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What's New in This Guide

This section introduces the documentation updates for release 24.2.x.

Release 24.2.8 - F98414-11, November 2025

There is no change to this document in this release.

Release 24.2.7 - F98414-10, July 2025

There is no change to this document in this release.

Release 24.2.6 - F98414-09, July 2025

Updated Charging Server section with supported REST APIs.

Release 24.2.6 - F98414-08, June 2025

There is no change to this document in this release.

Release 24.2.5 - F98414-07, April 2025

There is no change to this document in this release.

Release 24.2.4 - F98414-06, March 2025

There is no change to this document in this release.

Release 24.2.3 - F98414-05, January 2025

There is no change to this document in this release.

Release 24.2.2 - F98414-04, November 2024

There is no change to this document in this release.

Release 24.2.1 - F98414-02, October 2024

- Added the following APIs for Bulwark service:
  - Acquire lock
  - Release Lock
  - Server Retry on already locked keys

Release 24.2.0 -F98414-03, October 2024

- Added details of exporting and importing Overload Threshold Profiles to Overload Level Threshold Profiles.

Release 24.2.0 - F98414-01, August 2024

- Added details of the following parameters to Usage Monitoring Service section to support Congestion Control:
  - enter a range from [0-31]
  - umCongestionErrorCode

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- Updated the Payload information for PDS, Usage Monitoring and SM Services in Congestion Control section.
- Updated the PCRF Core Service section with details of pending transaction configurations.

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Acronyms

Below table provides information about the acronyms used in the document.

Table Acronyms

Acronym	Definition
AMF	Access and Mobility Management Function
BSF	Oracle Communications Cloud Native core Binding Support Function
CHF	Charging Function
CM	Configuration Management
CUSTOMER_REPO	Docker registry address including the port number, if the docker registry has an associated port.
IMAGE_TAG	Image tag from release tar file. You can use any tag number. However, make sure that you use that specific tag number while pushing docker image to the docker registry.
MCC	Mobile Country code
METALLB_ADDRESS_POOL	Address pool which configured on metallb to provide external IPs .
MNC	Mobile Network code
NRF	Network Repository Function
PCF	Policy Control Function
REST API	Representational State Transfer Application Program Interfaces (REST API)
CNPCRF	Cloud Native Policy and Charging Rules Function
SAN	Subject Alternate Name
SMF	Session Management Function
UDR	Unified Data Repository

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1 Introduction

This document provides information about how to configure the services and manageable objects in Oracle Communications Cloud Native Core Converged Policy using Representational State Transfer Application Program Interfaces (REST API).

1.1 Overview

The Policy solution provides a standard policy design experience and a consistent user experience. This solution supports both 4G and 5G networks. In addition, there is an overlap in PCF and PCRF functionalities, such as need for a policy engine, policy design, Rx, similarity between Sy and Nchf_Spending LimitControl, and so on. Policy utilizes this overlap to build microservices that can be used for providing PCRF and PCF functionalities. Although, it is a unified policy solution, you can deploy PCF and PCRF independently.

Policy is a functional element for policy control decision and flow based charging control functionality. It provides the following functions:

- Policy rules for application and service data flow detection, gating, QoS, and flow based charging to the Session Management Function (SMF)
- Access and Mobility Management related policies to the Access and Mobility Management Function (AMF)
- UE Route Selection Policies (URSP) rules to User Equipement (UE) through AMF
- Access to subscription information relevant for policy decisions in a Unified Data Repository (UDR)
- Network control for service data flow detection, gating, and Quality of Service (QoS)
- Flow based charging towards the Policy and Charging Enforcement Function (PCEF)
- Receiving session and media related information from Application Function (AF) and informing AF of traffic plane events
- Provision of PCC Rules to PCEF through the Gx reference point

The CNC Policy supports the above functions through the following services:

- Session Management Service
- Access and Mobility Service
- Policy Authorization Service
- User Equipment (UE) Policy Service
- PCRF Core Service
- Binding Service
- Policy Data Source Service
- Usage Monitoring Service
- Notifier Service
- NWDAF Agent

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> **Note**
>
> The performance and capacity of the Policy system may vary based on the Call model, Feature/Interface configuration, underlying CNE and hardware environment, including but not limited to the complexity of deployed policies, policy table size , object expression and custom json usage in policy design.

For more information about the Policy supported services, see *Oracle Communications Cloud Native Core, Converged Policy User's Guide*.

