Federated Template Configuration (API Based)

FortiEdge Cloud 26.2

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FortiEdge Cloud 26.2 Federated Template Configuration (API Based)
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Change Log

Date	Change Description
2026-05-01	Initial release.

Overview

This document provides a step-by-step guide to configure a Federated Template Workflow using API calls. It demonstrates how to:

- Create an SSID Profile
- Create a QoS Profile
- Create a Template
- Map SSID and QoS profiles to the Template
- Associate QoS Profile to SSID
- Deploy APs to a Network and apply the Template

This structure ensures scalable, reusable, and centralized configuration management for large deployments.

All configurations are performed via API calls. No GUI support is currently available.

You can access the detailed API references at FortiEdge Cloud REST APIs on the Fortinet Developer Network (FNDN). For more information see Fortinet Developer Network.

Prerequisites

Before configuring using the API, ensure you have the following prerequisites ready:

- Valid FortiEdge Cloud account
- API access enabled
- User: `API_Credentials`
- API client (Postman / Curl / automation tool)
- Network ID and AP serial numbers (SNs)

Note: Please refer the Introduction section in Fortinet Developer Network to get details on API user authentication method.

Configuration

The following is the high-level configuration workflow:

1. Create SSID Profile: Define your wireless network parameters.
2. Create QoS Profile: Establish your quality of service rules.
3. Create Template: Set up the central mapping structure.
4. Map SSID and QoS to Template: Link your created profiles to the central template.
5. Map QoS Profile to SSID: Associate the QoS rules directly with the specific SSID.
6. Deploy APs to Network: Push the configuration to the Access Points (the template is applied automatically via the network).

Create SSID Profile

API

```
POST /v2/public/fap/ssid
```

Endpoint

```
https://<URL>/v2/public/fap/ssid
```

Request Body

```
{
   "name": "Forti_test_API",
   "description": "API_TEST",
   "status": 1,
   "encrypt": "AES",
   "passPhrase": "pskkey",
   "broadcastSsid": 1,
   "beacon_advertising": 1,
   "schedule": 0,
   "scheduleTime": "string",
   "apAuto": true,
   "bandAvailability": 1,
   "security": "wpa2-personal"
}
```

Output

Capture `ssid_oid` from the response.

Create QoS Profile

API

```
POST /v2/public/fap/qos
```

Endpoint

```
https://<URL>/v2/public/fap/qos
```

Request Body


```
{
   "name": "Fortinet_QoS",
   "comments": "Sample",
   "uplink": 20000,
   "downlink": 20000,
   "uplinkSta": 20000,
   "downlinkSta": 2000,
   "burst": 0,
   "wmm": 1,
   "wmmuapsd": 0,
   "wmmcallAdmissionControl": 1,
   "wmmcallCapacity": 60,
   "wmmbandwidthAdmissionControl": 1,
   "wmmbandwidthCapacity": 600000,
   "wmmdscpmapping": 1,
   "wmmvoiceDSCPMapping": "48 56",
   "wmmvideoDSCPMapping": "32 40",
   "wmmbestEffortDSCPMapping": "0 24",
   "wmmbackgroundDSCPMapping": "8 16",
   "wmmdscpmarking": 1,
   "wmmvoiceDSCP": 48,
   "wmmvideoDSCP": 32,
   "wmmbestEffortDSCP": 0,
   "wmmbackgroundDSCP": 8
}
```


Output:


```
{
   "oid": 1063,
   "account_oid": 230691,
   "name": "Fortinet_QoS",
   "comments": "Sample",
   "uplink": 20000,
   "downlink": 20000,
   "uplinkSta": 20000,
   "downlinkSta": 2000,
   "burst": 0,
   "wmm": 1,
   "wmmUAPSD": 0,
   "wmmCallAdmissionControl": 1,
   "wmmCallCapacity": 60,
```

```
   "wmmBandwidthAdmissionControl": 1,
   "wmmBandwidthCapacity": 600000,
   "wmmDSCPMapping": 1,
   "wmmVoiceDSCPMapping": "48 56",
   "wmmVideoDSCPMapping": "32 40",
   "wmmBestEffortDSCPMapping": "0 24",
   "wmmBackgroundDSCPMapping": "8 16",
   "wmmVoiceDSCP": 48,
   "wmmVideoDSCP": 32,
   "wmmBestEffortDSCP": 0,
   "wmmBackgroundDSCP": 8,
   "wmmDSCPMarking": 1
}
```


Capture the `qos_oid`.

Create Template

API

`POST /v2/public/fap/templates`

Endpoint

`https://<URL>/v2/public/fap/templates`

Request Body


```
{
   "name": "Fortinet_Sample_Template",
   "description": "Fortinet_Sample_Template",
   "version": 1
}
```


Output


```
{
   "template_id": 1062,
   "name": "Fortinet_Sample_Template",
   "description": "Fortinet_Sample_Template",
   "version": 1,
   "config_map_json": {},
   "mappings": null
}
```


Capture the `template_oid`.

