

# **REST API for the AppFlow service. Includes Applications, Profiles, Rules, Topology v2.0**

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## Resource: reset

Reset all appflow configuration back to the factory default

```
http://{device}/api/sh.appflow/2.0/reset
```

JSON

```
null
```

Property Name	Type	Description	Notes
<i>reset</i>	<null>	Reset all appflow configuration back to the factory default	

## Links

### reset: set

```
POST http://{device}/api/sh.appflow/2.0/reset
```

#### Request Body

Do not provide a request body.

#### Response Body

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

## Resource: dpi\_info

Holds information about the DPI library that identifies Layer 7 protocols and built-in Applications in this version of the API.

```
http://{device}/api/sh.appflow/2.0/dpi_info
```

JSON

```
{  
  "version": string  
}
```

Property Name	Type	Description	Notes
<i>dpi_info</i>	<object>	Holds information about the DPI library that identifies Layer 7 protocols and built-in Applications in this version of the API.	Read-only;
<i>dpi_info.version</i>	<string>	The DPI version number. Incremented every time the DPI library is updated.	Read-only; Optional;

## Links

### dpi\_info: get

```
GET http://{device}/api/sh.appflow/2.0/dpi_info
```

#### Response Body

Returns a [dpi\\_info](#) data object.

## Resource: business\_criticalities

List of Business Criticalities. Business Criticality is one of the required properties of an Application and represents the business importance of an Application. This is a static list that cannot be modified.

```
http://{device}/api/sh.appflow/2.0/business_criticalities{?name}
```

## JSON

```
[
  {
    "id": integer,
    "name": string
  }
]
```

Property Name	Type	Description	Notes
<i>business_criticalities</i>	<array of <object>>	List of Business Criticalities. Business Criticality is one of the required properties of an Application and represents the business importance of an Application. This is a static list that cannot be modified.	
<i>business_criticalities</i> [items]	<object>		Read-only;
<i>id</i>	<integer>	Business Criticality ID	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Business Criticality	Read-only; Pattern: '^(\\S.*?)\\S\$';

## Links

### business\_criticalities: get

```
GET http://{device}/api/sh.appflow/2.0/business_criticalities{?name}
```

#### Response Body

Returns a [business\\_criticalities](#) data object.

## Resource: categories

List of Categories. Category is one of the required properties of an Application and represents the general function of an Application. This is a static list that cannot be modified.

```
http://{device}/api/sh.appflow/2.0/categories{?name}
```

## JSON

```
[
  {
    "id": integer,
    "name": string
  }
]
```

Property Name	Type	Description	Notes
<i>categories</i>	<array of <object>>	List of Categories. Category is one of the required properties of an Application and represents the general function of an Application. This is a static list that cannot be modified.	
<i>categories</i> [items]	<object>		Read-only;
<i>id</i>	<integer>	Category ID	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Category	Read-only; Pattern: '^[a-zA-Z0-9_-]+\$';

## Links

### categories: get

```
GET http://{device}/api/sh.appflow/2.0/categories{?name}
```

#### Response Body

Returns a [categories](#) data object.

## Resource: traffic types

## List of Traffic Types

```
http://{device}/api/sh.appflow/2.0/traffic_types{?name}
```

### JSON

```
[
  {
    "id": integer,
    "name": string
  }
]
```

Property Name	Type	Description	Notes
<i>traffic_types</i>	<array of <object>>	List of Traffic Types	
<i>traffic_types[items]</i>	<object>		
<i>id</i>	<integer>	Traffic Type ID	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Traffic Type	Pattern: '^[a-zA-Z0-9_-]+\$';

## Links

### traffic\_types: get

```
GET http://{device}/api/sh.appflow/2.0/traffic_types{?name}
```

#### Response Body

Returns a [traffic\\_types](#) data object.

## Resource: securitylevels

### List of Security Levels

```
http://{device}/api/sh.appflow/2.0/securitylevels{?name}
```

### JSON

```
[
  {
    "id": integer,
    "name": string
  }
]
```

Property Name	Type	Description	Notes
<i>securitylevels</i>	<array of <object>>	List of Security Levels	
<i>securitylevels[items]</i>	<object>		
<i>id</i>	<integer>	Security Level ID	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Security Level Name	Pattern: '^[a-zA-Z0-9_-]+\$';

## Links

### securitylevels: get

```
GET http://{device}/api/sh.appflow/2.0/securitylevels{?name}
```

#### Response Body

Returns a [securitylevels](#) data object.

---

## Resource: networks

List of Networks

```
http://{device}/api/sh.appflow/2.0/networks{?is_default,parent_id,name,virtual}
```

JSON

```
[ network ]
```

Property Name	Type	Description	Notes
<i>networks</i>	<i>&lt;array of &lt;network&gt;&gt;</i>	List of Networks	
<i>networks[items]</i>	<i>&lt;network&gt;</i>	Network object	

---

## Links

### networks: create

```
POST http://{device}/api/sh.appflow/2.0/networks{?is_default,parent_id,name,virtual}
```

Request Body

Provide a [network](#) data object.

Response Body

Returns a [network](#) data object.

### networks: set

```
PUT http://{device}/api/sh.appflow/2.0/networks{?is_default,parent_id,name,virtual}
```

Request Body

Provide an [empty\\_collection](#) data object.

Response Body

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

### networks: get

```
GET http://{device}/api/sh.appflow/2.0/networks{?is_default,parent_id,name,virtual}
```

Response Body

Returns a [networks](#) data object.

---

## Resource: network

Network object

```
http://{device}/api/sh.appflow/2.0/networks/items/{id}
```

JSON

```
{  
  "id": integer,  
  "name": string,  
  "secllevel_id": integer,  
  "secllevel_name": string,  
  "parent_id": multiple,  
  "is_public": boolean,  
  "is_default": boolean  
}
```

Property Name	Type	Description	Notes
<i>network</i>	<object>	Network object	Required properties: [name, seclevel_id];
<i>id</i>	<integer>	Network ID	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Network Name	Pattern: '^(\\S.*?)\\S\$';
<i>seclevel_id</i>	<integer>	Network Security Level ID	Read-only; Range: 1 to 18446744073709551615;
<i>seclevel_name</i>	<string>	Network Security Level Name	Read-only; Pattern: '^([a-zA-Z0-9_-]+)\$';
<i>network.parent_id</i>	<multiple>	The parent physical network for a virtual network. A virtual network uses a higher security level than the associated physical network	Read-only; Optional;
<i>network.parent_id.anyOf[0]</i>	<identifier>	Generic numeric identifier	Read-only;
<i>network.parent_id.anyOf[1]</i>	<null>		Read-only;
<i>network.is_public</i>	<boolean>	Is the network public or private?	Optional;
<i>network.is_default</i>	<boolean>	Is this the default network?	Read-only; Optional;

## Links

### network: get

```
GET http://{device}/api/sh.appflow/2.0/networks/items/{id}
```

#### Response Body

Returns a [network](#) data object.

### network: set

```
PUT http://{device}/api/sh.appflow/2.0/networks/items/{id}
```

#### Request Body

Provide a [network](#) data object.

#### Response Body

Returns a [network](#) data object.

### network: delete

```
DELETE http://{device}/api/sh.appflow/2.0/networks/items/{id}
```

#### Response Body

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

## Relations

### network: instances

Related resource

[networks](#)

### network: uplinks

Related resource

[uplinks](#)

Variables

Related var	Data value for replacement
network_id	0/id

### network: parent

Related resource

[network](#)

Variables

Related var	Data value for replacement
id	0/parent_id

## network: child

Related resource

[networks](#)

Variables

Related var	Data value for replacement
parent_id	0/id

## network: seclevel

Related resource

[securitylevels](#)

Variables

Related var	Data value for replacement
id	0/seclevel_id

## network: full

Related resource

[network](#)

Variables

Related var	Data value for replacement
id	0/id

---

## Resource: sitetags

List of Site Tags

```
http://{device}/api/sh.appflow/2.0/sitetags{?is_built_in,name}
```

JSON

```
[ sitetag ]
```

Property Name	Type	Description	Notes
<i>sitetags</i>	<array of <i>sitetag</i>>	List of Site Tags	
<i>sitetags</i> [items]	<i>sitetag</i>	A Site Tag Resource	

---

## Links

### sitetags: get

```
GET http://{device}/api/sh.appflow/2.0/sitetags{?is_built_in,name}
```

Response Body

Returns a [sitetags](#) data object.

## sitetags: create

```
POST http://{device}/api/sh.appflow/2.0/sitetags{?is_built_in,name}
```

### Request Body

Provide a [sitetag](#) data object.

### Response Body

Returns a [sitetag](#) data object.

## sitetags: set

```
PUT http://{device}/api/sh.appflow/2.0/sitetags{?is_built_in,name}
```

### Request Body

Provide an [empty\\_collection](#) data object.

### Response Body

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

---

## Resource: sitetag

A Site Tag Resource

```
http://{device}/api/sh.appflow/2.0/sitetags/items/{id}
```

### JSON

```
{
  "id": <identifier>,
  "name": <name>,
  "is_built_in": <boolean>,
  "sites": [
    {
      "id": <identifier>,
      "name": <name>
    }
  ]
}
```

Property Name	Type	Description	Notes
<i>sitetag</i>	<object>	A Site Tag Resource	Required properties: [name];
<i>sitetag.id</i>	<identifier>	Generic numeric identifier	Read-only;
<i>sitetag.name</i>	<name>	Generic name field, only alphanumeric '-' and '_' allowed	Pattern: '^[a-zA-Z0-9_-]+\$';
<i>sitetag.is_built_in</i>	<boolean>	A flag that specifies whether the tag is built in and therefore cannot be deleted.	Read-only; Optional;
<i>sitetag.sites</i>	<array of <object>>	List of sites tagged with this tag	Read-only; Optional;
<i>sitetag.sites[items]</i>	<object>		Read-only;
<i>sitetag.sites[items].id</i>	<identifier>	Generic numeric identifier	Read-only;
<i>sitetag.sites[items].name</i>	<name>	Generic name field, only alphanumeric '-' and '_' allowed	Pattern: '^[a-zA-Z0-9_-]+\$';

---

## Links

### sitetag: get

```
GET http://{device}/api/sh.appflow/2.0/sitetags/items/{id}
```

### Response Body

Returns a [sitetag](#) data object.

### sitetag: set



```
PUT http://{device}/api/sh.appflow/2.0/sitetags/items/{id}
```

#### Request Body

Provide a [sitetag](#) data object.

#### Response Body

Returns a [sitetag](#) data object.

### sitetag: delete

```
DELETE http://{device}/api/sh.appflow/2.0/sitetags/items/{id}
```

#### Response Body

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

## Relations

### sitetag: instances

Related resource

[sitetags](#)

### sitetag: full

Related resource

[sitetag](#)

Variables

Related var	Data value for replacement
id	0/id

## Resource: sites

List of Sites

```
http://{device}/api/sh.appflow/2.0/sites{?is_local,is_default,ob_qos_profile_id,name,ib_qos_profile_id}
```

JSON

```
[ site ]
```

Property Name	Type	Description	Notes
<i>sites</i>	<array of < <a href="#">site</a> >>	List of Sites	
<i>sites</i> [items]	< <a href="#">site</a> >	Site object	

## Links

### sites: create

```
POST http://{device}/api/sh.appflow/2.0/sites{?is_local,is_default,ob_qos_profile_id,name,ib_qos_profile_id}
```

#### Request Body

Provide a [site](#) data object.

#### Response Body

Returns a [site](#) data object.

## sites: set

```
PUT http://{device}/api/sh.appflow/2.0/sites/{?is_local,is_default,ob_qos_profile_id,name,ib_qos_profile_id}
```

### Request Body

Provide an [empty\\_collection](#) data object.

### Response Body

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

## sites: get

```
GET http://{device}/api/sh.appflow/2.0/sites/{?is_local,is_default,ob_qos_profile_id,name,ib_qos_profile_id}
```

### Response Body

Returns a [sites](#) data object.

