item].ports[item].proto	<string>	Protocol	
<i>GetGeneralMappings</i> [item].ports[item].port	<string>	Port	
<i>GetGeneralMappings</i> [item].auto_apps	<array of <string>>	List of auto-recognized application names	

<code>GetGeneralMappings[item].auto_apps[item]</code>	<code><string></code>	Auto-recognized application name	Optional
<code>GetGeneralMappings[item].enabled</code>	<code><boolean></code>	Mapping based tracking and reporting of the application is enabled/disabled	
<code>GetGeneralMappings[item].override</code>	<code><string></code>	Whether the general definition of the application overrides an auto-recognized definition. Always - unconditionally overrides any existing layer 7 application mapping. Unknown - applies to flows that did not match any auto-recognized applications or general rules.	Values: Always, Unknown
<code>GetGeneralMappings[item].priority</code>	<code><string></code>	Priority of the mapping	
<code>GetGeneralMappings[item].known_port</code>	<code><boolean></code>	Whether it is a system-defined mapping through a known protocol/port	

General Application Mappings: Get General Mapping

Get a general application mapping

GET `https://{device}/api/mgmt.applications/1.0/mappings/general/{map_id}`

Authorization

This request requires authorization.

Parameters

Property Name	Type	Description	Notes
<code>map_id</code>	<code><string></code>	Mapping identifier	

Response Body

On success, the server returns a response body with the following structure:

JSON

```
{
  "app": string,
  "id": string,
  "hosts": [
    string
  ],
  "ports": [
    {
      "proto": string,
      "port": string
    }
  ],
  "auto_apps": [
    string
  ],
  "enabled": boolean,
  "override": string,
  "priority": string,
  "known_port": boolean
}
```

Example:

```
{
  "app": "test2",
  "auto_apps": [
    "Google",
    "Facebook"
  ],
  "enabled": true,
  "hosts": [],
  "id": "102",
  "known_port": false,
  "override": "Always",
  "ports": [],
  "priority": "25"
}
```

Property Name	Type	Description	Notes
<code>GetGeneralMapping</code>	<code><object></code>	Application mapping data	
<code>GetGeneralMapping.app</code>	<code><string></code>	Mapping name	
<code>GetGeneralMapping.id</code>	<code><string></code>	Mapping identifier	

<i>GetGeneralMapping.hosts</i>	<array of <string>>	List of hosts. Hosts can be IP addresses, CIDR blocks or host groups.	
<i>GetGeneralMapping.hosts[item]</i>	<string>	Host	Optional
<i>GetGeneralMapping.ports</i>	<array of <object>>	List of ports	
<i>GetGeneralMapping.ports[item]</i>	<object>	Port data	Optional
<i>GetGeneralMapping.ports[item].proto</i>	<string>	Protocol	
<i>GetGeneralMapping.ports[item].port</i>	<string>	Port	
<i>GetGeneralMapping.auto_apps</i>	<array of <string>>	List of auto-recognized application names	
<i>GetGeneralMapping.auto_apps[item]</i>	<string>	Auto-recognized application name	Optional
<i>GetGeneralMapping.enabled</i>	<boolean>	Mapping based tracking and reporting of the application is enabled/disabled	
<i>GetGeneralMapping.override</i>	<string>	Whether the general definition of the application overrides an auto-recognized definition. Always - unconditionally overrides any existing layer 7 application mapping. Unknown - applies to flows that did not match any auto-recognized applications or general rules.	Values: Always, Unknown
<i>GetGeneralMapping.priority</i>	<string>	Priority of the mapping	
<i>GetGeneralMapping.known_port</i>	<boolean>	Whether it is a system-defined mapping through a known protocol/port	

General Application Mappings: Create General Mapping

Create a new general application mapping using either hosts/ports or auto-recognized applications (but not both)

POST <https://{device}/api/mgmt.applications/1.0/mappings/general>

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

JSON

```
{
  "app": string,
  "hosts": string,
  "ports": string,
  "auto_apps": string,
  "enabled": boolean,
  "override": string
}
```

Example:

```
{
  "app": "test3",
  "ports": "udp/514,1024",
  "enabled": false,
  "override": "Unknown"
}
```

Property Name	Type	Description	Notes
<i>CreateGeneralMapping</i>	<object>	Application mapping data	
<i>CreateGeneralMapping.app</i>	<string>	Mapping name	
<i>CreateGeneralMapping.hosts</i>	<string>	Comma separated list of hosts formatted as a string. Hosts can be IP addresses, CIDR blocks or host groups.	Optional
<i>CreateGeneralMapping.ports</i>	<string>	Comma separated list of ports formatted as a string	Optional
<i>CreateGeneralMapping.auto_apps</i>	<string>	Comma separated list of auto-recognized application names	Optional
<i>CreateGeneralMapping.enabled</i>	<boolean>	Enable/disable mapping based tracking and reporting of the application	Optional

<code>CreateGeneralMapping.override</code>	<code><string></code>	Whether the general definition of the application should override an auto-recognized definition. Always - unconditionally override any existing layer 7 application mapping. Unknown - apply to flows that did not match any auto-recognized applications or general rules.	Optional; Default is Always; Values: Always, Unknown
--	-----------------------------	---	--

Response Body

On success, the server does not provide any body in the responses.