1.2 References

Refer the following documents for more information about Policy:

- *Oracle Communications Cloud Native Core, Converged Policy User's Guide*
- *Oracle Communications Cloud Native Core, Converged Policy Installation, Upgrade and Fault Recovery Guide*

1.3 OpenAPI Specification

Policy supports the OpenAPI version 1.0.0.

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2
Policy REST Specifications

This chapter provides information about REST specifications used in Oracle Communications Cloud Native Core, Converged Policy (Policy).

> **Note**
>
> **action** is a query parameter that has been provided for each individual import api, which can either have **replace** or **ignore** value. If the **action** parameter is not provided, then the default value is **ignore**.

2.1 Congestion Control

> **Note**
>
> The default Congestion Control Threshold profile and the Load Shedding Rule cannot be updated by the User.

Table 2-1 Congestion Control Settings Resources

API Description	HTTP Method or Custom Operation	Resource URI	Description	Possible Result Code
Get congestion control configurations.	GET	{apiRoot}/oc-cnpolicy-configuration/v1/congestionConfigurations/{serviceName}	To get enable, stateChangeSampleCount and stateCalculationInterval	See Table A-1
Update congestion control configurations.	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/congestionConfigurations/{serviceName}	To update enable, stateChangeSampleCount and stateCalculationInterval	See Table A-2

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Get and Update Operations

Table 2-2 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enable	boolean	O	Enable or Disable the Pod Congestion Control feature.
stateChangeSampleCount	integer	M	After how many continuous intervals, state can be changed. The count can range from 1 to 2147483647. **Default value** Bulwark Serivce: 2 Other Services: 5
stateCalculationInterval	integer	M	Number of interval in milliseconds, after which the pod congestion state will be re-verified. **Default value** Bulwark Service: 5000ms Other Services: 200ms
activeThresholdProfile	String	O	Active threshold profile for Bulwark service. **Default value**: Default

Sample body request for Put operation for Congestion Control Settings:

```
{
    "enable": true,
    "stateChangeSampleCount": 2,
    "stateCalculationInterval": 5000
}
```

Table 2-3 Congestion Threshold Rest API

API Description	HTTP Method or Custom Operation	Resource URI	Description	Possible Result Code
Get active congestion threshold profile	GET	/oc-cnpolicy-configuration/v1/congestionActiveThresholdProfile/{serviceName}	To get the active congestion threshold profile	See Table A-1

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Table 2-3 (Cont.) Congestion Threshold Rest API

API Description	HTTP Method or Custom Operation	Resource URI	Description	Possible Result Code
Update congestion control active threshold profile	PUT	/oc-cnpolicy-configuration/v1/congestionActiveThresholdProfile/{serviceName}/{activeThresholdProfile}	To update the active threshold profile.	See Table A-2
Get congestion control threshold profiles.	GET	{apiRoot}/oc-cnpolicy-configuration/v1/congestionThresholdProfiles/{serviceName}	To get the CPU and Queue threshold of DANGER_OF_CONGESTION, CONGESTION_L1, CONGESTION_L2 and CONGESTED states for all threshold profiles	See Table A-1
Update congestion control threshold profile.	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/congestionThresholdProfiles/{serviceName}/{profileName}	To update the CPU and Queue threshold of DANGER_OF_CONGESTION, CONGESTION_L1, CONGESTION_L2 and CONGESTED states of specific threshold profile.	See Table A-2
Add congestion control threshold profile.	POST	{apiRoot}/oc-cnpolicy-configuration/v1/congestionThresholdProfiles/{serviceName}/{profileName}	To add new congestion threshold profile with specified name	See Table A-3
Delete congestion control threshold profile.	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/congestionThresholdProfiles/{serviceName}/{profileName}	To delete new congestion threshold profile with specified name	See Table A-4

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Get, Put, and Post Operations

Table 2-4 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	String	M	This value should be same as the `profileName` in path variable.
value	CongestionThresholdState	M	Provide the congestion state.
isCustomProfile	Boolean	M	Denotes that this profile is custom created. **Note**: Currently user can create custom profiles only. Hence this value should be set to `true`.

Table 2-5 CongestionThresholdState

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
state	String	M	The value can be following pod Congestion states: • DANGER_OF_CONGESTION • CONGESTION_L1 • CONGESTION_L2 • CONGESTED Bulwark service supports only two states DANGER_OF_CONGESTION and CONGESTED.
resourceUsageLimit	CongestionResourceUsageLimit	M	The Threshold profiles resource usage limits for CPU & Queue.