## Resource: site

Site object

```
http://{device}/api/sh.appflow/2.0/sites/items/{id}
```

### JSON

```
{
  "id": integer,
  "name": string,
  "is_local": boolean,
  "is_default": boolean,
  "tags": [
    {
      "id": identifier,
      "name": string,
      "is_built_in": boolean
    }
  ],
  "ob_qos_profile_id": integer,
  "ob_qos_profile": string,
  "ib_qos_profile_id": integer,
  "ib_qos_profile": string
}
```

Property Name	Type	Description	Notes
site	<object>	Site object	Required properties: [name, is_local];
id	<integer>	Site ID	Read-only; Range: 1 to 18446744073709551615;
name	<string>	Site Name	Pattern: '^(\\S.)*?\\S\$';
site.is_local	<boolean>	Is the site local or remote?	
site.is_default	<boolean>	Is this the default site?	Read-only; Optional;
site.tags	<array of <object>>		Optional;
site.tags[items]	<object>		Required properties: [id];
site.tags[items].id	<identifier>	Generic numeric identifier	Read-only;
name	<string>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\\S.)*?\\S\$';
site.tags[items].is_built_in	<boolean>		Read-only; Optional;
ob_qos_profile_id	<integer>	Outbound QoS profile ID	Read-only; Range: 1 to 18446744073709551615;
site.ob_qos_profile	<string>	Outbound QoS profile name	Read-only; Optional;
ib_qos_profile_id	<integer>	Inbound QoS profile ID	Read-only; Range: 1 to 18446744073709551615;
site.ib_qos_profile	<string>	Inbound QoS profile name	Read-only; Optional;

## Links

## site: get

```
GET http://{device}/api/sh.appflow/2.0/sites/items/{id}
```

### Response Body

Returns a [site](#) data object.

## site: set

```
PUT http://{device}/api/sh.appflow/2.0/sites/items/{id}
```

### Request Body

Provide a [site](#) data object.

### Response Body

Returns a [site](#) data object.

## site: delete

```
DELETE http://{device}/api/sh.appflow/2.0/sites/items/{id}
```

### Response Body

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

---

## Relations

### site: instances

#### Related resource

[sites](#)

### site: areas

#### Related resource

[areas](#)

#### Variables

Related var	Data value for replacement
site_id	0/id

### site: uplinks

#### Related resource

[uplinks](#)

#### Variables

Related var	Data value for replacement
site_id	0/id

### site: ob\_qos\_profile

#### Related resource

[qos\\_profile](#)

#### Variables

Related var	Data value for replacement
id	0/ob_qos_profile_id

## site: ib\_qos\_profile

Related resource

[qos\\_profile](#)

Variables

Related var	Data value for replacement
id	0/ib_qos_profile_id

## site: full

Related resource

[site](#)

Variables

Related var	Data value for replacement
id	0/id

---

## Resource: areas

List of Areas

```
http://{device}/api/sh.appflow/2.0/areas{?display_id,is_default,site_id}
```

JSON

```
[ area ]
```

Property Name	Type	Description	Notes
<i>areas</i>	<i>&lt;array of &lt;area&gt;&gt;</i>	List of Areas	
<i>areas[items]</i>	<i>&lt;area&gt;</i>	Area Object, i.e., subnets reachability for peers.	

---

## Links

### areas: create

```
POST http://{device}/api/sh.appflow/2.0/areas{?display_id,is_default,site_id}
```

Request Body

Provide an [area](#) data object.

Response Body

Returns an [area](#) data object.

### areas: get

```
GET http://{device}/api/sh.appflow/2.0/areas{?display_id,is_default,site_id}
```

Response Body

Returns an [areas](#) data object.

### areas: set

```
PUT http://{device}/api/sh.appflow/2.0/areas{?display_id,is_default,site_id}
```

Request Body

Provide an [empty\\_collection](#) data object.

## Response Body

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

## Resource: area

Area Object, i.e., subnets reachability for peers.

```
http://{device}/api/sh.appflow/2.0/areas/items/{id}{?is_default}
```

### JSON

```
{
  "id": integer,
  "site_id": integer,
  "site_name": string,
  "display_id": integer,
  "is_default": boolean,
  "peers": [ ipv4address ],
  "subnets": [ ipv4prefix ]
}
```

Property Name	Type	Description	Notes
area	<object>	Area Object, i.e., subnets reachability for peers.	Required properties: [site_id, peers, subnets];
id	<integer>	Area ID	Read-only; Range: 1 to 18446744073709551615;
site_id	<integer>	Reference to the Site	Read-only; Range: 1 to 18446744073709551615;
site_name	<string>	Site Name	Read-only; Pattern: '^(\\S.*?)?\$';
display_id	<integer>	Display ID. Auto-incrementing, and unique within the site	Read-only; Range: 1 to 18446744073709551615;
area.is_default	<boolean>	Is the default area ?	Read-only; Optional;
area.peers	<array of <ipv4address>>	List of Peers	
area.peers[items]	<ipv4address>	IPv4 address (x.y.z.k)	Pattern: '^((?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?\\.){3}(?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?)\$';
area.subnets	<array of <ipv4prefix>>	List of Subnets	
area.subnets[items]	<ipv4prefix>	IPv4 prefix (x.y.z.k/mask)	Pattern: '^((?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?\\.){3}(?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?)/(3[012] [12]?[0-9])\$';

## Links

### area: get

```
GET http://{device}/api/sh.appflow/2.0/areas/items/{id}{?is_default}
```

## Response Body

Returns an [area](#) data object.

### area: set

```
PUT http://{device}/api/sh.appflow/2.0/areas/items/{id}{?is_default}
```

## Request Body

Provide an [area](#) data object.

## Response Body

Returns an [area](#) data object.

### area: delete

```
DELETE http://{device}/api/sh.appflow/2.0/areas/items/{id}{?is_default}
```

## Response Body

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

---

## Relations

### area: site

Related resource

[site](#)

Variables

Related var	Data value for replacement
id	0/site_id

### area: full

Related resource

[area](#)

Variables

Related var	Data value for replacement
id	0/id

---

## Resource: uplinks

List of Uplinks

`http://{device}/api/sh.appflow/2.0/uplinks{?name,network_id,site_id,virtual,is_default,parent_id,is_ps_capable}`

### JSON

```
[
  {
    "id": integer,
    "name": string,
    "site_id": integer,
    "network_id": integer,
    "parent_id": integer,
    "is_default": boolean,
    "is_ps_capable": boolean,
    "interface": string
  }
]
```

Property Name	Type	Description	Notes
<i>uplinks</i>	<array of <object>>	List of Uplinks	
<i>uplinks[items]</i>	<object>		
<i>id</i>	<integer>	Uplink ID	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Uplink Name	Pattern: '^(S.*?)?\$';
<i>site_id</i>	<integer>	Reference to the Site	Read-only; Range: 1 to 18446744073709551615;
<i>network_id</i>	<integer>	Reference to the Network	Read-only; Range: 1 to 18446744073709551615;
<i>parent_id</i>	<integer>	The parent physical uplink for a virtual uplink	Read-only; Range: 1 to 18446744073709551615;
<i>uplinks[items].is_default</i>	<boolean>	Is this a default uplink?	Read-only; Optional;
<i>uplinks[items].is_ps_capable</i>	<boolean>	Is this a path-selection capable uplink?	Read-only; Optional;
<i>uplinks[items].interface</i>	<string>	Steelhead Interface identifier	Optional;

---

## Links

## uplinks: create

```
POST http://{device}/api/sh.appflow/2.0/uplinks{?name,network_id,site_id,virtual,is_default,parent_id,is_ps_capable}
```

### Request Body

Provide an [uplink](#) data object.

### Response Body

Returns an [uplink](#) data object.

## uplinks: set

```
PUT http://{device}/api/sh.appflow/2.0/uplinks{?name,network_id,site_id,virtual,is_default,parent_id,is_ps_capable}
```

### Request Body

Provide an [empty\\_collection](#) data object.

### Response Body

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

## uplinks: get

```
GET http://{device}/api/sh.appflow/2.0/uplinks{?name,network_id,site_id,virtual,is_default,parent_id,is_ps_capable}
```

### Response Body

Returns an [uplinks](#) data object.

---

## Resource: uplink

Uplink object

```
http://{device}/api/sh.appflow/2.0/uplinks/items/{id}
```

### JSON

```
{
  "id": integer,
  "name": string,
  "site_id": integer,
  "site_name": string,
  "network_id": integer,
  "network_name": string,
  "gateway_ip": string,
  "interface": string,
  "bandwidth_up": integer,
  "bandwidth_down": integer,
  "is_firewalled": boolean,
  "is_public": boolean,
  "parent_id": multiple,
  "probe_dscp": integer,
  "probe_timeout": integer,
  "probe_threshold": integer,
  "seclvl_id": integer,
  "is_default": boolean,
  "is_ps_capable": boolean
}
```

Property Name	Type	Description	Notes
<i>uplink</i>	<object>	Uplink object	Required properties: [name, site_id, network_id, bandwidth_up, bandwidth_down];
<i>id</i>	<integer>	Uplink ID	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Uplink Name	Pattern: '^(\\S.*?)\\S\$';
<i>site_id</i>	<integer>	Reference to the Site	Read-only; Range: 1 to 18446744073709551615;
<i>site_name</i>	<string>	Site Name	Read-only; Pattern: '^(\\S.*?)\\S\$';

<i>network_id</i>	<i>&lt;integer&gt;</i>	Reference to the Network	Read-only; Range: 1 to 18446744073709551615;
<i>network_name</i>	<i>&lt;string&gt;</i>	Network Name	Read-only; Pattern: '^(\S.*?)\S\$';
<i>gateway_ip</i>	<i>&lt;string&gt;</i>	IP address of the Gateway	Pattern: '^(?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?)\.(?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?)\$';
<i>uplink.interface</i>	<i>&lt;string&gt;</i>	Steelhead Interface identifier	Optional;
<i>uplink.bandwidth_up</i>	<i>&lt;integer&gt;</i>	Upload Bandwidth, in kbps	Range: 1 to 4294967295;
<i>uplink.bandwidth_down</i>	<i>&lt;integer&gt;</i>	Download Bandwidth, in kbps	Range: 1 to 4294967295;
<i>uplink.is_firewalled</i>	<i>&lt;boolean&gt;</i>	Indicates whether the SteelHead accessing this uplink is behind a firewall.	Optional;
<i>uplink.is_public</i>	<i>&lt;boolean&gt;</i>	Indicates whether the uplink network is using public addressing.	Read-only; Optional;
<i>uplink.parent_id</i>	<i>&lt;multiple&gt;</i>	The parent physical uplink for a virtual uplink. A virtual uplink uses a higher security level than the associated physical uplink.	Read-only; Optional;
<i>uplink.parent_id.anyOf[0]</i>	<i>&lt;identifier&gt;</i>	Generic numeric identifier	Read-only;
<i>uplink.parent_id.anyOf[1]</i>	<i>&lt;null&gt;</i>		Read-only;
<i>probe_dscp</i>	<i>&lt;integer&gt;</i>	DSCP marking for path probe packets	Range: 0 to 63;
<i>uplink.probe_timeout</i>	<i>&lt;integer&gt;</i>	Timeout in seconds, for path probe packets	Optional; Range: 1 to 65535;
<i>uplink.probe_threshold</i>	<i>&lt;integer&gt;</i>	Number of probes to detect a path as UP/DOWN	Optional; Range: 1 to 65535;
<i>seclvl_id</i>	<i>&lt;integer&gt;</i>	Uplink Security level. Inherited from Network.	Read-only; Range: 1 to 18446744073709551615;
<i>uplink.is_default</i>	<i>&lt;boolean&gt;</i>	Is this a default uplink?	Read-only; Optional;
<i>uplink.is_ps_capable</i>	<i>&lt;boolean&gt;</i>	Is this a path-selection capable uplink?	Read-only; Optional;

## Links

### uplink: get

```
GET http://{device}/api/sh.appflow/2.0/uplinks/items/{id}
```

#### Response Body

Returns an [uplink](#) data object.

### uplink: set

```
PUT http://{device}/api/sh.appflow/2.0/uplinks/items/{id}
```

#### Request Body

Provide an [uplink](#) data object.

#### Response Body

Returns an [uplink](#) data object.

### uplink: delete

```
DELETE http://{device}/api/sh.appflow/2.0/uplinks/items/{id}
```

#### Response Body

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

## Relations

### uplink: instances

Related resource

[uplinks](#)

### uplink: network



Related resource

[network](#)

Variables

Related var	Data value for replacement
id	0/network_id

### **uplink: site**

Related resource

[site](#)

Variables

Related var	Data value for replacement
id	0/site_id

### **uplink: parent**

Related resource

[uplink](#)

Variables

Related var	Data value for replacement
id	0/parent_id

### **uplink: child**

Related resource

[uplinks](#)

Variables

Related var	Data value for replacement
parent_id	0/id

### **uplink: seclevel**

Related resource

[securitylevels](#)

Variables

Related var	Data value for replacement
id	0/seclevel_id

### **uplink: path\_rules**

Related resource

[path\\_rules](#)

Variables

Related var	Data value for replacement
uplink_id	0/id

---

## **Resource: path\_rules**

List of Path-Selection Rules

`http://{device}/api/sh.appflow/2.0/path_rules{?is_default,apptag_id,site_id,app_id,uplink_id}`

## JSON

```
[
  {
    "id": identifier,
    "site_name": unrestricted_name,
    "app_name": unrestricted_name,
    "position": integer
  }
]
```

Property Name	Type	Description	Notes
<i>path_rules</i>	<i>&lt;array of &lt;object&gt;&gt;</i>	List of Path-Selection Rules	
<i>path_rules</i> [items]	<i>&lt;object&gt;</i>		Required properties: [id, position];
<i>path_rules</i> [items].id	<i>&lt;identifier&gt;</i>	Generic numeric identifier	Read-only;
<i>path_rules</i> [items].site_name	<i>&lt;unrestricted_name&gt;</i>	Generic name field, all characters allowed except for leading and trailing whitespace	Pattern: '^(\\S.*?)\\S\$';
<i>path_rules</i> [items].app_name	<i>&lt;unrestricted_name&gt;</i>	Generic name field, all characters allowed except for leading and trailing whitespace	Pattern: '^(\\S.*?)\\S\$';
<i>path_rules</i> [items].position	<i>&lt;integer&gt;</i>		

## Links

### path\_rules: create

```
POST http://{device}/api/sh.appflow/2.0/path_rules{?is_default,apptag_id,site_id,app_id,uplink_id}
```

#### Request Body

Provide a [path\\_rule](#) data object.