Map SSID and QoS to Template

API

```
PUT /v2/public/fap/templates/{template_oid}/mappings
```

Endpoint Example

```
https://<URL>/v2/public/fap/templates/{template_oid}/mappings
```

Request Body

```
{
   "qos": {
      "add": [qos_oid]
   },
   "ssid": {
      "add": [ssid_oid]
   }
}
```

Output

```
{
   "template_oid": 24,
   "changes": {
      "qos": {
         "added": 1
      },
      "ssid": {
         "added": 1
      },
      "tags": null,
      "scheduled_upgrade": null,
      "platform_profiles": null,
      "network": {
         "added": 1
      }
   }
}
```

Map QoS Profile to SSID

API

```
PUT /v2/public/fap/ssid/{ssid_oid}
```

Endpoint Example

```
https://<URL>/v2/public/fap/ssid/{ssid_oid}
```

Request Body

```
{
   "qosProfileOid": qos_oid
}
```

Output

```
{
   "msg": "Successfully Edited SSID"
}
```

Deploy APs to Network

API

```
POST /v2/public/fap/networks/{network_id}/deploy/ap
```

Endpoint Example

```
https://<URL>/v2/public/fap/networks/1474/deploy/ap
```

Request Body

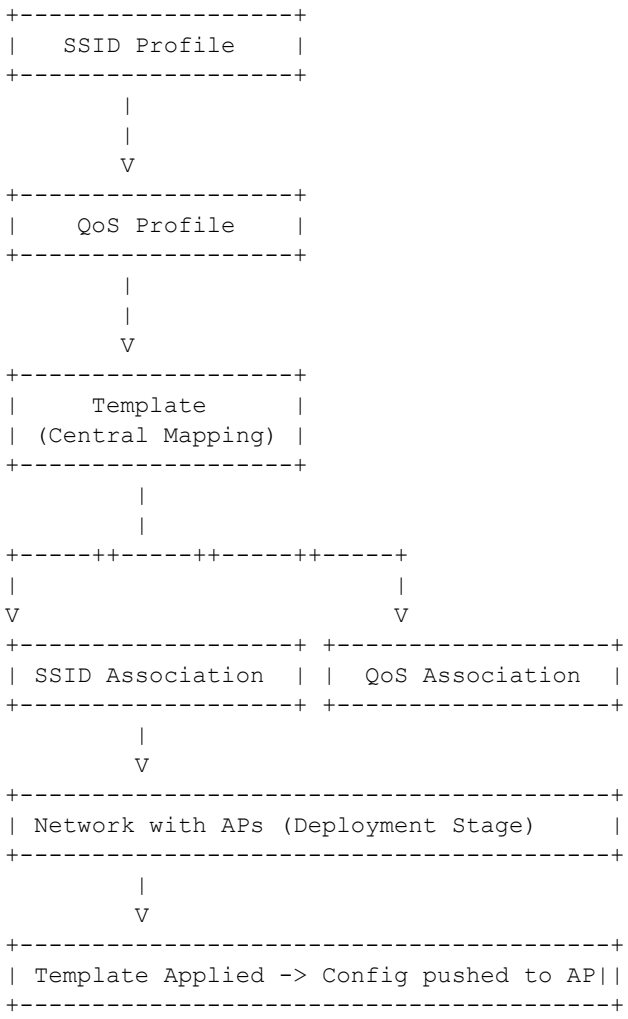
```
{
   "sns": ["ap_sn1", "ap_sn2", "ap_sn3"]
}
```

Output

```
{
   "deployed_count": 3,
   "failed_count": 0,
   "total": 3,
   "network": 1475,
   "message": "successfully deployed aps ['ap_sn1', 'ap_sn2', 'ap_sn3'], failed to deploy
        aps [] under Apportal_02 network"
}
```

where `ap_sn1,ap_sn2,ap_sn3` are the serial numbers of APs.

Federated Configuration Flow Diagram



Important Configuration Notes

- **Critical OID Tracking**: Ensure all returned OIDs (SSID, QoS, Template) are properly stored and reused correctly throughout the configuration process.
- **Order of Operations**: Sequencing matters. Failing to follow the correct configuration order will result in mapping failures.
- **Template Centrality**: The template is the core configuration object. All settings and profiles converge at the template before they are applied to the Access Points (APs).
- **Dual-Step QoS Mapping**: Properly mapping QoS requires two distinct actions:
  a. Add the QoS profile to the Template.
  b. Bind the QoS profile to the SSID.
- **Profile Reusability**: You can associate profiles (SSID, QoS, and Tags) with multiple templates, allowing you to reuse consistent policies across different deployments.
- **Template-to-Network Rules**: While a single template can be applied to multiple networks, each individual network can only be associated with one template at a time.
- **Automatic Update Propagation**: Any modifications made to a profile (SSID, QoS, or Tag) will automatically propagate to all templates and networks utilizing that specific profile.
- **Tag Assignment Requirements**: To assign a Tag profile to a specific device, both the device's network and the Tag profile itself must belong to the same template.
- **Profile Association Constraints**: In order to associate a QoS or Tag profile with an SSID, all involved profiles (the SSID, the QoS, and/or the Tag) must be part of the same template.

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