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Table 2-6 CongestionResourceUsageLimit

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
cpu	integer	M	Specifies the Queue percentage for Bulwark and Queue (pending requests) for all other Policy services across all the congestion levels. For Bulwark the range is 1 to 100 and for other services the range is between 1 to 2147483647.
queue	integer	M	Specifies the CPU percentage across all the congestion levels. The number can be between 1 to 100.

Sample body request for Put and Post operations for Bulwark Service:

```
{
"name": "profileName",
"isCustomProfile": true,
"value": [
        {
        "state": "DANGER_OF_CONGESTION",
        "resourceUsageLimit": {
          "cpu": 80,
          "queue": 75
        }
      },
      {
        "state": "CONGESTED",
        "resourceUsageLimit": {
          "cpu": 90,
          "queue": 85
        }
      }
]}
```

Sample body request for Put and Post operations for Congestion Threshold Profiles:

```
{
"name": "profileName",
"isCustomProfile": true,
"value": [
        {
        "state": "DANGER_OF_CONGESTION",
        "resourceUsageLimit": {
```


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```
            "cpu": 70,
            "queue": 30
          }
        },
        {
          "state": "CONGESTION_L1",
          "resourceUsageLimit": {
            "cpu": 75,
            "queue": 36
          }
        },
       {
          "state": "CONGESTION_L2",
          "resourceUsageLimit": {
            "cpu": 80,
            "queue": 42
          }
        },
        {
          "state": "CONGESTED",
          "resourceUsageLimit": {
            "cpu": 85,
            "queue": 48
          }
        }
]}
```

Table 2-7 Congestion Load Shedding Profiles Rest API

API Description	HTTP Method or Custom Operation	Resource URI	Description	Possible Result Code
Get congestion load shedding profile	GET	{apiRoot}/oc-cnpolicy-configuration/v1/congestionLoadSheddingProfile/{serviceName}	To get the name, type and active load shedding rule.	See Table A-1
Update congestion load shedding profile	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/congestionLoadSheddingProfile/{serviceName}	To update name and loadSheddingRule Name	See Table A-2

Get and Update Operations

Table 2-8 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	String	M	Name of the load shedding profile.

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Table 2-8 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
loadSheddingRuleName	String	M	Name of profile name which we want to activate.
type	String	M	This value will be `congestion` always.

Sample body request for Put and Post operations for Load Shedding Profiles:

```
{
    "name": "profileName",
    "loadSheddingRuleName": "DEFAULT",
    "type": "congestion"
}
```

Table 2-9 Congestion Control Load Shedding Rules Rest API

API Description	HTTP Method or Custom Operation	Resource URI	Description	Possible Result Code
Get congestion control load shedding rules.	GET	{apiRoot}/oc-cnpolicy-configuration/v1/congestionLoadSheddingRule/{serviceName}	To get the discard priority of DANGER_OF_CONGESTION, CONGESTION_L1, CONGESTION_L2 and CONGESTED states for all load shedding rules	See Table A-1
Update congestion control load shedding rules.	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/congestionLoadSheddingRule/{serviceName}/{ruleName}	To update the discard priority of DANGER_OF_CONGESTION, CONGESTION_L1, CONGESTION_L2 and CONGESTED states of specific threshold rule.	See Table A-2
Add congestion control load shedding rule.	POST	{apiRoot}/oc-cnpolicy-configuration/v1/congestionLoadSheddingRule/{serviceName}/{ruleName}	To add new congestion load shedding rule with specified name	See Table A-3

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Table 2-9 (Cont.) Congestion Control Load Shedding Rules Rest API

API Description	HTTP Method or Custom Operation	Resource URI	Description	Possible Result Code
Delete congestion control load shedding rule.	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/congestionLoadSheddingRule/{serviceName}/{ruleName}	To delete congestion load shedding rule with specified name	See Table A-4

Get, Put, and Post Operations

Table 2-10 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	String	M	This value should be same as the `ruleName` in path variable.
value	CongestionLoadSheddingState	O	This value should be different congestion states.
isCustomProfile	Boolean	M	Denotes that the rule is custom created by user. **Note**: Currently user can create custom rules only. Hence this value should be set to `true`.

Table 2-11 CongestionLoadSheddingState

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
state	String	M	The value can be following pod Congestion states: • DANGER_OF_CONGESTION • CONGESTION_L1 • CONGESTION_L2 • CONGESTED Bulwark service supports only two states DANGER_OF_CONGESTION and CONGESTED.
discardPriority	integer	M	The discard priority value for the requests.

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Sample body request for Put and Post operations for Bulwark Service:

```
{
  "name": "ruleName",
  "value":
  [
    {
      "state": "CONGESTED",
      "discardPriority": 10
    },
   {
      "state": "DANGER_OF_CONGESTION",
      "discardPriority": 20
    }
  ],
  "isCustomProfile": true
}
```

Sample body request for Put and Post operations for Congestion Control Load Shedding Rule:

```
{
  "name": "ruleName",
  "value":
  [
    {
      "state": "CONGESTED",
      "discardPriority": 20
    },
    {
      "state": "CONGESTION_L2",
      "discardPriority": 24
    },
    {
      "state": "CONGESTION_L1",
      "discardPriority": 27
    },
   {
      "state": "DANGER_OF_CONGESTION",
      "discardPriority": 30
    }
  ],
  "isCustomProfile": true
}
```

Table 2-12 Imort/Export Congestion Control Settings

API Name	Request Url	Request Type	Description
Export Congestion Control Settings	{apiRoot}/oc-cnpolicy-configuration/v1/congestionConfigurations/export	GET	To export congestion control settings

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Table 2-12 (Cont.) Imort/Export Congestion Control Settings

API Name	Request Url	Request Type	Description
Import Congestion Control Settings	{apiRoot}/oc-cnpolicy-configuration/v1/congestionConfigurations/import?action={action}	POST	To import congestion control settings

Table 2-13 Request/Response Body Parameters

Field Name	Data Type	Mandatory/Optional/Conditional	Description
topic	String	M	It should be commonconfig.congestionControlSettings
sourceVersion	String	M	Build version
date	String	M	Date in pattern "*yyyy-MM-dd'T'HH:mm:ss'Z'*"
exportData	Congestion Control Settings Data	M	Array for Congestion Control Settings. This array contains JSON objects for each service that supports congestion control feature.

```
{
  "topic": "commonconfig.congestionControlSettings",
  "sourceVersion": "23.4.0-nb-20231118",
  "date": "2023-12-03T10:48:08Z",
  "exportData": [
    {
      "serviceName": "policyds",
      "stateChangeSampleCount": 2,
      "stateCalculationInterval": 5000,
      "enable": true
    },
    {
      "serviceName": "binding",
      "stateChangeSampleCount": 2,
      "stateCalculationInterval": 5000,
      "enable": true
    },
    {
      "serviceName": "bulwark",
      "activeThresholdProfile": "DEFAULT",
      "stateChangeSampleCount": 2,
      "stateCalculationInterval": 5000
    }
  ]
}
```


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Table 2-14 Import/Export Congestion Control Threshold Profiles

API Name	Request Url	Request Type	Description
Export Congestion Control Threshold Profiles	{apiRoot}/oc-cnpolicy-configuration/v1/congestionThresholdProfiles/export	GET	To export congestion control threshold profiles
Import Congestion Control Threshold Profiles	{apiRoot}/oc-cnpolicy-configuration/v1/congestionThresholdProfiles/import?action={action}	POST	To import congestion control threshold profiles

Table 2-15 Request/Response Body Parameters

Field Name	Data Type	Mandatory/Optional/Conditional	Description
topic	String	M	It should be commonconfig.congestionThresholdProfiles
sourceVersion	String	M	Build version
date	String	M	Date in pattern "*yyyy-MM-dd'T'HH:mm:ss'Z'*"
exportData	Congestion Threshold Profiles Data	M	Array for Congestion Control Threshold Profiles. This array contains JSON objects of each service that supports congestion control feature.