General Application Mappings: Update General Mapping

Update a general application mapping. If an app was originally created using hosts/ports, it cannot be updated using auto-recognized applications and vice versa.

```
PUT https://{device}/api/mgmt.applications/1.0/mappings/general/{map_id}
```

Authorization

This request requires authorization.

Parameters

Property Name	Type	Description	Notes
<code>map_id</code>	<code><string></code>	Mapping identifier	

Request Body

Provide a request body with the following structure:

JSON

```
{
  "app": string,
  "hosts": string,
  "ports": string,
  "auto_apps": string,
  "enabled": boolean,
  "override": string,
  "priority": string
}
```

Example:

```
{
  "app": "test3new",
  "ports": "udp/514,1024",
  "enabled": true,
  "override": "Always",
  "priority": "10"
}
```

Property Name	Type	Description	Notes
<code>UpdateGeneralMapping</code>	<code><object></code>	Application mapping data	
<code>UpdateGeneralMapping.app</code>	<code><string></code>	New mapping name	Optional
<code>UpdateGeneralMapping.hosts</code>	<code><string></code>	Comma separated list of hosts formatted as a string. Hosts can be IP addresses, CIDR blocks or host groups.	Optional
<code>UpdateGeneralMapping.ports</code>	<code><string></code>	Comma separated list of ports formatted as a string	Optional
<code>UpdateGeneralMapping.auto_apps</code>	<code><string></code>	Comma separated list of auto-recognized application names	Optional
<code>UpdateGeneralMapping.enabled</code>	<code><boolean></code>	Enable/disable mapping based tracking and reporting of the application	Optional
<code>UpdateGeneralMapping.override</code>	<code><string></code>	Whether the general definition of the application should override an auto-recognized definition. Always - unconditionally override any existing layer 7 application mapping. Unknown - apply to flows that did not match any auto-recognized applications or general rules.	Optional; Values: Always, Unknown
<code>UpdateGeneralMapping.priority</code>	<code><string></code>	Priority of the mapping. Must be between 1 and 2000.	Optional

Response Body

On success, the server does not provide any body in the responses.

General Application Mappings: Delete General Mappings

Delete multiple general application mappings

```
DELETE https://{device}/api/mgmt.applications/1.0/mappings/general/{map_ids}
```

Authorization

This request requires authorization.

Parameters

Property Name	Type	Description	Notes
<code>map_ids</code>	<code><string></code>	Comma separated list of mapping identifiers formatted as a string	

Response Body

On success, the server does not provide any body in the responses.

General Application Mappings: Import General Mappings

Import general application mappings from XML data

```
POST https://{device}/api/mgmt.applications/1.0/mappings/general/import
```