#### Response Body

Returns a [path\\_rule](#) data object.

### path\_rules: get

```
GET http://{device}/api/sh.appflow/2.0/path_rules{?is_default,apptag_id,site_id,app_id,uplink_id}
```

#### Response Body

Returns a [path\\_rules](#) data object.

### path\_rules: set

Updates the positions of the path-selection rules.

```
PUT http://{device}/api/sh.appflow/2.0/path_rules{?is_default,apptag_id,site_id,app_id,uplink_id}
```

#### Request Body

Provide a [path\\_rules](#) data object.

#### Response Body

Returns a [path\\_rules](#) data object.

### path\_rules: clear

Deletes all the path-selection rule instances.

```
POST http://{device}/api/sh.appflow/2.0/path_rules/clear
```

#### Request Body

Do not provide a request body.

#### Response Body

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

# Resource: path\_rule

## Path-Selection Rule Object

http://{device}/api/sh.appflow/2.0/path\_rules/items/{id}

### JSON

```
{
  "id": identifier,
  "site_id": multiple,
  "site_name": string,
  "sitetag_id": multiple,
  "app_id": multiple,
  "app_name": string,
  "apptag_id": multiple,
  "apptag_name": string,
  "uplinks": [
    {
      "uplink_id": multiple,
      "uplink_dscp": multiple,
      <prop>: any
    }
  ],
  "default_action_id": integer,
  "is_default": boolean,
  "position": integer
}
```

Property Name	Type	Description	Notes
<i>path_rule</i>	<object>	Path-Selection Rule Object	
<i>path_rule.id</i>	<identifier>	Generic numeric identifier	Read-only;
<i>path_rule.site_id</i>	<multiple>	Site ID. Either Site ID or SiteTag ID can be specified, but not both.	Optional;
<i>path_rule.site_id.anyOf[0]</i>	<integer>		
<i>path_rule.site_id.anyOf[1]</i>	<null>		
<i>site_name</i>	<string>	Site Name	Read-only; Pattern: '^(\S.*?)\S\$';
<i>path_rule.sitetag_id</i>	<multiple>	SiteTag ID. Either Site ID or SiteTag ID can be specified, but not both.	Optional;
<i>path_rule.sitetag_id.anyOf[0]</i>	<integer>		
<i>path_rule.sitetag_id.anyOf[1]</i>	<null>		
<i>path_rule.app_id</i>	<multiple>	Application ID. Either Application ID or ApplicationTag ID can be specified, but not both.	Optional;
<i>path_rule.app_id.anyOf[0]</i>	<application_identifier>	Application numeric identifier	
<i>path_rule.app_id.anyOf[1]</i>	<null>		
<i>app_name</i>	<string>	Application Name	Read-only; Pattern: '^(\S.*?)\S\$';
<i>path_rule.apptag_id</i>	<multiple>	ApplicationTag ID. Either Application ID or ApplicationTag ID can be specified, but not both.	Optional;
<i>path_rule.apptag_id.anyOf[0]</i>	<integer>		
<i>path_rule.apptag_id.anyOf[1]</i>	<null>		
<i>apptag_name</i>	<string>	ApplicationTag Name	Read-only; Pattern: '^(\S.*?)\S\$';
<i>path_rule.uplinks</i>	<array of <object>>	Uplinks specified for the rule	Optional;
<i>path_rule.uplinks[items]</i>	<object>		
<i>path_rule.uplinks[items].uplink_id</i>	<multiple>		Optional;
<i>path_rule.uplinks[items].uplink_id.anyOf[0]</i>	<integer>		
<i>path_rule.uplinks[items].uplink_id.anyOf[1]</i>	<null>		
<i>path_rule.uplinks[items].uplink_dscp</i>	<multiple>		Optional;
<i>path_rule.uplinks[items].uplink_dscp.anyOf[0]</i>	<dscp_ps_rule>	For extended DSCP fields. Used for the DSCP passed to the data-path. It assumes values from 0 to 63 and values to trigger some extra actions on DSCP: * 255 to `preserve` the DSCP from inner to outer channel and the other way around.	
<i>path_rule.uplinks[items].uplink_dscp.anyOf[1]</i>	<null>		
<i>path_rule.uplinks[items].&lt;prop&gt;</i>	<any>		Optional;

<code>path_rule.default_action_id</code>	<code>&lt;integer&gt;</code>		Optional;
<code>path_rule.is_default</code>	<code>&lt;boolean&gt;</code>	Is the path-selection rule a default rule?	Read-only; Optional;
<code>path_rule.position</code>	<code>&lt;integer&gt;</code>	Position of the path-selection rule	Read-only; Optional;

## Links

### path\_rule: get

```
GET http://{device}/api/sh.appflow/2.0/path_rules/items/{id}
```

#### Response Body

Returns a [path\\_rule](#) data object.

### path\_rule: set

```
PUT http://{device}/api/sh.appflow/2.0/path_rules/items/{id}
```

#### Request Body

Provide a [path\\_rule](#) data object.

#### Response Body

Returns a [path\\_rule](#) data object.

### path\_rule: delete

```
DELETE http://{device}/api/sh.appflow/2.0/path_rules/items/{id}
```

#### Response Body

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

## Relations

### path\_rule: instances

#### Related resource

[path\\_rules](#)

### path\_rule: uplink\_1

#### Related resource

[uplink](#)

#### Variables

Related var	Data value for replacement
id	0/uplinks/0/uplink_id

### path\_rule: uplink\_2

#### Related resource

[uplink](#)

#### Variables

Related var	Data value for replacement
id	0/uplinks/1/uplink_id

### path\_rule: uplink\_3

Related resource

[uplink](#)

Variables

Related var	Data value for replacement
id	0/uplinks/2/uplink_id

## path\_rule: default\_action

Related resource

[default\\_action](#)

Variables

Related var	Data value for replacement
id	0/default_action_id

---

## Resource: default\_actions

Collection for Path Selection Default Actions [RELAY | DROP]

[http://{device}/api/sh.appflow/2.0/default\\_actions](http://{device}/api/sh.appflow/2.0/default_actions)

JSON

```
[ default_action ]
```

Property Name	Type	Description	Notes
<i>default_actions</i>	<i>&lt;array of &lt;default_action&gt;&gt;</i>	Collection for Path Selection Default Actions [RELAY   DROP]	
<i>default_actions</i> [items]	<i>&lt;default_action&gt;</i>	Path Selection Default Action [RELAY   DROP]	

---

## Links

### default\_actions: get

GET [http://{device}/api/sh.appflow/2.0/default\\_actions](http://{device}/api/sh.appflow/2.0/default_actions)

Response Body

Returns a [default\\_actions](#) data object.

---

## Resource: default\_action

Path Selection Default Action [RELAY | DROP]

[http://{device}/api/sh.appflow/2.0/default\\_actions/items/{id}](http://{device}/api/sh.appflow/2.0/default_actions/items/{id})

JSON

```
{  
  "id": identifier,  
  "name": string  
}
```

Property Name	Type	Description	Notes
<i>default_action</i>	<i>&lt;object&gt;</i>	Path Selection Default Action [RELAY   DROP]	Required properties: [name];
<i>default_action.id</i>	<i>&lt;identifier&gt;</i>	Generic numeric identifier	Read-only;
<i>default_action.name</i>	<i>&lt;string&gt;</i>		

---

## Links

## default\_action: get

```
GET http://{device}/api/sh.appflow/2.0/default_actions/items/{id}
```

### Response Body

Returns a [default\\_action](#) data object.

## Resource: qos\_rules

List of QoS Rules

```
http://{device}/api/sh.appflow/2.0/qos_rules{?is_default,apptag_id,qos_profile_id,app_id}
```

### JSON

```
[
  {
    "id": identifier,
    "app_name": string,
    "class_name": string,
    "dscp": multiple,
    "position": integer,
    "is_default": boolean
  }
]
```

Property Name	Type	Description	Notes
<i>qos_rules</i>	<i>&lt;array of &lt;object&gt;&gt;</i>	List of QoS Rules	
<i>qos_rules</i> [items]	<i>&lt;object&gt;</i>		Required properties: [id, position];
<i>qos_rules</i> [items].id	<i>&lt;identifier&gt;</i>	Generic numeric identifier	Read-only;
<i>app_name</i>	<i>&lt;string&gt;</i>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\S.*?)\S\$';
<i>class_name</i>	<i>&lt;string&gt;</i>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\S.*?)\S\$';
<i>dscp</i>	<i>&lt;multiple&gt;</i>	For extended DSCP fields. Used for the DSCP passed to the data-path. It assumes values from 0 to 63 and values to trigger some extra actions on DSCP: * 255 to `preserve` the DSCP from inner to outer channel and the other way around.	Read-only;
<i>dscp.anyOf</i> [0]	<i>&lt;dscp_mark&gt;</i>	For 6-bit DSCP fields. Used to match the DSCP of packets coming from the wire, and for path-selection probes DSCP.	
<i>dscp.anyOf</i> [1]	<i>&lt;dscp_qos_special&gt;</i>	Special values for QoS DSCP behavior	
<i>qos_rules</i> [items].position	<i>&lt;integer&gt;</i>		
<i>qos_rules</i> [items].is_default	<i>&lt;boolean&gt;</i>		Read-only; Optional;

## Links

### qos\_rules: create

```
POST http://{device}/api/sh.appflow/2.0/qos_rules{?is_default,apptag_id,qos_profile_id,app_id}
```

### Request Body

Provide a [qos\\_rule](#) data object.

### Response Body

Returns a [qos\\_rule](#) data object.

### qos\_rules: get

```
GET http://{device}/api/sh.appflow/2.0/qos_rules{?is_default,apptag_id,qos_profile_id,app_id}
```

### Response Body

Returns a [qos\\_rules](#) data object.

## qos\_rules: set

Deletes all QoS rules that are default.

```
PUT http://{device}/api/sh.appflow/2.0/qos_rules{?is_default,apptag_id,qos_profile_id,app_id}
```

### Request Body

Provide an [empty\\_collection](#) data object.

### Response Body

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

## qos\_rules: move

Updates the positions of the QoS rules.

```
PUT http://{device}/api/sh.appflow/2.0/qos_rules/move
```

### Request Body

Provide a [qos\\_rules](#) data object.

### Response Body

Returns a [qos\\_rules](#) data object.