```
{
    "topic": "commonconfig.congestionThresholdProfiles",
    "sourceVersion": "24.1.0-rc.4",
    "date": "2024-02-29T10:03:44Z",
    "exportData": [
        {
            "activeThresholdProfile": "DEFAULT",
            "congestionThresholdProfiles": [
                {
                    "name": "DEFAULT",
                    "value": [
                        {
                            "state": "DANGER_OF_CONGESTION",
                            "resourceUsageLimit": {
                                "cpu": 55,
                                "queue": 60
                            }
                        },
                        {
                            "state": "CONGESTION_L1",
                            "resourceUsageLimit": {
```


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```
                        "cpu": 65,
                        "queue": 70
                    }
                },
                {
                    "state": "CONGESTION_L2",
                    "resourceUsageLimit": {
                        "cpu": 75,
                        "queue": 80
                    }
                },
                {
                    "state": "CONGESTED",
                    "resourceUsageLimit": {
                        "cpu": 85,
                        "queue": 90
                    }
                }
            ],
            "isCustomProfile": false
        }
    ],
    "serviceName": "policyds"
},
{
    "activeThresholdProfile": "DEFAULT",
    "congestionThresholdProfiles": [
        {
            "name": "DEFAULT",
            "value": [
                {
                    "state": "DANGER_OF_CONGESTION",
                    "resourceUsageLimit": {
                        "cpu": 70,
                        "queue": 120
                    }
                },
                {
                    "state": "CONGESTION_L1",
                    "resourceUsageLimit": {
                        "cpu": 75,
                        "queue": 150
                    }
                },
                {
                    "state": "CONGESTION_L2",
                    "resourceUsageLimit": {
                        "cpu": 80,
                        "queue": 180
                    }
                },
                {
                    "state": "CONGESTED",
                    "resourceUsageLimit": {
                        "cpu": 85,
                        "queue": 200
```


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```
                            }
                        }
                    ],
                    "isCustomProfile": false
                }
            ],
            "serviceName": "binding"
        },
        {
            "activeThresholdProfile": "DEFAULT",
            "congestionThresholdProfiles": [
                {
                    "name": "DEFAULT",
                    "value": [
                        {
                            "state": "DANGER_OF_CONGESTION",
                            "resourceUsageLimit": {
                                "cpu": 80,
                                "queue": 75
                            }
                        },
                        {
                            "state": "CONGESTED",
                            "resourceUsageLimit": {
                                "cpu": 90,
                                "queue": 85
                            }
                        }
                    ],
                    "isCustomProfile": false
                }
            ],
            "serviceName": "bulwark"
        }
    ]
}
```

Table 2-16 Import/Export Congestion Control Load Shedding Rules

API Name	Request Url	Request Type	Description
Export Congestion Control Load Shedding Rules	{apiRoot}/oc-cnpolicy-configuration/v1/congestionLoadSheddingRule/export	GET	To export congestion control load shedding rules
Import Congestion Control Load Shedding rules	{apiRoot}/oc-cnpolicy-configuration/v1/congestionLoadSheddingRule/import?action={action}	POST	To import congestion control load shedding rules

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Table 2-17 Request/Response Body Parameters

Field Name	Data Type	Mandatory/Optional/ Conditional	Description
topic	String	M	commonconfig.congestionLoadSheddingRules
sourceVersion	String	M	Build version
date	String	M	Date in pattern "*yyyy-MM-dd'T'HH:mm:ss'Z'*"
exportData	Congestion Load Shedding Data	M	Array for Congestion Control Settings. This array contains JSON objects for each service that supports congestion control feature.


```
{
  "topic": "commonconfig.congestionLoadSheddingRules",
  "sourceVersion": "23.4.0-nb-20231118",
  "date": "2023-12-03T11:14:26Z",  "exportData": [
    {
      "congestionLoadSheddingProfiles": [
        {
          "name": "loadSheddingProfile",
          "loadSheddingRuleName": "rule1",
          "type": "congestion"
        }
      ],
      "congestionLoadSheddingRules": [
        {
          "name": "DEFAULT",
          "value": [
            {
              "state": "CONGESTED",
              "discardPriority": 5
            },
            {
              "state": "CONGESTION_L2",
              "discardPriority": 10
            },
            {
              "state": "CONGESTION_L1",
              "discardPriority": 15
            },
            {
              "state": "DANGER_OF_CONGESTION",
              "discardPriority": 20
            }
          ],
          "isCustomProfile": false
        },
        {
          "name": "rule1",
```


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```
        "value": [
          {
            "state": "CONGESTED",
            "discardPriority": 5
          },
          {
            "state": "CONGESTION_L2",
            "discardPriority": 10
          },
          {
            "state": "CONGESTION_L1",
            "discardPriority": 15
          },
          {
            "state": "DANGER_OF_CONGESTION",
            "discardPriority": 20
          }
        ],
        "isCustomProfile": true
      }
    ],
    "serviceName": "policyds"
  },
  {
    "congestionLoadSheddingProfiles": [
      {
        "name": "loadSheddingProfile",
        "loadSheddingRuleName": "rule1",
        "type": "congestion"
      }
    ],
    "congestionLoadSheddingRules": [
      {
        "name": "DEFAULT",
        "value": [
          {
            "state": "CONGESTED",
            "discardPriority": 20
          },
          {
            "state": "CONGESTION_L2",
            "discardPriority": 24
          },
          {
            "state": "CONGESTION_L1",
            "discardPriority": 27
          },
          {
            "state": "DANGER_OF_CONGESTION",
            "discardPriority": 30
          }
        ],
        "isCustomProfile": false
      },
      {
        "name": "rule1",
```