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

JSON

```
{
  "xml_data": string
}
```

Example:

```
{
  "xml_data": "<?xml version='1.0' encoding='UTF-8' ?>\n<AppMappings version='2'>\n  <AppMapping id='1' app='Aquis'
enabled='true' priority='1' override='2' known_port='false' >\n    <hosts>\n      <cidr value='224.0.121.0/24' />\n    </hosts>\n    <ports>\n      <protoport proto='17' port='33305-33315' />\n    </ports>\n    <auto_apps>\n    </auto_apps>\n  </AppMapping>\n  <AppMapping id='2' app='CIFS' enabled='true' priority='2' override='2' known_port='false' >\n    <hosts>\n      <cidr
value='0.0.0.0/' />\n    </hosts>\n    <ports>\n      <protoport proto='6' port='139' />\n    </ports>\n    <auto_apps>\n      <auto_apps>\n        <AppMapping id='3' app='Euronext'
enabled='true' priority='3' override='2' known_port='false' >\n          <hosts>\n            <cidr value='224.0.64.0/27' />\n          </hosts>\n          <ports>\n            <protoport proto='17' port='21020-21021' />\n            <protoport proto='17' port='21024-21025' />\n            <protoport proto='17'
port='21028-21047' />\n          </ports>\n          <auto_apps>\n            <auto_apps>\n              <AppMapping id='4' app='FTP' enabled='true' priority='4' override='2' known_port='false' >\n                <hosts>\n                  <cidr value='0.0.0.0/' />\n                </hosts>\n                <ports>\n                  <protoport proto='6' port='20-21' />\n                </ports>\n                <auto_apps>\n                </auto_apps>\n              </AppMapping>\n            </auto_apps>\n          </AppMapping>\n          <AppMapping id='5' app='FlowTraq' enabled='true' priority='5' known_port='false'
>\n            <hosts>\n              <cidr value='0.0.0.0/' />\n            </hosts>\n            <ports>\n              <protoport proto='6'
port='8184' />\n            </ports>\n            <auto_apps>\n            </auto_apps>\n          </AppMapping>\n          <AppMapping id='6' app='H.323' enabled='true' priority='6' override='2' known_port='false' >\n            <hosts>\n              <cidr
value='0.0.0.0/' />\n            </hosts>\n            <ports>\n              <protoport proto='6' port='1718-1720' />\n              <protoport proto='6' port='11720' />\n              <protoport proto='17' port='1300' />\n              <protoport
proto='17' port='1718-1720' />\n              <protoport proto='17' port='2517' />\n            </ports>\n            <auto_apps>\n            </auto_apps>\n          </AppMapping>\n          <AppMapping id='7' app='HTTP' enabled='true' priority='7' override='2' known_port='false' >\n            <hosts>\n              <cidr
value='0.0.0.0/' />\n            </hosts>\n            <ports>\n              <protoport proto='6' port='80' />\n            </ports>\n            <auto_apps>\n            </auto_apps>\n          </AppMapping>\n          <AppMapping id='8' app='LSE_ITCH' enabled='true' priority='8' override='2'
known_port='false' >\n            <hosts>\n              <cidr value='224.4.0.0/22' />\n              <cidr value='224.4.4.0/23' />\n              <cidr
value='224.4.6.0/24' />\n              <cidr value='224.4.10.0/23' />\n              <cidr value='224.4.12.0/23' />\n            </hosts>\n            <ports>\n              <protoport proto='17' port='60000' />\n              <protoport proto='17' port='60300' />\n              <protoport proto='17' port='60400' />\n              <protoport proto='17' port='61000' />\n              <protoport proto='17' port='61100' />\n              <protoport proto='17' port='61200' />\n              <protoport proto='17' port='61300' />\n              <protoport proto='17' port='61400' />\n              <protoport proto='17' port='61450' />\n            </ports>\n            <auto_apps>\n            </auto_apps>\n          </AppMapping>\n          <AppMapping id='9' app='LotusNotes' enabled='true'
priority='9' override='2' known_port='false' >\n            <hosts>\n              <cidr value='0.0.0.0/' />\n            </hosts>\n            <ports>\n              <protoport proto='6' port='1352' />\n            </ports>\n            <auto_apps>\n            </auto_apps>\n          </AppMapping>\n          <AppMapping id='10' app='MNMP' enabled='true' priority='10' override='3' known_port='false' >\n            <hosts>\n              <cidr
value='0.0.0.0/' />\n            </hosts>\n            <ports>\n              <protoport proto='6' port='41017-41019' />\n            </ports>\n            <auto_apps>\n            </auto_apps>\n          </AppMapping>\n          <AppMapping id='11' app='MSExchange' enabled='true'
priority='11' override='2' known_port='false' >\n            <hosts>\n              <cidr value='0.0.0.0/' />\n              <cidr value='::/0' />\n            </hosts>\n            <ports>\n              <protoport proto='6' port='7830' />\n            </ports>\n            <auto_apps>\n            </auto_apps>\n          </AppMapping>\n          <AppMapping id='12' app='MSSQL' enabled='true' priority='12' override='2' known_port='false' >\n            <hosts>\n              <cidr