## Resource: qos\_rule

Quality of Service (QoS) Rule Object

```
http://{device}/api/sh.appflow/2.0/qos_rules/items/{id}
```

### JSON

```
{
  "id": identifier,
  "qos_profile_id": integer,
  "app_id": multiple,
  "app_name": string,
  "apptag_id": multiple,
  "apptag_name": string,
  "dscp": multiple,
  "class_id": multiple,
  "class_name": string,
  "is_default": boolean,
  "position": integer
}
```

Property Name	Type	Description	Notes
<i>qos_rule</i>	<object>	Quality of Service (QoS) Rule Object	
<i>qos_rule.id</i>	<identifier>	Generic numeric identifier	Read-only;
<i>qos_rule.qos_profile_id</i>	<integer>	ID of associated class set	Optional;
<i>qos_rule.app_id</i>	<multiple>	Application ID. Either Application ID or ApplicationTag ID can be specified, but not both.	Optional;
<i>qos_rule.app_id.anyOf[0]</i>	<application_identifier>	Application numeric identifier	
<i>qos_rule.app_id.anyOf[1]</i>	<null>		
<i>app_name</i>	<string>	Application Name	Read-only; Pattern: '^(S.*)?\S\$';
<i>qos_rule.apptag_id</i>	<multiple>	ApplicationTag ID. Either Application ID or ApplicationTag ID can be specified, but not both.	Optional;
<i>qos_rule.apptag_id.anyOf[0]</i>	<integer>		
<i>qos_rule.apptag_id.anyOf[1]</i>	<null>		
<i>apptag_name</i>	<string>	ApplicationTag Name	Read-only; Pattern: '^(S.*)?\S\$';
<i>dscp</i>	<multiple>	DSCP value to be set for QoS marking.	
<i>dscp.anyOf[0]</i>	<dscp_mark>	For 6-bit DSCP fields. Used to match the DSCP of packets coming from the wire, and for path-selection probes DSCP.	
<i>dscp.anyOf[1]</i>	<dscp_qos_special>	Special values for QoS DSCP behavior	
<i>qos_rule.class_id</i>	<multiple>	Class ID for shaping purposes.	Optional;

<code>qos_rule.class_id.anyOf[0]</code>	<code>&lt;integer&gt;</code>		
<code>qos_rule.class_id.anyOf[1]</code>	<code>&lt;null&gt;</code>		
<code>class_name</code>	<code>&lt;string&gt;</code>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\S.*?)\S\$';
<code>qos_rule.is_default</code>	<code>&lt;boolean&gt;</code>	Is the QoS rule a default rule?	Read-only; Optional;
<code>qos_rule.position</code>	<code>&lt;integer&gt;</code>	Position of the QoS rule in its profile.	Read-only; Optional;

## Links

### qos\_rule: get

```
GET http://{device}/api/sh.appflow/2.0/qos_rules/items/{id}
```

#### Response Body

Returns a [qos\\_rule](#) data object.

### qos\_rule: set

```
PUT http://{device}/api/sh.appflow/2.0/qos_rules/items/{id}
```

#### Request Body

Provide a [qos\\_rule](#) data object.

#### Response Body

Returns a [qos\\_rule](#) data object.

### qos\_rule: delete

```
DELETE http://{device}/api/sh.appflow/2.0/qos_rules/items/{id}
```

#### Response Body

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

## Relations

### qos\_rule: instances

#### Related resource

[qos\\_rules](#)

### qos\_rule: qos\_profile

#### Related resource

[qos\\_profile](#)

#### Variables

Related var	Data value for replacement
id	0/qos_profile_id

### qos\_rule: class

#### Related resource

[class](#)

#### Variables

Related var	Data value for replacement
id	0/class_id



## Resource: groups

List of Application Groups. Group is one of the required properties of an Application. Each Group represents one of the most common Path-Selection offload scenarios. This is a static list that cannot be modified.

```
http://{device}/api/sh.appflow/2.0/groups{?name}
```

### JSON

```
[
  {
    "id": integer,
    "name": string,
    "description": string
  }
]
```

Property Name	Type	Description	Notes
<i>groups</i>	<i>&lt;array of &lt;object&gt;&gt;</i>	List of Application Groups. Group is one of the required properties of an Application. Each Group represents one of the most common Path-Selection offload scenarios. This is a static list that cannot be modified.	
<i>groups[items]</i>	<i>&lt;object&gt;</i>		Read-only;
<i>id</i>	<i>&lt;integer&gt;</i>	Generic numeric identifier	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<i>&lt;string&gt;</i>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\\S.)*?\\S\$';
<i>groups[items].description</i>	<i>&lt;string&gt;</i>		Read-only; Optional;

## Links

### groups: get

```
GET http://{device}/api/sh.appflow/2.0/groups{?name}
```

#### Response Body

Returns a [groups](#) data object.

## Resource: l4protocols

List of Layer 4 Protocols. This is a static list that cannot be modified.

```
http://{device}/api/sh.appflow/2.0/l4protocols{?name}
```

### JSON

```
[
  {
    "name": string,
    "number": integer
  }
]
```

Property Name	Type	Description	Notes
<i>l4protocols</i>	<i>&lt;array of &lt;object&gt;&gt;</i>	List of Layer 4 Protocols. This is a static list that cannot be modified.	
<i>l4protocols[items]</i>	<i>&lt;object&gt;</i>		Read-only;
<i>name</i>	<i>&lt;string&gt;</i>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\\S.)*?\\S\$';
<i>l4protocols[items].number</i>	<i>&lt;integer&gt;</i>	Layer 4 protocol number	Read-only; Optional;

## Links

### l4protocols: get

## I4protocols: get

```
GET http://{device}/api/sh.appflow/2.0/I4protocols{?name}
```

### Response Body

Returns a [I4protocols](#) data object.

## Resource: I7protocol

Layer 7 Protocol

```
http://{device}/api/sh.appflow/2.0/I7protocols/items/{id}
```

### JSON

```
{
  "id": integer,
  "name": string,
  "description": string,
  "metadata_keys": [
    string
  ],
  "priority_fields": [
    {
      "name": string,
      "priority": integer
    }
  ]
}
```

Property Name	Type	Description	Notes
<i>I7protocol</i>	<object>	Layer 7 Protocol	
<i>id</i>	<integer>	Generic numeric identifier	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\\S.*?)\\S\$';
<i>I7protocol.description</i>	<string>		Read-only; Optional;
<i>I7protocol.metadata_keys</i>	<array of <string>>	List of keys associated with this Layer 7 protocol	Read-only; Optional;
<i>I7protocol.metadata_keys[items]</i>	<string>	Name of a metadata key associated with this Layer 7 protocol	Read-only;
<i>I7protocol.priority_fields</i>	<array of <object>>	List of priority fields associated with this Layer 7 protocol. Tuples of (priority value, priority name).	Optional;
<i>I7protocol.priority_fields[items]</i>	<object>		Read-only;
<i>name</i>	<string>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\\S.*?)\\S\$';
<i>I7protocol.priority_fields[items].priority</i>	<integer>		Read-only; Optional;

## Links

### I7protocol: get

```
GET http://{device}/api/sh.appflow/2.0/I7protocols/items/{id}
```

### Response Body

Returns a [I7protocol](#) data object.

## Relations

### I7protocol: instances

#### Related resource

[I7protocols](#)

## Resource: I7protocols

A snapshot of all the Layer 7 protocols in the system. This is a static list that cannot be modified. To get the full details of a particular Layer 7 protocol use the 'I7protocol' resource.

```
http://{device}/api/sh.appflow/2.0/I7protocols{?name}
```

### JSON

```
[
  {
    "id": integer,
    "name": string,
    "description": string
  }
]
```

Property Name	Type	Description	Notes
<i>I7protocols</i>	<array of <object>>	A snapshot of all the Layer 7 protocols in the system. This is a static list that cannot be modified. To get the full details of a particular Layer 7 protocol use the 'I7protocol' resource.	
<i>I7protocols</i> [items]	<object>		Read-only;
<i>id</i>	<integer>	Generic numeric identifier	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\\S.*?)\\S\$';
<i>I7protocols</i> [items].description	<string>		Read-only; Optional;

## Links

### I7protocols: get

```
GET http://{device}/api/sh.appflow/2.0/I7protocols{?name}
```

#### Response Body

Returns a [I7protocols](#) data object.

## Resource: apptag

Tag for an Application

```
http://{device}/api/sh.appflow/2.0/app_tags/items/{id}
```

### JSON

```
{
  "id": identifier,
  "name": unrestricted_name,
  "is_built_in": boolean,
  "applications": [
    {
      "id": identifier,
      "name": string
    }
  ]
}
```

Property Name	Type	Description	Notes
<i>apptag</i>	<object>	Tag for an Application	Required properties: [name];
<i>apptag.id</i>	<identifier>	Generic numeric identifier	Read-only;
<i>apptag.name</i>	<unrestricted_name>	Generic name field, all characters allowed except for leading and trailing whitespace	Pattern: '^(\\S.*?)\\S\$';
<i>apptag.is_built_in</i>	<boolean>	Flag that specifies whether this tag is built_in and cannot be deleted. True indicates that it is built_in and cannot be deleted, False indicates that it is not built_in and can be deleted.	Read-only; Optional;

<i>apptag.applications</i>	<i>&lt;array of &lt;object&gt;&gt;</i>	Array of applications that have this tag associated with them. Array of tuples of (Application ID, Application Name)	Optional;
<i>apptag.applications[items]</i>	<i>&lt;object&gt;</i>		
<i>apptag.applications[items].id</i>	<i>&lt;identifier&gt;</i>	Generic numeric identifier	Read-only;
<i>name</i>	<i>&lt;string&gt;</i>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\\S.*?)\\S\$';

## Links

### apptag: get

```
GET http://{device}/api/sh.appflow/2.0/app_tags/items/{id}
```

#### Response Body

Returns an [apptag](#) data object.

## Relations

### apptag: instances

#### Related resource

[apptags](#)

## Resource: apptags

A snapshot of all the Application Tags in the system. For full details of a particular Application Tag use the 'apptag' resource. An Application Tag cannot be modified through this resource. To modify an Application Tag use the 'apptag' resource instead.

```
http://{device}/api/sh.appflow/2.0/app_tags{?name}
```

#### JSON

```
[
  {
    "is_built_in": boolean,
    "id": integer,
    "name": string
  }
]
```

Property Name	Type	Description	Notes
<i>apptags</i>	<i>&lt;array of &lt;object&gt;&gt;</i>	A snapshot of all the Application Tags in the system. For full details of a particular Application Tag use the 'apptag' resource. An Application Tag cannot be modified through this resource. To modify an Application Tag use the 'apptag' resource instead.	
<i>apptags[items]</i>	<i>&lt;object&gt;</i>		Read-only;
<i>apptags[items].is_built_in</i>	<i>&lt;boolean&gt;</i>	Flag that specifies whether this tag is built_in and cannot be deleted. True indicates that it is built_in and cannot be deleted. False indicates that it is not built_in and can be deleted.	Read-only; Optional;
<i>id</i>	<i>&lt;integer&gt;</i>	Generic numeric identifier	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<i>&lt;string&gt;</i>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\\S.*?)\\S\$';

## Links

### apptags: get

```
GET http://{device}/api/sh.appflow/2.0/app_tags{?name}
```

## Response Body

Returns an [apptags](#) data object.

## Resource: application

Definition of a QoS Application

```
http://{device}/api/sh.appflow/2.0/applications/items/{id}
```

### JSON

```
{
  "id": application_identifier,
  "name": unrestricted_name,
  "description": multiple,
  "traffic_type_id": multiple,
  "traffic_type_name": multiple,
  "l4_protocol_id": multiple,
  "l4_protocol_name": multiple,
  "dscp": multiple,
  "vlan": multiple,
  "local_port": multiple,
  "local_portlabel": multiple,
  "remote_port": multiple,
  "remote_portlabel": multiple,
  "local_net": multiple,
  "local_hostlabel": multiple,
  "remote_net": multiple,
  "remote_hostlabel": multiple,
  "l7_protocol_id": multiple,
  "l7_protocol_name": multiple,
  "l7_protocol_params": [
    {
      "name": string,
      "value": string
    }
  ],
  "tags": [
    {
      "is_built_in": boolean,
      "id": integer,
      "name": string
    }
  ],
  "group_id": integer,
  "group_name": string,
  "business_criticality_id": integer,
  "business_criticality_name": string,
  "category_id": integer,
  "category_name": string,
  "is_built_in": boolean
}
```

Property Name	Type	Description	Notes
<i>application</i>	<object>	Definition of a QoS Application	Required properties: [business_criticality_id, category_id, group_id, name];
<i>application.id</i>	< <i>application_identifier</i> >	Application numeric identifier	
<i>application.name</i>	< <i>unrestricted_name</i> >	Generic name field, all characters allowed except for leading and trailing whitespace	Pattern: '^(\\S.*?)\\S\$';
<i>application.description</i>	< <i>multiple</i> >	Description of the Application	Optional;
<i>application.description.anyOf[0]</i>	< <i>string</i> >		
<i>application.description.anyOf[1]</i>	< <i>null</i> >		
<i>application.traffic_type_id</i>	< <i>multiple</i> >	ID of the traffic type that this Application applies to. A value of 'null' catches both Optimized and Passthrough traffic.	Optional;
<i>application.traffic_type_id.anyOf[0]</i>	< <i>integer</i> >		
<i>application.traffic_type_id.anyOf[1]</i>	< <i>null</i> >		
<i>application.traffic_type_name</i>	< <i>multiple</i> >	Traffic type (Optimized, Passthrough or both) that this application applies to.	Read-only; Optional;
<i>application.traffic_type_name.anyOf[0]</i>	< <i>name</i> >	Generic name field, only alphanumeric '-' and '_' allowed	Pattern: '^[a-zA-Z0-9_-]+\$';
<i>application.traffic_type_name.anyOf[1]</i>	< <i>null</i> >		Read-only;