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```
            "value": [
              {
                "state": "CONGESTED",
                "discardPriority": 5
              },
              {
                "state": "CONGESTION_L2",
                "discardPriority": 10
              },
              {
                "state": "CONGESTION_L1",
                "discardPriority": 15
              },
              {
                "state": "DANGER_OF_CONGESTION",
                "discardPriority": 20
              }
            ],
            "isCustomProfile": true
          }
        ],
        "serviceName": "binding"
      },
      {
        "congestionLoadSheddingProfiles": [
          {
            "name": "loadSheddingProfile",
            "loadSheddingRuleName": "DEFAULT",
            "type": "congestion"
          }
        ],
        "congestionLoadSheddingRules": [
          {
            "name": "DEFAULT",
            "value": [
              {
                "state": "DANGER_OF_CONGESTION",
                "discardPriority": 20
              },
              {
                "state": "CONGESTED",
                "discardPriority": 10
              }
            ],
            "isCustomProfile": false
          }
        ],
        "serviceName": "bulwark"
      }
    ]
  }
```


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2.2 NRF Agent

Table 2-18 Policy General Settings APIs Schema updated for supporting Sbi-correlation:

Description	HTTP Method	Resource URI	Application Type	Response Status
Get NRF Agent Service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/nrfAgent	application/json	See Table A-1
Update NRF Agent Service	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/nrfAgent	application/json	See Table A-2
Import NRF agent service	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/nrfAgent/export	application/json	
Export NRF agent service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/nrfAgent/import	application/json	

Table 2-19 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
nrfAgentNfCommProfile	String	O	NRF Agent Communication Profile
onDemandDiscoveryCaching.enableFeature	Boolean	O	Indicates NRF Client to cache the profile data and use it to process the future discovery on-demand requests. **Default value**: false

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Table 2-19 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
onDemandDiscoveryCaching.queryParameters	String	O	Accepts the list of parameters that NRF Client uses to fetch the profile data from cache. **Note**: The query parameters in the request from SM service, AM service, UE Policy service must match and must be in the same order as the data received from NRF. Otherwise, NRF Client can not process the request. Supported values: • target-nf-type • requester-nf-type • target-nf-set-id • service-names • amf-region-id • amf-set-id • GUAMI
onDemandDiscoveryCaching.refreshBeforeExpiryTime	String	O	Indicates the time in milliseconds before expiration when a rediscovery must be performed for the requested discovery parameters. **Default value**: 4500
onDemandDiscoveryCaching.limitCacheEntries	String	O	Parameter to set the upper bound of cache registries allowed to be retained. **Default value**: 2000
onDemandDiscoveryCaching.retentionPeriod	String	O	Indicates the time a record is allowed to stay in database after expiry and before any clean process is executed. **Default value**: 864000000 **Note**: Retention Period value is ignored when force discovery is enabled

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Table 2-19 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
onDemandDiscoveryCaching.auditorSchedulerInterval	String	O	Parameter to set time in milliseconds to activate the Discovery Cache auditor service to clean stale records. **Default value**: 1800000
onDemandDiscoveryCaching.auditorPurgePercentage	String	O	Parameter to set the percentage of the cached DiscoveryRequests that will be pruned once the threshold has been passed. **Default value**: 20

Sample Response/Request body structure for GET and PUT operations respectively:

```
{
  "nrfAgentNfCommProfile": "string"
  "onDemandDiscoveryCaching":
  {
    "enableFeature": false,
    "queryParameters": [],
    "refreshBeforeExpiryTime": 4500,
    "limitCacheEntries": 2000,
    "retentionPeriod": 864000000,
    "auditorSchedulerInterval": 1800000,
    "auditorPurgePercentage": 20
  }
}
```

2.3 Error Configurations

API support is available for EXPORT/IMPORT of error handler configurations.

Table 2-20 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Media Type	Possible Result Code
Export Error Configuration	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/errorHandler/errorConfiguration/export	application/json	See Table A-1

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Table 2-20 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Media Type	Possible Result Code
Import Error Configuration	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/errorHandler/errorConfiguration/import	application/json	See Table A-3

This section describes the body parameters for Error Import or Export Configurations.

Table 2-21 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
topic	string	M	Topic of each managed object
sourceVersion	string	O	System version of product from which data is exported
date	string	O	Current Timestamp
exportData	array	M	Exported list of error rules configurations

Sample Request body for Diameter Error Configurations PUT operation:

```
{
  "topic": "public.policy.error.handler.config",
  "sourceVersion": "24.2.4-rc.10",
  "date": "2025-03-10T12:05:20Z",
  "exportData": [
    {
      "ruleMapperConfigs": [
        {
          "templateId": "errorEnhancementConfiguration",
          "action": "REJECT_WITH_ENHANCED_DETAIL",
          "ruleName": "REJECT_WITH_ENHANCED_DETAIL",
          "isDefault": false,
          "context": {
            "type": "java",
            "inputs": {
              "EXCLUDE_FROM_ERROR_MESSAGE": [
                "ERROR_STATE",
                "PROBLEM_CAUSE"
              ]
            }
          },
          "errorMatcher": {
            "errorStateDisp": {
```


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```
            "errorType": {
              "label": "Internal",
              "value": "EI"
            },
            "origin": {
              "label": "Java",
              "value": "05"
            },
            "operation": {
              "label": "NA",
              "value": "**"
            },
            "errorStatus": {
              "label": "NA",
              "value": "**"
            },
            "sourceInterface": {
              "label": "Application Error",
              "value": "**"
            },
            "targetInterface": {
              "label": "NA",
              "value": "**"
            }
          },
          "errorCauseDisp": {
            "cause": {
              "label": "NA",
              "value": "**"
            }
          },
          "errorCause": {
            "field": "CAUSE",
            "match": "EQUALS",
            "value": {
              "cause": "**"
            }
          },
          "errorState": "EI-05-**-**-**-**"
        },
        "priority": 1,
        "key": "70c4a6b3-9b98-880d-a585-037409275b9c",
        "errorRuleEnabled": true
      }
    ],
    "enableErrorHandler": false,
    "maxAttempts": 1,
    "serviceName": "occnp-binding"
  },
  {
    "ruleMapperConfigs": [
      {
        "templateId": "errorEnhancementConfiguration",
        "action": "REJECT_WITH_ENHANCED_DETAIL",
        "ruleName": "REJECT_WITH_ENHANCED_DETAIL",
        "isDefault": false,
```


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```
      "context": {
        "type": "java",
        "inputs": {
          "EXCLUDE_FROM_ERROR_MESSAGE": [
            "ERROR_STATE",
            "PROBLEM_CAUSE"
          ]
        }
      },
      "errorMatcher": {
        "errorStateDisp": {
          "errorType": {
            "label": "Internal",
            "value": "EI"
          },
          "origin": {
            "label": "Java",
            "value": "05"
          },
          "operation": {
            "label": "NA",
            "value": "**"
          },
          "errorStatus": {
            "label": "NA",
            "value": "**"
          },
          "sourceInterface": {
            "label": "Application Error",
            "value": "**"
          },
          "targetInterface": {
            "label": "NA",
            "value": "**"
          }
        },
        "errorCauseDisp": {
          "cause": {
            "label": "NA",
            "value": "**"
          }
        },
        "errorCause": {
          "field": "CAUSE",
          "match": "EQUALS",
          "value": {
            "cause": "**"
          }
        },
        "errorState": "EI-05-**-**-**-**"
      },
      "priority": 1,
      "key": "29141c2d-4243-24f9-cc4b-1a47248376d3",
      "errorRuleEnabled": true
    }
  ],
```


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```
  "enableErrorHandler": false,
  "maxAttempts": 1,
  "serviceName": "occnp_pcf_am"
},
{
  "ruleMapperConfigs": [],
  "enableErrorHandler": false,
  "maxAttempts": 1,
  "serviceName": "diam-gateway"
},
{
  "ruleMapperConfigs": [
    {
      "templateId": "errorEnhancementConfiguration",
      "action": "REJECT_WITH_ENHANCED_DETAIL",
      "ruleName": "REJECT_WITH_ENHANCED_DETAIL",
      "isDefault": false,
      "context": {
        "type": "java",
        "inputs": {
          "EXCLUDE_FROM_ERROR_MESSAGE": [
            "ERROR_STATE",
            "PROBLEM_CAUSE"
          ]
        }
      },
      "errorMatcher": {
        "errorStateDisp": {
          "errorType": {
            "label": "Internal",
            "value": "EI"
          },
          "origin": {
            "label": "Java",
            "value": "05"
          },
          "operation": {
            "label": "NA",
            "value": "**"
          },
          "errorStatus": {
            "label": "NA",
            "value": "**"
          },
          "sourceInterface": {
            "label": "Application Error",
            "value": "**"
          },
          "targetInterface": {
            "label": "NA",
            "value": "**"
          }
        },
        "errorCauseDisp": {
          "cause": {
            "label": "NA",
```