value='0.0.0.0/' />\n              <cidr value='::/0' />\n            </hosts>\n            <ports>\n              <protoport proto='6' port='1433' />\n            </ports>\n            <auto_apps>\n            </auto_apps>\n          </AppMapping>\n          <AppMapping id='13' app='NFS' enabled='true' priority='13' override='2'
known_port='false' >\n            <hosts>\n              <cidr value='0.0.0.0/' />\n              <cidr value='::/0' />\n            </hosts>\n            <ports>\n              <protoport
proto='6' port='2049' />\n            </ports>\n            <auto_apps>\n            </auto_apps>\n          </AppMapping>\n          <AppMapping id='14'
app='NETFLOW' enabled='true' priority='14' override='2' known_port='false' >\n            <hosts>\n              <cidr value='0.0.0.0/' />\n              <cidr
value='::/0' />\n            </hosts>\n            <ports>\n              <protoport proto='17' port='2055' />\n              <protoport proto='17' port='9666' />\n            </ports>\n          </AppMappings>\n</AppMappings>
```

```
<protoport proto='17' port='9996' />|</ports>|</auto_apps>|</AppMapping>|<AppMapping id='15'
app='OracleJinitiator' enabled='true' priority='15' override='2' known_port='false' />|</hosts>|<cidr value='0.0.0/0' />|</hosts>|<ports>|<protoport proto='6' port='9000' />|</ports>|</auto_apps>|</AppMapping>|<AppMapping id='16' app='PITCH' enabled='true' priority='16' override='2' known_port='false'
>|</hosts>|<cidr value='224.0.83.0/28' />|</hosts>|<cidr value='224.0.83.32/28' />|</hosts>|<cidr value='224.0.83.64/28' />|</hosts>|<cidr value='224.0.83.96/28' />|</hosts>|<cidr value='224.0.84.128/28' />|</hosts>|<cidr value='224.0.85.16/28' />|</hosts>|<cidr
value='224.0.82.0/28' />|</hosts>|<cidr value='224.0.82.32/28' />|</hosts>|<cidr value='224.0.82.64/28' />|</hosts>|<cidr value='224.0.82.96/28' />|</hosts>|<cidr value='224.0.84.0/28' />|</hosts>|<cidr value='224.0.85.0/28' />|</hosts>|<cidr value='224.0.83.240/29' />|</hosts>|<cidr
value='224.0.83.248/29' />|</hosts>|<cidr value='224.0.83.252/29' />|</hosts>|<cidr value='224.0.83.232/29' />|</hosts>|<cidr value='224.0.84.168/29' />|</hosts>|<cidr value='224.0.84.160/29' />|</hosts>|<cidr value='224.0.85.40/29' />|</hosts>|<cidr
value='224.0.85.32/29' />|</hosts>|<ports>|<protoport proto='17' port='31101-31112' />|</ports>|<protoport proto='17'
port='31201-31212' />|</ports>|<protoport proto='17' port='31301-31312' />|</ports>|<protoport proto='17' port='31401-31412' />|</ports>|<protoport proto='17' port='31501-31512' />|</ports>|</auto_apps>|</AppMapping>|<AppMapping id='17' app='PacketAnalyzer' enabled='true' priority='17' override='2' known_port='false'
>|</hosts>|<cidr value='0.0.0/0' />|</hosts>|<ports>|<protoport proto='6' port='61898-61899' />|</ports>|</auto_apps>|</AppMapping>|<AppMapping id='18' app='SIP' enabled='true' priority='18' override='2'
known_port='false' />|</hosts>|<cidr value='0.0.0/0' />|</hosts>|<ports>|<protoport proto='6' port='5060-5061' />|</ports>|</auto_apps>|</AppMapping>|<AppMapping id='19' app='SSL' enabled='true' priority='19' override='2' known_port='false' />|</hosts>|<cidr value='0.0.0/0' />|</hosts>|<ports>|<protoport proto='6' port='443' />|</ports>|</auto_apps>|</AppMapping>|<AppMapping id='20' app='Skinny' enabled='true' priority='20'
override='2' known_port='false' />|</hosts>|<cidr value='0.0.0/0' />|</hosts>|<ports>|<protoport proto='6' port='2000' />|</ports>|</auto_apps>|</AppMapping>|<AppMapping id='21'
app='SnapMirror' enabled='true' priority='21' override='2' known_port='false' />|</hosts>|<cidr value='0.0.0/0' />|</hosts>|<ports>|<protoport proto='6' port='10565-10569' />|</ports>|</auto_apps>|</AppMapping>|<AppMapping id='22' app='SteelHead' enabled='true' priority='22' override='2'
known_port='false' />|</hosts>|<cidr value='0.0.0/0' />|</hosts>|<ports>|<protoport proto='6' port='7744' />|</ports>|</auto_apps>|</AppMapping>|<AppMapping id='23' app='X11' enabled='true' priority='23' override='2'
known_port='false' />|</hosts>|<cidr value='0.0.0/0' />|</hosts>|<ports>|<protoport proto='6' port='6000-6004' />|</ports>|</auto_apps>|</AppMapping>|<AppMapping id='24' app='Zoom' enabled='true' priority='24' override='2' known_port='false' />|</hosts>|<cidr value='3.7.35.0/25' />|</hosts>|<cidr value='3.21.137.128/25' />|</hosts>|<cidr value='3.22.11.0/24' />|</hosts>|<cidr value='3.23.93.0/24'
/>|</hosts>|<cidr value='3.25.41.128/25' />|</hosts>|<cidr value='3.25.42.0/25' />|</hosts>|<cidr value='3.25.49.0/24' />|</hosts>|<cidr value='3.80.20.128/25' />|</hosts>|<cidr value='3.96.19.0/24' />|</hosts>|<cidr value='3.101.32.128/25' />|</hosts>|<cidr value='3.101.52.0/25'
/>|</hosts>|<cidr value='3.104.34.128/25' />|</hosts>|<cidr value='3.120.121.0/25' />|</hosts>|<cidr value='3.127.194.128/25' />|</hosts>|<cidr value='3.208.72.0/25' />|</hosts>|<cidr value='3.211.241.0/25' />|</hosts>|<cidr value='3.235.69.0/25' />|</hosts>|<cidr value='3.235.82.0/23'
/>|</hosts>|<cidr value='3.235.71.128/25' />|</hosts>|<cidr value='3.235.72.128/25' />|</hosts>|<cidr value='3.235.73.0/25' />|</hosts>|<cidr value='3.235.96.0/23' />|</hosts>|<cidr value='4.34.125.128/25' />|</hosts>|<cidr value='4.35.64.128/25' />|</hosts>|<cidr value='8.5.128.0/23'
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}
```