<i>application.l4_protocol_id</i>	<multiple>	ID of Layer 4 protocol of traffic that this Application applies to. Foreign Key into the Layer 4 protocols table.	Optional;
<i>application.l4_protocol_id.anyOf[0]</i>	<integer>		
<i>application.l4_protocol_id.anyOf[1]</i>	<null>		
<i>application.l4_protocol_name</i>	<multiple>	Name of Layer 4 protocol of traffic that this Application applies to.	Read-only; Optional;
<i>application.l4_protocol_name.anyOf[0]</i>	<unrestricted_name>	Generic name field, all characters allowed except for leading and trailing whitespace	Pattern: '^(\S.*?)\S\$';
<i>application.l4_protocol_name.anyOf[1]</i>	<null>		Read-only;
<i>application.dscp</i>	<multiple>	DSCP of traffic that this Application applies to. A value of 'null' here catches all DSCP values.	Optional;
<i>application.dscp.anyOf[0]</i>	<dscp_mark>	For 6-bit DSCP fields. Used to match the DSCP of packets coming from the wire, and for path-selection probes DSCP.	
<i>application.dscp.anyOf[1]</i>	<null>		
<i>application.vlan</i>	<multiple>	VLAN of traffic that this Application applies to. A value of 'null' here catches all VLANs.	Optional;
<i>application.vlan.anyOf[0]</i>	<vlan>	Type for VLAN field in the Ethernet header	
<i>application.vlan.anyOf[1]</i>	<null>		
<i>application.local_port</i>	<multiple>	Local port of traffic that this Application applies to. Only one of local_port and local_portlabel can be specified.	Optional;
<i>application.local_port.anyOf[0]</i>	<integer>		Range: 1 to 65535;
<i>application.local_port.anyOf[1]</i>	<null>		
<i>application.local_portlabel</i>	<multiple>	Name of Port Label, an alternate way of specifying the local ports of traffic that this Application applies to. Only one of local_port and local_portlabel can be specified.	Optional;
<i>application.local_portlabel.anyOf[0]</i>	<string>		
<i>application.local_portlabel.anyOf[1]</i>	<null>		
<i>application.remote_port</i>	<multiple>	Remote port of traffic that this Application applies to. Only one of remote_port and remote_portlabel can be specified.	Optional;
<i>application.remote_port.anyOf[0]</i>	<integer>		Range: 1 to 65535;
<i>application.remote_port.anyOf[1]</i>	<null>		
<i>application.remote_portlabel</i>	<multiple>	Name of Port Label, an alternate way of specifying the remote ports of traffic that this Application applies to. Only one of remote_port and remote_portlabel can be specified.	Optional;
<i>application.remote_portlabel.anyOf[0]</i>	<string>		
<i>application.remote_portlabel.anyOf[1]</i>	<null>		
<i>application.local_net</i>	<multiple>	Local subnet of traffic that this Application applies to. Only one of local_net and local_hostlabel can be specified.	Optional;
<i>application.local_net.anyOf[0]</i>	<ipv4prefix>	IPv4 prefix (x.y.z.k/mask)	Pattern: '^(?:?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?)\.){3}(?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?)\$/((3[012] [12]?[0-9]))\$';
<i>application.local_net.anyOf[1]</i>	<null>		
<i>application.local_hostlabel</i>	<multiple>	Name of Host Label, an alternate way of specifying the local IP addresses of traffic that this Application applies to. Only one of local_net and local_hostlabel can be specified.	Optional;
<i>application.local_hostlabel.anyOf[0]</i>	<string>		
<i>application.local_hostlabel.anyOf[1]</i>	<null>		
<i>application.remote_net</i>	<multiple>	Remote subnet of traffic that this Application applies to. Only one of remote_net and remote_hostlabel can be specified.	Optional;
<i>application.remote_net.anyOf[0]</i>	<ipv4prefix>	IPv4 prefix (x.y.z.k/mask)	Pattern: '^(?:?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?)\.){3}(?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?)\$/((3[012] [12]?[0-9]))\$';
<i>application.remote_net.anyOf[1]</i>	<null>		
<i>application.remote_hostlabel</i>	<multiple>	Name of Host Label, an alternate way of specifying the remote IP addresses of traffic that this Application applies to. Only one of remote_net and remote_hostlabel can be specified.	Optional;
<i>application.remote_hostlabel.anyOf[0]</i>	<string>		

<i>application.remote_hostlabel.anyOf[1]</i>	<null>		
<i>application.l7_protocol_id</i>	<multiple>	ID of Layer 7 protocol of traffic that this Application applies to. Foreign Key into the Layer 7 protocols table	Optional;
<i>application.l7_protocol_id.anyOf[0]</i>	<integer>		
<i>application.l7_protocol_id.anyOf[1]</i>	<null>		
<i>application.l7_protocol_name</i>	<multiple>	Name of Layer 7 protocol of traffic that this Application applies to.	Read-only; Optional;
<i>application.l7_protocol_name.anyOf[0]</i>	<unrestricted_name>	Generic name field, all characters allowed except for leading and trailing whitespace	Pattern: '^(\S.*?)\S\$';
<i>application.l7_protocol_name.anyOf[1]</i>	<null>		Read-only;
<i>application.l7_protocol_params</i>	<array of <object>>	List of parameters specific to the Layer 7 protocol of this Application	Optional;
<i>application.l7_protocol_params[items]</i>	<object>		
<i>application.l7_protocol_params[items].name</i>	<string>	Name of the Layer 7 protocol-metadata field	Optional;
<i>application.l7_protocol_params[items].value</i>	<string>	Value of the Layer 7 protocol-metadata field	Optional;
<i>tags</i>	<array of <object>>	A snapshot of all the Application Tags in the system. For full details of a particular Application Tag use the 'apptag' resource. An Application Tag cannot be modified through this resource. To modify an Application Tag use the 'apptag' resource instead.	Read-only;
<i>tags[items]</i>	<object>		Read-only;
<i>tags[items].is_built_in</i>	<boolean>	Flag that specifies whether this tag is built_in and cannot be deleted. True indicates that it is built_in and cannot be deleted, False indicates that it is not built_in and can be deleted.	Read-only; Optional;
<i>id</i>	<integer>	Generic numeric identifier	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\S.*?)\S\$';
<i>application.group_id</i>	<integer>		
<i>group_name</i>	<string>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\S.*?)\S\$';
<i>business_criticality_id</i>	<integer>	ID of the Business Criticality property of this Application. Foreign Key into the Business_criticalities resource.	Read-only; Range: 1 to 18446744073709551615;
<i>business_criticality_name</i>	<string>	Name of the Business Criticality property of this Application. Represents the Application's business importance.	Read-only; Pattern: '^(\S.*?)\S\$';
<i>category_id</i>	<integer>	ID of the Category property of this Application. Foreign Key into the Categories resource.	Read-only; Range: 1 to 18446744073709551615;
<i>category_name</i>	<string>	Name of the Category property of this Application. Represents the general function of this Application.	Read-only; Pattern: '^(\S.*?)\S\$';
<i>application.is_built_in</i>	<boolean>	Specifies whether the Application is built_in	Read-only; Optional;
<i>application.allOf[0]</i>	<multiple>		
<i>application.allOf[0].not</i>	<object>		Required properties: [local_port, local_portlabel];
<i>application.allOf[0].not.local_port</i>	<integer>		
<i>application.allOf[0].not.local_portlabel</i>	<string>		
<i>application.allOf[0].not.&lt;prop&gt;</i>	<any>		Optional;
<i>application.allOf[1]</i>	<multiple>		
<i>application.allOf[1].not</i>	<object>		Required properties: [remote_port, remote_portlabel];
<i>application.allOf[1].not.remote_port</i>	<integer>		
<i>application.allOf[1].not.remote_portlabel</i>	<string>		
<i>application.allOf[1].not.&lt;prop&gt;</i>	<any>		Optional;
<i>application.allOf[2]</i>	<multiple>		
<i>application.allOf[2].not</i>	<object>		Required properties: [local_net, local_hostlabel];
<i>application.allOf[2].not.local_net</i>	<ipv4prefix>	IPv4 prefix (x.y.z.k/mask)	Pattern: '^(?:?:25[0-5] 2[0-4][0-9] 0[0-9] 0-9)[0-9]?\.\.){3}(?:25[0-5] 2[0-4][0-9] 0[0-9] 0-9)[0-9]?(/([3012]?[12]?[0-9]))?\$';
<i>application.allOf[2].not.local_hostlabel</i>	<string>		

<code>application.allOf[2].not.&lt;prop&gt;</code>	<code>&lt;any&gt;</code>		Optional;
<code>application.allOf[3]</code>	<code>&lt;multiple&gt;</code>		
<code>application.allOf[3].not</code>	<code>&lt;object&gt;</code>		Required properties: [remote_net, remote_hostlabel];
<code>application.allOf[3].not.remote_net</code>	<code>&lt;ipv4prefix&gt;</code>	IPv4 prefix (x.y.z.k/mask)	Pattern: '^(?:?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?)\.){3}(?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?)\$/([3[012]][12]?[0-9])\$';
<code>application.allOf[3].not.remote_hostlabel</code>	<code>&lt;string&gt;</code>		
<code>application.allOf[3].not.&lt;prop&gt;</code>	<code>&lt;any&gt;</code>		Optional;

## Links

### application: get

```
GET http://{device}/api/sh.appflow/2.0/applications/items/{id}
```

#### Response Body

Returns an [application](#) data object.

### application: set

```
PUT http://{device}/api/sh.appflow/2.0/applications/items/{id}
```

#### Request Body

Provide an [application](#) data object.

#### Response Body

Returns an [application](#) data object.

### application: delete

```
DELETE http://{device}/api/sh.appflow/2.0/applications/items/{id}
```

#### Response Body

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

## Relations

### application: instances

#### Related resource

[applications](#)

## Resource: applications

A snapshot of all the Applications in the system. To get the full details of a particular Application use the 'application' resource. An Application cannot be modified through this resource. To modify an Application use the 'application' resource.

```
http://{device}/api/sh.appflow/2.0/applications{?uses_portlabel,category_id,name,uses_hostlabel,is_built_in,group_id,business_criticality_id}
```

JSON



```
[
  {
    "business_criticality_name": string,
    "category_name": string,
    "id": integer,
    "name": string,
    "tags": [
      {
        "is_built_in": boolean,
        "id": integer,
        "name": string
      }
    ],
    "description": string,
    "group_name": string,
    "is_built_in": boolean
  }
]
```

Property Name	Type	Description	Notes
<i>applications</i>	<array of <object>>	A snapshot of all the Applications in the system. To get the full details of a particular Application use the 'application' resource. An Application cannot be modified through this resource. To modify an Application use the 'application' resource.	
<i>applications[items]</i>	<object>		Read-only;
<i>business_criticality_name</i>	<string>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\S.*?)\S\$';
<i>category_name</i>	<string>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\S.*?)\S\$';
<i>id</i>	<integer>	Application numeric identifier	Read-only; Range: 1 to 65535;
<i>name</i>	<string>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\S.*?)\S\$';
<i>tags</i>	<array of <object>>	A snapshot of all the Application Tags in the system. For full details of a particular Application Tag use the 'apptag' resource. An Application Tag cannot be modified through this resource. To modify an Application Tag use the 'apptag' resource instead.	Read-only;
<i>tags[items]</i>	<object>		Read-only;
<i>tags[items].is_built_in</i>	<boolean>	Flag that specifies whether this tag is built_in and cannot be deleted. True indicates that it is built_in and cannot be deleted, False indicates that it is not built_in and can be deleted.	Read-only; Optional;
<i>id</i>	<integer>	Generic numeric identifier	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\S.*?)\S\$';
<i>applications[items].description</i>	<string>		Read-only; Optional;
<i>group_name</i>	<string>	Generic name field, all characters allowed except for leading and trailing whitespace	Read-only; Pattern: '^(\S.*?)\S\$';
<i>applications[items].is_built_in</i>	<boolean>	Specifies whether the application is built_in.	Read-only; Optional;

## Links

### applications: get

```
GET http://{device}/api/sh.appflow/2.0/applications{?
uses_portlabel,category_id,name,uses_hostlabel,is_built_in,group_id,business_criticality_id}
```

#### Response Body

Returns an [applications](#) data object.

### applications: create

```
POST http://{device}/api/sh.appflow/2.0/applications{?
uses_portlabel,category_id,name,uses_hostlabel,is_built_in,group_id,business_criticality_id}
```

#### Request Body

Provide an [application](#) data object.

## Response Body

Returns an [application](#) data object.

## applications: set

```
PUT http://{device}/api/sh.appflow/2.0/applications{?
uses_portlabel,category_id,name,uses_hostlabel,is_built_in,group_id,business_criticality_id}
```

## Request Body

Provide an [empty\\_collection](#) data object.

## Response Body

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

## applications: reset

Resets the list of applications back to the factory default.

```
POST http://{device}/api/sh.appflow/2.0/applications/reset
```

## Request Body

Do not provide a request body.