Property Name	Type	Description	Notes
<i>ImportGeneralMappings</i>	<i><object></i>	Import data	
<i>ImportGeneralMappings.xml_data</i>	<i><string></i>	XML data to be imported, formatted as a string. Use the XML data (as string) obtained from the export API.	

Response Body

On success, the server does not provide any body in the responses.

General Application Mappings: Export General Mappings

Export general application mappings in XML

GET <https://{device}/api/mgmt.applications/1.0/mappings/general/export>

Authorization

This request requires authorization.

Response Body

On success, the server returns a response body with the following structure:

JSON

```
{
  "xml_data": string
}
```

Example:

```
{
  "xml_data": "<?xml version='1.0' encoding='UTF-8' ?>\n\n<AppMappings version='2'>\n\n  <AppMapping id='1' app='Aquis' enabled='true' priority='1' override='2' known_port='false' >\n\n    <hosts>\n\n      <cidr value='224.0.121.0/24' />\n\n    </hosts>\n\n    <ports>\n\n      <protoport proto='17' port='33305-33315' />\n\n    </ports>\n\n    <auto_apps>\n\n      </auto_apps>\n\n    </AppMapping>\n\n    <AppMapping id='2' app='CIF5' enabled='true' priority='2' override='2' known_port='false' >\n\n      <hosts>\n\n        <cidr value='0.0.0.0/0' />\n\n      </hosts>\n\n      <ports>\n\n        <protoport proto='6' port='139' />\n\n      </ports>\n\n      <auto_apps>\n\n        <protoport proto='6' port='445' />\n\n      </auto_apps>\n\n    </AppMapping>\n\n    <AppMapping id='3' app='Euronext' enabled='true' priority='3' override='2' known_port='false' >\n\n      <hosts>\n\n        <cidr value='224.0.64.0/27' />\n\n      </hosts>\n\n      <ports>\n\n        <protoport proto='17' port='21020-21021' />\n\n      </ports>\n\n      <auto_apps>\n\n        <protoport proto='17' port='21024-21025' />\n\n      </auto_apps>\n\n    </AppMapping>\n\n    <AppMapping id='4' app='FTP' enabled='true' priority='4' override='2' known_port='false' >\n\n      <hosts>\n\n        <cidr value='224.0.52.0/26' />\n\n      </hosts>\n\n      <ports>\n\n        <protoport proto='17' port='21028-21047' />\n\n      </ports>\n\n      <auto_apps>\n\n        <protoport proto='17' port='21054-21055' />\n\n      </auto_apps>\n\n    </AppMapping>\n\n    <AppMapping id='5' app='FlowTraq' enabled='true' priority='5' override='2' known_port='false' >\n\n      <hosts>\n\n        <cidr value='224.0.53.0/26' />\n\n      </hosts>\n\n      <ports>\n\n        <protoport proto='17' port='55001-55008' />\n\n      </ports>\n\n      <auto_apps>\n\n        <protoport proto='17' port='20-21' />\n\n      </auto_apps>\n\n    </AppMapping>\n\n    <AppMapping id='6' app='H.323' enabled='true' priority='6' override='2' known_port='false' >\n\n      <hosts>\n\n        <cidr value='0.0.0.0/0' />\n\n      </hosts>\n\n      <ports>\n\n        <protoport proto='6' port='8184' />\n\n      </ports>\n\n      <auto_apps>\n\n        <protoport proto='6' port='9640' />\n\n      </auto_apps>\n\n    </AppMapping>\n\n    <AppMapping id='7' app='HTTP' enabled='true' priority='7' override='2' known_port='false' >\n\n      <hosts>\n\n        <cidr value='0.0.0.0/0' />\n\n      </hosts>\n\n      <ports>\n\n        <protoport proto='6' port='1718-1720' />\n\n      </ports>\n\n      <auto_apps>\n\n        <protoport proto='6' port='11720' />\n\n      </auto_apps>\n\n    </AppMapping>\n\n    <AppMapping id='8' app='LSE_ITCH' enabled='true' priority='8' override='2' known_port='false' >\n\n      <hosts>\n\n        <cidr value='224.4.0.0/22' />\n\n      </hosts>\n\n      <ports>\n\n        <protoport proto='6' port='1300' />\n\n      </ports>\n\n      <auto_apps>\n\n        <protoport proto='6' port='1718-1720' />\n\n      </auto_apps>\n\n    </AppMapping>\n\n    <AppMapping id='9' app='LotusNotes' enabled='true' priority='9' override='2' known_port='false' >\n\n      <hosts>\n\n        <cidr value='0.0.0.0/0' />\n\n      </hosts>\n\n      <ports>\n\n        <protoport proto='6' port='1352' />\n\n      </ports>\n\n      <auto_apps>\n\n        <protoport proto='17' port='60000' />\n\n      </auto_apps>\n\n    </AppMapping>\n\n    <AppMapping id='10' app='MNMP' enabled='true' priority='10' override='3' known_port='false' >\n\n      <hosts>\n\n        <cidr value='0.0.0.0/0' />\n\n      </hosts>\n\n      <ports>\n\n        <protoport proto='6' port='41017-41019' />\n\n      </ports>\n\n      <auto_apps>\n\n        <protoport proto='17' port='61000' />\n\n      </auto_apps>\n\n    </AppMapping>\n\n    <AppMapping id='11' app='MSEExchange' enabled='true' priority='11' override='2' known_port='false' >\n\n      <hosts>\n\n        <cidr value='0.0.0.0/0' />\n\n      </hosts>\n\n     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```

```

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enabled='true' priority='24' override='2' known_port='false'>|<hosts>|<cidr value='3.7.35.0/25' />|<cidr value='3.21.137.128/25' />|<cidr value='3.22.11.0/24' />|<cidr value='3.23.93.0/24' />|<cidr value='3.25.41.128/25' />|<cidr value='3.25.42.0/25' />|<cidr value='3.25.49.0/24' />|<cidr value='3.80.20.128/25' />|<cidr value='3.96.19.0/24' />|<cidr value='3.101.32.128/25' />|<cidr value='3.101.52.0/25' />|<cidr value='3.104.34.128/25' />|<cidr value='3.120.121.0/25' />|<cidr value='3.127.194.128/25' />|<cidr value='3.208.72.0/25' />|<cidr value='3.211.241.0/25' />|<cidr value='3.235.69.0/25' />|<cidr value='3.235.82.0/23' />|<cidr value='3.235.71.128/25' />|<cidr value='3.235.72.128/25' />|<cidr value='3.235.73.0/25' />|<cidr value='3.235.96.0/23' />|<cidr value='4.34.125.128/25' />|<cidr value='4.35.64.128/25' />|<cidr value='8.5.128.0/23' />|<cidr value='13.52.6.128/25' />|<cidr value='13.52.146.0/25' />|<cidr value='18.157.88.0/24' />|<cidr value='18.205.93.128/25' />|<cidr value='50.239.202.0/23' />|<cidr value='50.239.204.0/24' />|<cidr value='52.61.100.128/25' />|<cidr value='52.81.151.128/25' />|<cidr value='52.81.215.0/24' />|<cidr value='52.202.62.192/26' />|<cidr value='52.215.168.0/25' />|<cidr value='64.125.62.0/24' />|<cidr value='64.211.144.0/24' />|<cidr value='65.39.152.0/24' />|<cidr value='69.174.57.0/24' />|<cidr value='69.174.108.0/22' />|<cidr value='99.79.20.0/25' />|<cidr value='101.36.167.0/24' />|<cidr value='103.122.166.0/23' />|<cidr value='111.33.115.0/25' />|<cidr value='111.33.181.0/25' />|<cidr value='115.110.154.192/26' />|<cidr value='115.114.56.192/26' />|<cidr value='115.114.115.0/26' />|<cidr value='115.114.131.0/26' />|<cidr value='120.29.148.0/24' />|<cidr value='129.151.0.0/19' />|<cidr value='129.151.40.0/22' />|<cidr value='129.151.48.0/20' />|<cidr value='129.159.0.0/20' />|<cidr value='129.159.160.0/19' />|<cidr value='129.159.208.0/20' />|<cidr value='130.61.164.0/22' />|<cidr value='134.224.0.0/16' />|<cidr value='140.238.128.0/24' />|<cidr value='140.238.232.0/22' />|<cidr value='144.195.0.0/16' />|<cidr value='147.124.96.0/19' />|<cidr value='149.137.0.0/17' />|<cidr value='152.67.20.0/24' />|<cidr value='152.67.118.0/24' />|<cidr value='152.67.152.0/21' />|<cidr value='152.67.168.0/22' />|<cidr value='152.67.180.0/24' />|<cidr value='152.67.184.0/22' />|<cidr value='152.67.240.0/21' />|<cidr value='158.101.64.0/24' />|<cidr value='158.101.184.0/22' />|<cidr value='160.1.56.128/25' />|<cidr value='161.189.199.0/25' />|<cidr value='161.199.136.0/22' />|<cidr value='162.12.232.0/22' />|<cidr value='162.255.36.0/22' />|<cidr value='165.254.88.0/23' />|<cidr value='168.138.16.0/22' />|<cidr value='168.138.48.0/24' />|<cidr value='168.138.56.0/21' />|<cidr value='168.138.72.0/24' />|<cidr value='168.138.74.0/25' />|<cidr value='168.138.80.0/21' />|<cidr value='168.138.96.0/22' />|<cidr value='168.138.116.0/22' />|<cidr value='168.138.244.0/24' />|<cidr value='170.114.0.0/16' />|<cidr value='173.231.80.0/20' />|<cidr value='192.204.12.0/22' />|<cidr value='193.122.16.0/20' />|<cidr value='193.122.32.0/20' />|<cidr value='193.122.208.0/20' />|<cidr value='193.122.224.0/20' />|<cidr value='193.122.240.0/20' />|<cidr value='193.123.0.0/19' />|<cidr value='193.123.40.0/21' />|<cidr value='193.123.176.0/20' />|<cidr value='193.123.128.0/19' />|<cidr value='193.123.168.0/21' />|<cidr value='193.123.192.0/19' />|<cidr value='198.251.128.0/17' />|<cidr value='202.177.207.128/27' />|<cidr value='204.80.104.0/21' />|<cidr value='204.141.28.0/22' />|<cidr value='207.226.132.0/24' />|<cidr value='209.9.211.0/24' />|<cidr value='209.9.215.0/24' />|<cidr value='213.19.144.0/24' />|<cidr value='213.19.153.0/24' />|<cidr value='213.244.140.0/24' />|<cidr value='221.122.88.64/27' />|<cidr value='221.122.88.128/25' />|<cidr value='221.122.89.128/25' />|<cidr value='221.123.139.192/27' />|<cidr value='2620:123:2000::/40' />|</hosts>|<ports>|<protoport proto='6' port='3478-3479' />|<protoport proto='6' port='8801-8802' />|<protoport proto='17' port='8801-8802' />|</ports>|<auto_apps>|</auto_apps>|</AppMapping>|<AppMapping id='162' app='test2' enabled='false' priority='26' override='3' known_port='false'>|<hosts>|<ports>|<protoport proto='6' port='3478-3479' />|<protoport proto='6' port='8801-8802' />|<protoport proto='17' port='8801-8802' />|</ports>|<auto_apps>|</auto_apps>|</AppMapping>|<AppMapping id='164' app='test2' enabled='false' priority='27' override='3' known_port='false'>|<hosts>|<ports>|<protoport proto='6' port='3478-3479' />|<protoport proto='6' port='8801-8802' />|<protoport proto='17' port='8801-8802' />|</ports>|<auto_apps>|</auto_apps>|</AppMapping>|<AppMapping id='165' app='test1' enabled='false' priority='28' override='3' known_port='false'>|<hosts>|<ports>|<protoport proto='6' port='3478-3479' />|<protoport proto='6' port='8801-8802' />|<protoport proto='17' port='8801-8802' />|</ports>|<auto_apps>|</auto_apps>|</AppMapping>|<AppMapping id='167' app='test3new' enabled='true' priority='29' override='3' known_port='false'>|<hosts>|<ports>|<protoport proto='6' port='3478-3479' />|<protoport proto='6' port='8801-8802' />|<protoport proto='17' port='8801-8802' />|</ports>|<auto_apps>|</auto_apps>|</AppMapping>|<AppMapping id='168' app='test3new' enabled='true' priority='25' override='3' known_port='false'>|<hosts>|<cidr value='0.0.0.0/0' />|<cidr value='::/0' />|</hosts>|<ports>|<protoport proto='6' port='1024' />|<protoport proto='17' port='514' />|</ports>|<auto_apps>|</auto_apps>|</AppMapping>|</AppMappings>"
}

```

Property Name	Type	Description	Notes
ExportGeneralMappings	<object>	Exported data	

<code>ExportGeneralMappings.xml_data</code>	<code><string></code>	Exported XML data, formatted as a string. Use this in the request body for the import API.	
---	-----------------------------	--	--

URL Application Mappings: Get URL Mappings

Get all URL application mappings