## Response Body

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

## applications: dump

Get the list of applications with the full details of each application specified.

```
GET http://{device}/api/sh.appflow/2.0/applications/dump
```

## Response Body

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

### JSON

```
[ application ]
```

Property Name	Type	Description	Notes
<code>applications.links.dump.response</code>	<code>&lt;array of &lt;application&gt;&gt;</code>		
<code>applications.links.dump.response[items]</code>	<code>&lt;application&gt;</code>	Definition of a QoS Application	

## Resource: class

### QoS Class

```
http://{device}/api/sh.appflow/2.0/classes/items/{id}
```

### JSON

```
{
  "id": integer,
  "qos_profile_id": number,
  "name": string,
  "parent_id": number,
  "is_leaf": boolean,
  "is_default_class": boolean
}
```

Property Name	Type	Description	Notes
<code>class</code>	<code>&lt;object&gt;</code>	QoS Class	Required properties: [name, qos_profile_id, parent_id];

<i>id</i>	<integer>	Class ID	Read-only; Range: 1 to 18446744073709551615;
<i>class.qos_profile_id</i>	<number>	Reference to the QoS Profile	
<i>name</i>	<string>	Class Name	Pattern: '^(S.*?)\S\$';
<i>class.parent_id</i>	<number>	Reference to the Parent Class ID	
<i>class.is_leaf</i>	<boolean>	Is this class a leaf class or inner class?	Read-only; Optional;
<i>class.is_default_class</i>	<boolean>	Is this class the default class in the QoS Profile?	Read-only; Optional;

## Links

### class: get

```
GET http://{device}/api/sh.appflow/2.0/classes/items/{id}
```

#### Response Body

Returns a [class](#) data object.

### class: set

```
PUT http://{device}/api/sh.appflow/2.0/classes/items/{id}
```

#### Request Body

Provide a [class](#) data object.

#### Response Body

Returns a [class](#) data object.

### class: delete

```
DELETE http://{device}/api/sh.appflow/2.0/classes/items/{id}
```

#### Response Body

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

## Relations

### class: instances

#### Related resource

[classes](#)

### class: qos\_profile

#### Related resource

[qos\\_profile](#)

#### Variables

Related var	Data value for replacement
id	0/qos_profile_id

### class: parent

#### Related resource

[class](#)

#### Variables

Related var	Data value for replacement
id	0/parent_id

## class: full

Related resource

[class](#)

Variables

Related var	Data value for replacement
id	0/id

---

## Resource: classes

List of QoS Class IDs and names

```
http://{device}/api/sh.appflow/2.0/classes{?is_leaf,name,qos_profile_id}
```

JSON

```
[ class ]
```

Property Name	Type	Description	Notes
<i>classes</i>	<array of <class>>	List of QoS Class IDs and names	
<i>classes[items]</i>	<class>	QoS Class	

---

## Links

### classes: set

Delete all the Class instances (except for default root class in default class set).

```
PUT http://{device}/api/sh.appflow/2.0/classes{?is_leaf,name,qos_profile_id}
```

Request Body

Provide an [empty\\_collection](#) data object.

Response Body

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

### classes: get

```
GET http://{device}/api/sh.appflow/2.0/classes{?is_leaf,name,qos_profile_id}
```

Response Body

Returns a [classes](#) data object.

### classes: create

```
POST http://{device}/api/sh.appflow/2.0/classes{?is_leaf,name,qos_profile_id}
```

Request Body

Provide a [class](#) data object.

Response Body

Returns a [class](#) data object.

---

## Resource: queue\_type

QoS Queue

```
http://{device}/api/sh.appflow/2.0/queue_types/items/{id}
```

## JSON

```
{
  "id": integer,
  "name": string
}
```

Property Name	Type	Description	Notes
<i>queue_type</i>	<object>	QoS Queue	Required properties: [name];
<i>id</i>	<integer>	Queue Type ID	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Queue Type Name	Pattern: '^[a-zA-Z0-9_-]+\$';

## Links

### queue\_type: get

```
GET http://{device}/api/sh.appflow/2.0/queue_types/items/{id}
```

#### Response Body

Returns a [queue\\_type](#) data object.

## Relations

### queue\_type: instances

#### Related resource

[queue\\_types](#)

## Resource: queue\_types

List of QoS Queues

```
http://{device}/api/sh.appflow/2.0/queue_types{?name}
```

## JSON

```
[
  {
    "id": integer,
    "name": string,
    "shaper_name": string
  }
]
```

Property Name	Type	Description	Notes
<i>queue_types</i>	<array of <object>>	List of QoS Queues	
<i>queue_types[items]</i>	<object>		
<i>id</i>	<integer>	Queue Type ID	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Queue Type Name	Pattern: '^[a-zA-Z0-9_-]+\$';
<i>shaper_name</i>	<string>	Qdisc in Shaper	Pattern: '^[a-zA-Z0-9_-]+\$';

## Links

### queue\_types: get

```
GET http://{device}/api/sh.appflow/2.0/queue_types{?name}
```

#### Response Body

Returns a [queue\\_types](#) data object.

## Resource: qos\_profile

QoS Profile

```
http://{device}/api/sh.appflow/2.0/qos_profiles/items/{id}
```

### JSON

```
{
  "id": integer,
  "name": string,
  "classes_tree": {
    "id": integer,
    "name": string,
    "is_default_class": boolean,
    "children": [ classes_tree ]
  },
  "is_default": boolean
}
```

Property Name	Type	Description	Notes
<i>qos_profile</i>	<object>	QoS Profile	Required properties: [name];
<i>id</i>	<integer>	QoS Profile ID	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	QoS Profile Name	Pattern: '^(S.*?)?\$';
<i>classes_tree</i>	<object>	Class hierarchy tree type	Read-only;
<i>id</i>	<integer>	Class ID	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Class Name	Pattern: '^(S.*?)?\$';
<i>classes_tree.is_default_class</i>	<boolean>	Is this class the default class in the tree?	Read-only; Optional;
<i>classes_tree.children</i>	<array of <classes_tree>>		Read-only; Optional;
<i>classes_tree.children[items]</i>	<classes_tree>	Class hierarchy tree type	
<i>qos_profile.is_default</i>	<boolean>	Is this default QoS Profile ?	Read-only; Optional;

## Links

### qos\_profile: get

```
GET http://{device}/api/sh.appflow/2.0/qos_profiles/items/{id}
```

#### Response Body

Returns a [qos\\_profile](#) data object.

### qos\_profile: set

```
PUT http://{device}/api/sh.appflow/2.0/qos_profiles/items/{id}
```

#### Request Body

Provide a [qos\\_profile](#) data object.

#### Response Body

Returns a [qos\\_profile](#) data object.

### qos\_profile: delete

```
DELETE http://{device}/api/sh.appflow/2.0/qos_profiles/items/{id}
```

#### Response Body

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

## Relations

### qos\_profile: instances

Related resource

[qos\\_profiles](#)

### qos\_profile: full

Related resource

[qos\\_profile](#)

Variables

Related var	Data value for replacement
id	0/id

## Resource: qos\_profiles

List of QoS Profile IDs and names

```
http://{device}/api/sh.appflow/2.0/qos_profiles{?is_default,name}
```

JSON

```
[
  {
    "id": integer,
    "name": string,
    "is_default": boolean
  }
]
```

Property Name	Type	Description	Notes
<i>qos_profiles</i>	<i>&lt;array of &lt;object&gt;&gt;</i>	List of QoS Profile IDs and names	
<i>qos_profiles[items]</i>	<i>&lt;object&gt;</i>		
<i>id</i>	<i>&lt;integer&gt;</i>	QoS Profile ID	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<i>&lt;string&gt;</i>	QoS Profile Name	Pattern: '^(\\S.*?)?\$';
<i>qos_profiles[items].is_default</i>	<i>&lt;boolean&gt;</i>	Is this default QoS Profile ?	Read-only; Optional;

## Links

### qos\_profiles: get

```
GET http://{device}/api/sh.appflow/2.0/qos_profiles{?is_default,name}
```

Response Body

Returns a [qos\\_profiles](#) data object.

### qos\_profiles: set

Delete all the QoS Profile instances (except for default class set)

```
PUT http://{device}/api/sh.appflow/2.0/qos_profiles{?is_default,name}
```

Request Body

Provide an [empty\\_collection](#) data object.

Response Body

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

## qos\_profiles: create

```
POST http://{device}/api/sh.appflow/2.0/qos_profiles{?is_default,name}
```

### Request Body

Provide a [qos\\_profile](#) data object.

### Response Body

Returns a [qos\\_profile](#) data object.

## qos\_profiles: reset

Resets the QoS Default-Profile back to factory-default.

```
POST http://{device}/api/sh.appflow/2.0/qos_profiles/reset
```

### Request Body

Do not provide a request body.

### Response Body

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

## Resource: uplink\_variation

### Uplink Variation

```
http://{device}/api/sh.appflow/2.0/uplink_variations/items/{id}
```

#### JSON

```
{
  "id": integer,
  "name": string,
  "uplink_id": multiple,
  "qos_profile_id": number,
  "class_params": [
    {
      "class_id": number,
      "ob_queue_type_id": number,
      "ob_queue_length": number,
      "ib_queue_length": number,
      "min_bw": number,
      "max_bw": number,
      "ls_weight": number,
      "dscp": multiple,
      "priority": number,
      "connection_limit": number,
      "ib_flow_padding_enable": boolean,
      "ib_flow_padding_override": boolean,
      "ib_flow_padding_timeout": number,
      "ib_tcp_control_enable": boolean,
      "ib_tcp_control_override": boolean,
      "ib_tcp_control_fssdetect": number,
      "ib_tcp_control_idledetect": number,
      "ib_tcp_control_weight": number
    }
  ]
}
```

Property Name	Type	Description	Notes
<i>uplink_variation</i>	<object>	Uplink Variation	Required properties: [name, qos_profile_id, uplink_id, class_params];
<i>id</i>	<integer>	Uplink Variation ID	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Uplink Variation Name	Pattern: '^(S.*?)?\$';
<i>uplink_variation.uplink_id</i>	<multiple>	Reference to the Uplink	
<i>uplink_variation.uplink_id.anyOf[0]</i>	<identifier>	Generic numeric identifier	Read-only;
<i>uplink_variation.uplink_id.anyOf[1]</i>	<null>		
<i>uplink_variation.qos_profile_id</i>	<number>	Reference to QoS Profile ID	



<code>uplink_variation.class_params</code>	<code>&lt;array of &lt;object&gt;&gt;</code>	List of all QoS Class Parameters associated to this Uplink Variation	
<code>uplink_variation.class_params[items]</code>	<code>&lt;object&gt;</code>	QoS Class Params	Required properties: [class_id];
<code>uplink_variation.class_params[items].class_id</code>	<code>&lt;number&gt;</code>	Reference to the QoS Class	
<code>uplink_variation.class_params[items].ob_queue_type_id</code>	<code>&lt;number&gt;</code>	Reference to the Queue Type of an Outbound Class	Optional;
<code>uplink_variation.class_params[items].ob_queue_length</code>	<code>&lt;number&gt;</code>	Length of the Outbound QoS Queue	Optional;
<code>uplink_variation.class_params[items].ib_queue_length</code>	<code>&lt;number&gt;</code>	Length of the Inbound QoS Queue	Optional;
<code>min_bw</code>	<code>&lt;number&gt;</code>	Minimum Bandwidth	Range: 0 to 100;
<code>max_bw</code>	<code>&lt;number&gt;</code>	Maximum Bandwidth	Range: 0 to 100;
<code>ls_weight</code>	<code>&lt;number&gt;</code>	HFSC link share weight	Range: 0 to 100;
<code>dscp</code>	<code>&lt;multiple&gt;</code>	Default DSCP	
<code>dscp.anyOf[0]</code>	<code>&lt;dscp_mark&gt;</code>	For 6-bit DSCP fields. Used to match the DSCP of packets coming from the wire, and for path-selection probes DSCP.	
<code>dscp.anyOf[1]</code>	<code>&lt;dscp_class_special&gt;</code>	Special values for class DSCP behavior	
<code>uplink_variation.class_params[items].priority</code>	<code>&lt;number&gt;</code>	Latency Priority	Optional; Range: 1 to 6;
<code>uplink_variation.class_params[items].connection_limit</code>	<code>&lt;number&gt;</code>	Maximum number of connections	Optional;
<code>uplink_variation.class_params[items].ib_flow_padding_enable</code>	<code>&lt;boolean&gt;</code>	Enable/disable inbound QoS Flow Padding feature, default is enabled.	Optional;
<code>uplink_variation.class_params[items].ib_flow_padding_override</code>	<code>&lt;boolean&gt;</code>	Whether or not to override the global Inbound QoS Flow Padding configuration.	Optional;
<code>ib_flow_padding_timeout</code>	<code>&lt;number&gt;</code>	Timeout for Deque/Link-Sharing Phantoms as a percentage fraction of average TCP round-trip time.	Range: 0 to 100;
<code>uplink_variation.class_params[items].ib_tcp_control_enable</code>	<code>&lt;boolean&gt;</code>	Enable/disable inbound QoS TCP Control feature, default is enabled.	Optional;
<code>uplink_variation.class_params[items].ib_tcp_control_override</code>	<code>&lt;boolean&gt;</code>	Whether or not to override the global Inbound QoS TCP Control configuration.	Optional;
<code>ib_tcp_control_fssdetect</code>	<code>&lt;number&gt;</code>	False slow start detection settings	Range: 0 to 100;
<code>ib_tcp_control_idledetect</code>	<code>&lt;number&gt;</code>	TCP idle restart detection settings	Range: 0 to 100;
<code>ib_tcp_control_weight</code>	<code>&lt;number&gt;</code>	TCP Slow-Start phantom weight as a percentage fraction of the real packet	Range: 0 to 100;

## Links

### uplink\_variation: get

```
GET http://{device}/api/sh.appflow/2.0/uplink_variations/items/{id}
```

#### Response Body

Returns an [uplink\\_variation](#) data object.