```
GET https://{device}/api/mgmt.applications/1.0/mappings/url
```

Authorization

This request requires authorization.

Response Body

On success, the server returns a response body with the following structure:

```
JSON
```

```
[
  {
    "app_id": string,
    "name": string,
    "enabled": boolean,
    "signature": {
      "url": [
        string
      ],
      "hex": [
        string
      ],
      "string": [
        string
      ]
    }
  }
]
```

Example:

```
[
  {
    "app_id": "60078",
    "name": "test1",
    "enabled": true,
    "signature": {
      "url": [
        "http://myserver.com/foo",
        "https://myserver.com/bar",
        "http://myserver.com/baz*"
      ]
    }
  },
  {
    "app_id": "21045",
    "name": "test2",
    "enabled": false,
    "signature": {
      "url": [
        "http://myapp.com/foo*"
      ]
    }
  },
  {
    "app_id": "7434",
    "name": "test3",
    "enabled": false,
    "signature": {
      "string": [
        "helloworld",
        "HELLOWORLD"
      ]
    }
  },
  {
    "app_id": "231",
    "name": "test4",
    "enabled": false,
    "signature": {
      "hex": [
        "ABC123",
        "def456"
      ]
    }
  }
]
```

Property Name	Type	Description	Notes
<i>GetURLMappings</i>	<array of <object>>	Application mappings data	
<i>GetURLMappings</i> [item]	<object>	Application mapping data	
<i>GetURLMappings</i> [item].app_id	<string>	Identifier	
<i>GetURLMappings</i> [item].name	<string>	Mapping name	
<i>GetURLMappings</i> [item].enabled	<boolean>	Mapping based tracking and reporting of the application is enabled/disabled	
<i>GetURLMappings</i> [item].signature	<object>	Signatures	
<i>GetURLMappings</i> [item].signature.url	<array of <string>>	List of URL signatures	Optional
<i>GetURLMappings</i> [item].signature.url[item]	<string>	URL signature	

<code>GetURLMappings[item].signature.hex</code>	<code><array of <string>></code>	List of hexadecimal signatures	Optional
<code>GetURLMappings[item].signature.hex[item]</code>	<code><string></code>	Hexadecimal signature	
<code>GetURLMappings[item].signature.string</code>	<code><array of <string>></code>	List of character string signatures	Optional
<code>GetURLMappings[item].signature.string[item]</code>	<code><string></code>	Character string signature	

URL Application Mappings: Get URL Mapping

Get a URL application mapping

```
GET https://{device}/api/mgmt.applications/1.0/mappings/url/{app_id}
```

Authorization

This request requires authorization.

Parameters

Property Name	Type	Description	Notes
<code>app_id</code>	<code><string></code>	Identifier	

Response Body

On success, the server returns a response body with the following structure:

JSON

```
{
  "app_id": string,
  "name": string,
  "enabled": boolean,
  "signature": {
    "url": [
      string
    ],
    "hex": [
      string
    ],
    "string": [
      string
    ]
  }
}
```

Example:

```
{
  "app_id": "60078",
  "name": "test1",
  "enabled": true,
  "signature": {
    "url": [
      "http://myserver.com/foo",
      "https://myserver.com/bar",
      "http://myserver.com/baz*"
    ]
  }
}
```

Property Name	Type	Description	Notes
<code>GetURLMapping</code>	<code><object></code>	Application mapping data	
<code>GetURLMapping.app_id</code>	<code><string></code>	Identifier	
<code>GetURLMapping.name</code>	<code><string></code>	Mapping name	
<code>GetURLMapping.enabled</code>	<code><boolean></code>	Mapping based tracking and reporting of the application is enabled/disabled	
<code>GetURLMapping.signature</code>	<code><object></code>	Signatures	
<code>GetURLMapping.signature.url</code>	<code><array of <string>></code>	List of URL signatures	Optional
<code>GetURLMapping.signature.url[item]</code>	<code><string></code>	URL signature	
<code>GetURLMapping.signature.hex</code>	<code><array of <string>></code>	List of hexadecimal signatures	Optional
<code>GetURLMapping.signature.hex[item]</code>	<code><string></code>	Hexadecimal signature	

<code>GetURLMapping.signature.string</code>	<code><array of <string>></code>	List of character string signatures	Optional
<code>GetURLMapping.signature.string[item]</code>	<code><string></code>	Character string signature	

URL Application Mappings: Create URL Mapping

Create a new URL application mapping.

POST `https://{device}/api/mgmt.applications/1.0/mappings/url`

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

JSON

```
{
  "name": string,
  "enabled": boolean,
  "signature": {
    "url": [
      string
    ]
  }
}
```

Example:

```
{
  "name": "test1",
  "enabled": true,
  "signature": {
    "url": [
      "http://myserver.com/foo",
      "https://myserver.com/bar",
      "http://myserver.com/baz*"
    ]
  }
}
```

Property Name	Type	Description	Notes
<code>CreateURLMapping</code>	<code><object></code>	Application mapping data	
<code>CreateURLMapping.name</code>	<code><string></code>	Mapping name	
<code>CreateURLMapping.enabled</code>	<code><boolean></code>	Enable/disable mapping based tracking and reporting of the application	Optional
<code>CreateURLMapping.signature</code>	<code><object></code>	Signatures. Legacy application mappings that were based on strings or hex strings instead of URLs are now read-only and cannot be created. Only URL based applications can be created.	
<code>CreateURLMapping.signature.url</code>	<code><array of <string>></code>	List of URL signatures. If you specify multiple URLs, the traffic needs to match only one. If more than one URL matches, the most specific URL that matches is used.	
<code>CreateURLMapping.signature.url[item]</code>	<code><string></code>	URL signature. URL must begin with http/https. An asterisk can be specified as a wildcard in the URL to match everything succeeding it.	

Response Body

On success, the server does not provide any body in the responses.

URL Application Mappings: Update URL Mapping

Update a general application mapping

PUT `https://{device}/api/mgmt.applications/1.0/mappings/url/{app_id}`

Authorization

This request requires authorization.

Parameters

Property Name	Type	Description	Notes
<i>app_id</i>	<i><string></i>	Identifier	

Request Body

Provide a request body with the following structure:

JSON

```
{
  "name": string,
  "enabled": boolean,
  "signature": {
    "url": [
      string
    ]
  }
}
```

Example:

```
{
  "name": "test1_new",
  "enabled": false,
  "signature": {
    "url": [
      "http://updated_myserver.com/foo",
      "https://myserver.com/bar",
      "http://myserver.com/baz*"
    ]
  }
}
```

Property Name	Type	Description	Notes
<i>UpdateURIMapping</i>	<i><object></i>	Application mapping data	
<i>UpdateURIMapping.name</i>	<i><string></i>	New mapping name	
<i>UpdateURIMapping.enabled</i>	<i><boolean></i>	Enable/disable mapping based tracking and reporting of the application	Optional
<i>UpdateURIMapping.signature</i>	<i><object></i>	Signatures. There may exist certain legacy application mappings that were based on strings or hex strings instead of URLs. These applications are now read-only and cannot be updated. Only the URL based applications can be updated.	
<i>UpdateURIMapping.signature.url</i>	<i><array of <string>></i>	List of URL signatures. All URLs must be specified in the signature for an update (and not just the new ones) as this operation overwrites the existing signatures. If you specify multiple URLs, the traffic needs to match only one. If more than one URL matches, the most specific URL that matches is used.	
<i>UpdateURIMapping.signature.url[item]</i>	<i><string></i>	URL signature. URL must begin with http/https. An asterisk can be specified as a wildcard in the URL to match everything succeeding it.	

Response Body

On success, the server does not provide any body in the responses.

URL Application Mappings: Delete URL Mappings

Delete multiple URL application mappings

```
DELETE https://{device}/api/mgmt.applications/1.0/mappings/url/{app_ids}
```

Authorization

This request requires authorization.

Parameters

Property Name	Type	Description	Notes
<i>app_ids</i>	<i><string></i>	Comma separated list of identifiers formatted as a string	

Response Body

On success, the server does not provide any body in the responses.

Error Codes

In the event that an error occurs while processing a request, the server will respond with appropriate HTTP status code and additional information in the response body:

```
{
  "error_id": "{error identifier}",
  "error_text": "{error description}",
  "error_info": {error specific data structure, optional}
}
```

The table below lists the possible errors and the associated HTTP status codes that may returned.

Error ID	HTTP Status	Comments
BAD REQUEST	400	Invalid argument
UNAUTHORIZED	401	Authentication failed
FORBIDDEN	403	No permission to access the requested resource
NOT FOUND	404	Content not found
METHOD NOT ALLOWED	405	Method not supported for the requested resource
INTERNAL SERVER ERROR	500	Internal server error
SERVICE UNAVAILABLE	503	Service is currently unavailable