### uplink\_variation: set

```
PUT http://{device}/api/sh.appflow/2.0/uplink_variations/items/{id}
```

#### Request Body

Provide an [uplink\\_variation](#) data object.

#### Response Body

Returns an [uplink\\_variation](#) data object.

### uplink\_variation: delete

```
DELETE http://{device}/api/sh.appflow/2.0/uplink_variations/items/{id}
```

#### Response Body

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

---

## Relations

### uplink\_variation: instances

Related resource

[uplink\\_variations](#)

### uplink\_variation: qos\_profile

Related resource

[qos\\_profile](#)

Variables

Related var	Data value for replacement
id	0/qos_profile_id

---

## Resource: uplink\_variations

List of Uplink Variations

`http://{device}/api/sh.appflow/2.0/uplink_variations{?uplink_id,name,qos_profile_id}`

JSON

```
[
  {
    "id": integer,
    "name": string
  }
]
```

Property Name	Type	Description	Notes
<code>uplink_variations</code>	<code>&lt;array of &lt;object&gt;&gt;</code>	List of Uplink Variations	
<code>uplink_variations[items]</code>	<code>&lt;object&gt;</code>		
<code>id</code>	<code>&lt;integer&gt;</code>	Uplink Variation ID	Read-only; Range: 1 to 18446744073709551615;
<code>name</code>	<code>&lt;string&gt;</code>	Uplink Variation Name	Pattern: '^(\\S.*?)?\\S\$';

---

## Links

### uplink\_variations: get

GET `http://{device}/api/sh.appflow/2.0/uplink_variations{?uplink_id,name,qos_profile_id}`

Response Body

Returns an [uplink\\_variations](#) data object.

### uplink\_variations: set

PUT `http://{device}/api/sh.appflow/2.0/uplink_variations{?uplink_id,name,qos_profile_id}`

Request Body

Provide an [empty\\_collection](#) data object.

Response Body

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

---

## Resource: path

## Site Uplink Combination

```
http://{device}/api/sh.appflow/2.0/paths/items/{site_id}/{uplink_id}
```

### JSON

```
{
  "site_id": number,
  "uplink_id": number,
  "estimated_ob_bw": number,
  "estimated_ib_bw": number,
  "configured_ob_bw": number,
  "configured_ib_bw": number
}
```

Property Name	Type	Description	Notes
<i>path</i>	<object>	Site Uplink Combination	
<i>path.site_id</i>	<number>	Reference to the Site	Optional;
<i>path.uplink_id</i>	<number>	Reference to the Uplink	Optional;
<i>path.estimated_ob_bw</i>	<number>	Estimated outbound bottleneck bandwidth of the site (site_id) over the uplink (uplink_id)	Read-only; Optional;
<i>path.estimated_ib_bw</i>	<number>	Estimated inbound bottleneck bandwidth of the site (site_id) over the uplink (uplink_id)	Read-only; Optional;
<i>path.configured_ob_bw</i>	<number>	Configured outbound bottleneck bandwidth of the site (site_id) over the uplink (uplink_id)	Optional;
<i>path.configured_ib_bw</i>	<number>	Configured inbound bottleneck bandwidth of the site (site_id) over the uplink (uplink_id)	Optional;

## Links

### path: get

```
GET http://{device}/api/sh.appflow/2.0/paths/items/{site_id}/{uplink_id}
```

#### Response Body

Returns a [path](#) data object.

### path: set

```
PUT http://{device}/api/sh.appflow/2.0/paths/items/{site_id}/{uplink_id}
```

#### Request Body

Provide a [path](#) data object.

#### Response Body

Returns a [path](#) data object.

## Relations

### path: instances

Related resource

[paths](#)

### path: site

Related resource

[site](#)

#### Variables

Related var	Data value for replacement
id	0/site_id

## path: uplink

Related resource

[uplink](#)

Variables

Related var	Data value for replacement
id	0/uplink_id

## Resource: paths

List of Path (Site Uplink Combinations)

```
http://{device}/api/sh.appflow/2.0/paths-{?uplink_id,site_id}
```

JSON

```
[
  {
    "site_id": number,
    "uplink_id": number,
    "estimated_ob_bw": number,
    "estimated_ib_bw": number,
    "configured_ob_bw": number,
    "configured_ib_bw": number
  }
]
```

Property Name	Type	Description	Notes
<i>paths</i>	<i>&lt;array of &lt;items&gt;&gt;</i>	List of Path (Site Uplink Combinations)	
<i>items</i>	<i>&lt;object&gt;</i>	Site Uplink Combination	
<i>items.site_id</i>	<i>&lt;number&gt;</i>	Reference to the Site	Optional;
<i>items.uplink_id</i>	<i>&lt;number&gt;</i>	Reference to the Uplink	Optional;
<i>items.estimated_ob_bw</i>	<i>&lt;number&gt;</i>	Estimated outbound bottleneck bandwidth of the site (site_id) over the uplink (uplink_id)	Read-only; Optional;
<i>items.estimated_ib_bw</i>	<i>&lt;number&gt;</i>	Estimated inbound bottleneck bandwidth of the site (site_id) over the uplink (uplink_id)	Read-only; Optional;
<i>items.configured_ob_bw</i>	<i>&lt;number&gt;</i>	Configured outbound bottleneck bandwidth of the site (site_id) over the uplink (uplink_id)	Optional;
<i>items.configured_ib_bw</i>	<i>&lt;number&gt;</i>	Configured inbound bottleneck bandwidth of the site (site_id) over the uplink (uplink_id)	Optional;

## Links

### paths: get

```
GET http://{device}/api/sh.appflow/2.0/paths-{?uplink_id,site_id}
```

Response Body

Returns a [paths](#) data object.

## Resource: shaper\_id

QoS Class ID in Shaper (Linux Kernel)

```
http://{device}/api/sh.appflow/2.0/shaper_ids/items/{class_shaper_id}
```

JSON

```
{
  "site_id": integer,
  "site_name": string,
  "class_id": integer,
  "class_name": string,
  "direction": number,
  "class_shaper_id": number
}
```

Property Name	Type	Description	Notes
<i>shaper_id</i>	<object>	QoS Class ID in Shaper (Linux Kernel)	Required properties: [site_id, class_id, class_shaper_id];
<i>site_id</i>	<integer>	Reference to the Site.	Read-only; Range: 1 to 18446744073709551615;
<i>site_name</i>	<string>	Site name	Pattern: '^(S.*)?\\$';
<i>class_id</i>	<integer>	Reference to the Class.	Read-only; Range: 1 to 18446744073709551615;
<i>class_name</i>	<string>	Class name	Pattern: '^(S.*)?\\$';
<i>shaper_id.direction</i>	<number>	Outbound - 0, Inbound - 1	Optional; Range: 0 to 1;
<i>shaper_id.class_shaper_id</i>	<number>	QoS class ID in shaper (minor ID of a TC class)	Range: 1 to 65535;

## Links

### shaper\_id: get

Get the data representation of a class shaper ID.

```
GET http://{device}/api/sh.appflow/2.0/shaper_ids/items/{class_shaper_id}
```

#### Response Body

Returns a [shaper\\_id](#) data object.

## Relations

### shaper\_id: instances

Related resource

[shaper\\_ids](#)

### shaper\_id: full

Related resource

[shaper\\_id](#)

#### Variables

Related var	Data value for replacement
class_shaper_id	0/class_shaper_id

## Resource: shaper\_ids

List of QoS Class Shaper IDs

```
http://{device}/api/sh.appflow/2.0/shaper_ids{?class_id,direction,class_shaper_id,site_id}
```

#### JSON

```
[ shaper_id ]
```

Property Name	Type	Description	Notes
<i>shaper_ids</i>	<array of <shaper_id>>	List of QoS Class Shaper IDs	

shaper\_ids[items]

<shaper\_id>

QoS Class ID in Shaper (Linux Kernel)

## Links

### shaper\_ids: get

```
GET http://{device}/api/sh.appflow/2.0/shaper_ids{?class_id,direction,class_shaper_id,site_id}
```

#### Response Body

Returns a [shaper\\_ids](#) data object.

## Resource: global\_configs

Global Configuration Collection

```
http://{device}/api/sh.appflow/2.0/global_configs{?group,name,value}
```

#### JSON

```
[ global_config ]
```

Property Name	Type	Description	Notes
global_configs	<array of <global_config>>	Global Configuration Collection	
global_configs[items]	<global_config>	Global Configuration Item	

## Links

### global\_configs: get

```
GET http://{device}/api/sh.appflow/2.0/global_configs{?group,name,value}
```

#### Response Body

Returns a [global\\_configs](#) data object.

## Resource: global\_config

Global Configuration Item

```
http://{device}/api/sh.appflow/2.0/global_configs/items/{group}/{name}
```

#### JSON

```
{
  "group": name,
  "name": name,
  "value": string
}
```

Property Name	Type	Description	Notes
global_config	<object>	Global Configuration Item	Required properties: [group, name, value];
global_config.group	<name>	Generic name field, only alphanumeric '-' and '_' allowed	Pattern: '^[a-zA-Z0-9_-]+\$';
global_config.name	<name>	Generic name field, only alphanumeric '-' and '_' allowed	Pattern: '^[a-zA-Z0-9_-]+\$';
global_config.value	<string>		

## Links

### global\_config: get

```
GET http://{device}/api/sh.appflow/2.0/global_configs/items/{group}/{name}
```

## Response Body

Returns a [global\\_config](#) data object.

## global\_config: set

```
PUT http://{device}/api/sh.appflow/2.0/global_configs/items/{group}/{name}
```

## Request Body

Provide a [global\\_config](#) data object.

## Response Body

Returns a [global\\_config](#) data object.

## Relations

## global\_config: full

### Related resource

[global\\_config](#)

### Variables

Related var	Data value for replacement
group	0/group
name	0/name

## Resource: path\_stats

Read-Only Resource for Path-Selection Statistics

```
http://{device}/api/sh.appflow/2.0/path_stats{?area_id,uplink_id,remote_site_id,peer_ip}
```

### JSON

```
{
  "local_site_id": identifier,
  "local_site_name": unrestricted_name,
  "uplinks": [
    {
      "uplink_id": identifier,
      "uplink_name": unrestricted_name,
      "uplink_status": uplink_status,
      "remote_sites": [
        {
          "remote_site_id": identifier,
          "remote_site_name": unrestricted_name,
          "areas": [
            {
              "area_id": identifier,
              "bytes_sent": integer,
              "peers_availability": [
                {
                  "peer_ip": ipv4address,
                  "status": peer_availability,
                  "public_ip": ipv4address,
                  "port": integer
                }
              ]
            }
          ]
        }
      ]
    }
  ]
}
```

Property Name	Type	Description	Notes
---------------	------	-------------	-------

<i>path_stats</i>	<i>&lt;object&gt;</i>	Read-Only Resource for Path-Selection Statistics	
<i>path_stats.local_site_id</i>	<i>&lt;identifier&gt;</i>	Generic numeric identifier	Read-only;
<i>path_stats.local_site_name</i>	<i>&lt;unrestricted_name&gt;</i>	Generic name field, all characters allowed except for leading and trailing whitespace	Pattern: '^(\S.*?)\S\$';
<i>path_stats.uplinks</i>	<i>&lt;array of &lt;object&gt;&gt;</i>		Optional;
<i>path_stats.uplinks[items]</i>	<i>&lt;object&gt;</i>		
<i>path_stats.uplinks[items].uplink_id</i>	<i>&lt;identifier&gt;</i>	Generic numeric identifier	Read-only;
<i>path_stats.uplinks[items].uplink_name</i>	<i>&lt;unrestricted_name&gt;</i>	Generic name field, all characters allowed except for leading and trailing whitespace	Pattern: '^(\S.*?)\S\$';
<i>path_stats.uplinks[items].uplink_status</i>	<i>&lt;uplink_status&gt;</i>	Uplink status based on remote peers availability * healthy - all the remote peer are `up` or `never` * warning - some of the remote peers are `down` * critical - all of the remote peers are `down` or `never`	Values: healthy, warning, critical;
<i>path_stats.uplinks[items].remote_sites</i>	<i>&lt;array of &lt;object&gt;&gt;</i>		Optional;
<i>path_stats.uplinks[items].remote_sites[items]</i>	<i>&lt;object&gt;</i>		
<i>path_stats.uplinks[items].remote_sites[items].remote_site_id</i>	<i>&lt;identifier&gt;</i>	Generic numeric identifier	Read-only;
<i>path_stats.uplinks[items].remote_sites[items].remote_site_name</i>	<i>&lt;unrestricted_name&gt;</i>	Generic name field, all characters allowed except for leading and trailing whitespace	Pattern: '^(\S.*?)\S\$';
<i>path_stats.uplinks[items].remote_sites[items].areas</i>	<i>&lt;array of &lt;object&gt;&gt;</i>		Optional;
<i>path_stats.uplinks[items].remote_sites[items].areas[items]</i>	<i>&lt;object&gt;</i>		
<i>path_stats.uplinks[items].remote_sites[items].areas[items].area_id</i>	<i>&lt;identifier&gt;</i>	Generic numeric identifier	Read-only;
<i>path_stats.uplinks[items].remote_sites[items].areas[items].bytes_sent</i>	<i>&lt;integer&gt;</i>		Optional;
<i>path_stats.uplinks[items].remote_sites[items].areas[items].peers_availability</i>	<i>&lt;array of &lt;object&gt;&gt;</i>		Optional;
<i>path_stats.uplinks[items].remote_sites[items].areas[items].peers_availability[items]</i>	<i>&lt;object&gt;</i>		
<i>path_stats.uplinks[items].remote_sites[items].peers_availability[items].peer_ip</i>	<i>&lt;ipv4address&gt;</i>	IPv4 address (x.y.z.k)	Pattern: '^(?:?:25[0-5] 2[0-4][0-9] 01?[0-9]?[0-9])\.(?:25[0-5] 2[0-4][0-9] 01?[0-9]?[0-9])?.\$';
<i>path_stats.uplinks[items].remote_sites[items].peers_availability[items].status</i>	<i>&lt;peer_availability&gt;</i>	Remote peer availability * up - responding to pings * down - Used to be up, now not responding * never - Never responded * unknown - Never tried to ping	Values: down, up, never, unknown;
<i>path_stats.uplinks[items].remote_sites[items].peers_availability[items].public_ip</i>	<i>&lt;ipv4address&gt;</i>	IPv4 address (x.y.z.k)	Pattern: '^(?:?:25[0-5] 2[0-4][0-9] 01?[0-9]?[0-9])\.(?:25[0-5] 2[0-4][0-9] 01?[0-9]?[0-9])?.\$';
<i>path_stats.uplinks[items].remote_sites[items].peers_availability[items].port</i>	<i>&lt;integer&gt;</i>		Optional;

## Links

### path\_stats: get

```
GET http://{device}/api/sh.appflow/2.0/path_stats{?area_id,uplink_id,remote_site_id,peer_ip}
```

#### Response Body

Returns a [path\\_stats](#) data object.

## Resource: migration\_errors

List of Errors Encountered During Migration

```
http://{device}/api/sh.appflow/2.0/migration_errors
```

JSON



```
[
  string
]
```

Property Name	Type	Description	Notes
<i>migration_errors</i>	<i>&lt;array of &lt;string&gt;&gt;</i>	List of Errors Encountered During Migration	
<i>migration_errors</i> [items]	<i>&lt;string&gt;</i>		Read-only;

## Links

### migration\_errors: get

```
GET http://{device}/api/sh.appflow/2.0/migration_errors
```

#### Response Body

Returns a [migration\\_errors](#) data object.

### migration\_errors: set

```
PUT http://{device}/api/sh.appflow/2.0/migration_errors
```

#### Request Body

Provide an [empty\\_collection](#) data object.

#### Response Body

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

## Type: identifier

Generic numeric identifier

JSON

```
integer
```

Property Name	Type	Description	Notes
<i>identifier</i>	<i>&lt;integer&gt;</i>	Generic numeric identifier	Read-only; Range: 1 to 18446744073709551615;

## Type: application\_identifier

Application numeric identifier

JSON

```
integer
```

Property Name	Type	Description	Notes
<i>application_identifier</i>	<i>&lt;integer&gt;</i>	Application numeric identifier	Range: 1 to 65535;

## Type: empty\_collection

Empty collection used to partially clear a collection

JSON

```
multiple
```

Property Name	Type	Description	Notes
<i>empty_collection</i>	<multiple>	Empty collection used to partially clear a collection	
<i>empty_collection.anyOf[0]</i>	<array of <null>>		Maximum: 0 items;
<i>empty_collection.anyOf[0][items]</i>	<null>		
<i>empty_collection.anyOf[1]</i>	<array of <string>>		1-1 items;
<i>empty_collection.anyOf[1][items]</i>	<string>		

## Type: name

Generic name field, only alphanumeric '-' and '\_' allowed

JSON

*string*

Property Name	Type	Description	Notes
<i>name</i>	<string>	Generic name field, only alphanumeric '-' and '_' allowed	Pattern: '^[a-zA-Z0-9_-]+\$';

## Type: unrestricted\_name

Generic name field, all characters allowed except for leading and trailing whitespace

JSON

*string*

Property Name	Type	Description	Notes
<i>unrestricted_name</i>	<string>	Generic name field, all characters allowed except for leading and trailing whitespace	Pattern: '^(\\S.*?)\\S\$';

## Type: percentage

Percentage type

JSON

*number*

Property Name	Type	Description	Notes
<i>percentage</i>	<number>	Percentage type	Range: 0 to 100;

## Type: dscp\_mark

For 6-bit DSCP fields. Used to match the DSCP of packets coming from the wire, and for path-selection probes DSCP.

JSON

*integer*

Property Name	Type	Description	Notes
<i>dscp_mark</i>	<integer>	For 6-bit DSCP fields. Used to match the DSCP of packets coming from the wire, and for path-selection probes DSCP.	Range: 0 to 63;

## Type: dscp\_ps\_special

Special values for path-selection DSCP behavior

**JSON***integer*

Property Name	Type	Description	Notes
<i>dscp_ps_special</i>	<i>&lt;integer&gt;</i>	Special values for path-selection DSCP behavior	Range: 255 to 255;

**Type: dscp\_class\_special**

Special values for class DSCP behavior

**JSON***integer*

Property Name	Type	Description	Notes
<i>dscp_class_special</i>	<i>&lt;integer&gt;</i>	Special values for class DSCP behavior	Range: 255 to 255;

**Type: dscp\_qos\_special**

Special values for QoS DSCP behavior

**JSON***integer*

Property Name	Type	Description	Notes
<i>dscp_qos_special</i>	<i>&lt;integer&gt;</i>	Special values for QoS DSCP behavior	Range: 254 to 255;

**Type: dscp\_ps\_rule**

For extended DSCP fields. Used for the DSCP passed to the data-path. It assumes values from 0 to 63 and values to trigger some extra actions on DSCP: \* 255 to `preserve` the DSCP from inner to outer channel and the other way around.

**JSON***multiple*

Property Name	Type	Description	Notes
<i>dscp_ps_rule</i>	<i>&lt;multiple&gt;</i>	For extended DSCP fields. Used for the DSCP passed to the data-path. It assumes values from 0 to 63 and values to trigger some extra actions on DSCP: * 255 to `preserve` the DSCP from inner to outer channel and the other way around.	
<i>dscp_ps_rule.anyOf[0]</i>	<i>&lt;dscp_mark&gt;</i>	For 6-bit DSCP fields. Used to match the DSCP of packets coming from the wire, and for path-selection probes DSCP.	
<i>dscp_ps_rule.anyOf[1]</i>	<i>&lt;dscp_ps_special&gt;</i>	Special values for path-selection DSCP behavior	

**Type: dscp\_qos\_rule**

For extended DSCP fields. Used for the DSCP passed to the data-path. It assumes values from 0 to 63 and values to trigger some extra actions on DSCP: \* 255 to `preserve` the DSCP from inner to outer channel and the other way around.

**JSON***multiple*

Property Name	Type	Description	Notes
<i>dscp_qos_rule</i>	<multiple>	For extended DSCP fields. Used for the DSCP passed to the data-path. It assumes values from 0 to 63 and values to trigger some extra actions on DSCP: * 255 to `preserve` the DSCP from inner to outer channel and the other way around.	
<i>dscp_qos_rule.anyOf[0]</i>	<dscp_mark>	For 6-bit DSCP fields. Used to match the DSCP of packets coming from the wire, and for path-selection probes DSCP.	
<i>dscp_qos_rule.anyOf[1]</i>	<dscp_qos_special>	Special values for QoS DSCP behavior	

## Type: dscp\_class

For extended DSCP fields. Used for the DSCP passed to the data-path. It assumes values from 0 to 63 and values to trigger some extra actions on DSCP: \* 255 to `preserve` the DSCP from inner to outer channel and the other way around.

### JSON

*multiple*

Property Name	Type	Description	Notes
<i>dscp_class</i>	<multiple>	For extended DSCP fields. Used for the DSCP passed to the data-path. It assumes values from 0 to 63 and values to trigger some extra actions on DSCP: * 255 to `preserve` the DSCP from inner to outer channel and the other way around.	
<i>dscp_class.anyOf[0]</i>	<dscp_mark>	For 6-bit DSCP fields. Used to match the DSCP of packets coming from the wire, and for path-selection probes DSCP.	
<i>dscp_class.anyOf[1]</i>	<dscp_class_special>	Special values for class DSCP behavior	

## Type: ipv4address

IPv4 address (x.y.z.k)

### JSON

*string*

Property Name	Type	Description	Notes
<i>ipv4address</i>	<string>	IPv4 address (x.y.z.k)	Pattern: <code>^(?: (?:(?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?)\.){3} (?:(?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?)\$)</code> ;

## Type: ipv4prefix

IPv4 prefix (x.y.z.k/mask)

### JSON

*string*

Property Name	Type	Description	Notes
<i>ipv4prefix</i>	<string>	IPv4 prefix (x.y.z.k/mask)	Pattern: <code>^(?: (?:(?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?)\.){3} (?:(?:25[0-5] 2[0-4][0-9] [01]?[0-9][0-9]?) ((3[012] [12]?[0-9]))\$)</code> ;

## Type: vlan

Type for VLAN field in the Ethernet header

### JSON

*integer*

Property Name	Type	Description	Notes
<i>vlan</i>	<integer>	Type for VLAN field in the Ethernet header	Range: 0 to 4094;

## Type: peer\_availability

Remote peer availability \* up - responding to pings \* down - Used to be up, now not responding \* never - Never responded \* unknown - Never tried to ping

JSON

```
string
```

Property Name	Type	Description	Notes
<i>peer_availability</i>	<string>	Remote peer availability * up - responding to pings * down - Used to be up, now not responding * never - Never responded * unknown - Never tried to ping	Values: down, up, never, unknown;

## Type: uplink\_status

Uplink status based on remote peers availability \* healthy - all the remote peer are `up` or `never` \* warning - some of the remote peers are `down` \* critical - all of the remote peers are `down` or `never`

JSON

```
string
```

Property Name	Type	Description	Notes
<i>uplink_status</i>	<string>	Uplink status based on remote peers availability * healthy - all the remote peer are `up` or `never` * warning - some of the remote peers are `down` * critical - all of the remote peers are `down` or `never`	Values: healthy, warning, critical;

## Type: classes\_tree

Class hierarchy tree type

JSON

```
{
  "id": integer,
  "name": string,
  "is_default_class": boolean,
  "children": [ classes_tree ]
}
```

Property Name	Type	Description	Notes
<i>classes_tree</i>	<object>	Class hierarchy tree type	
<i>id</i>	<integer>	Class ID	Read-only; Range: 1 to 18446744073709551615;
<i>name</i>	<string>	Class Name	Pattern: '^(\\S.)*?\\S\$';
<i>classes_tree.is_default_class</i>	<boolean>	Is this class the default class in the tree?	Optional;
<i>classes_tree.children</i>	<array of <classes_tree>>		Optional;
<i>classes_tree.children[items]</i>	<classes_tree>	Class hierarchy tree type	