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```
            "value": "**"
          }
        },
        "errorCause": {
          "field": "CAUSE",
          "match": "EQUALS",
          "value": {
            "cause": "**"
          }
        },
        "errorState": "EI-05-**-**-**-**"
      },
      "priority": 1,
      "key": "29141c2d-4243-24f9-cc4b-1a47248376d3",
      "errorRuleEnabled": true
    }
  ],
  "enableErrorHandler": false,
  "maxAttempts": 1,
  "serviceName": "occnp_pcf_sm"
},
{
  "ruleMapperConfigs": [],
  "enableErrorHandler": false,
  "maxAttempts": 1,
  "serviceName": "occnp_pcf_pa"
},
{
  "ruleMapperConfigs": [
    {
      "templateId": "errorEnhancementConfiguration",
      "action": "REJECT_WITH_ENHANCED_DETAIL",
      "ruleName": "REJECT_WITH_ENHANCED_DETAIL",
      "isDefault": false,
      "context": {
        "type": "java",
        "inputs": {
          "EXCLUDE_FROM_ERROR_MESSAGE": [
            "ERROR_STATE",
            "PROBLEM_CAUSE"
          ]
        }
      },
      "errorMatcher": {
        "errorStateDisp": {
          "errorType": {
            "label": "Internal",
            "value": "EI"
          },
          "origin": {
            "label": "Java",
            "value": "05"
          },
          "operation": {
            "label": "NA",
            "value": "**"
```


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```
            },
            "errorStatus": {
              "label": "NA",
              "value": "**"
            },
            "sourceInterface": {
              "label": "Application Error",
              "value": "**"
            },
            "targetInterface": {
              "label": "NA",
              "value": "**"
            }
          },
          "errorCauseDisp": {
            "cause": {
              "label": "NA",
              "value": "**"
            }
          },
          "errorCause": {
            "field": "CAUSE",
            "match": "EQUALS",
            "value": {
              "cause": "**"
            }
          },
          "errorState": "EI-05-**-**-**-**"
        },
        "priority": 1,
        "key": "889df026-5ec8-eff6-50aa-b50043043c1c",
        "errorRuleEnabled": true
      }
    ],
    "enableErrorHandler": false,
    "maxAttempts": 1,
    "serviceName": "pcf_ueservice"
  }
 ]
}
```


2.4 Diameter Error Codes

Table 2-22 Supported REST APIs - Diameter Error Codes

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get Diameter Error Codes	GET	/oc-cnpolicy-configuration/v1/diameter/diameterErrorCodes/{appId}	200: OK 400: Bad request 404: Not Found 500: Internal Server Error 503: Service Unavailable

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Table 2-22 (Cont.) Supported REST APIs - Diameter Error Codes

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Update Diameter Error Codes	PUT	/oc-cnpolicy-configuration/v1/diameter/diameterErrorCodes/{appId}	200: OK 400: Bad request 404: Not Found 500: Internal Server Error 503: Service Unavailable
Export Diameter Error Codes	GET	/oc-cnpolicy-configuration/v1/diameter/diameterErrorCodes/export	200: OK 400: Bad request 404: Not Found 500: Internal Server Error 503: Service Unavailable
Import Diameter Error Codes	POST	/oc-cnpolicy-configuration/v1/diameter/diameterErrorCodes/import	200: OK 400: Bad request 404: Not Found 500: Internal Server Error 503: Service Unavailable

Get and Update Diameter Error Codes

Table 2-23 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
appId	string	Mandatory	Specifies the application ID.
errorCodes	array	Mandatory	Specifies the error parameters.
conditionName	string	Mandatory	Specifies the system defined name for a given condition.
useExperimentalResultCode	boolean	Optional	Indicates whether to use the Result Code AVP (268) or Experimental Result AVP (297) when an error result is generated by Policy.
errorMessage	string	Optional	Specifies the description for a defined condition. It is recommended to use descriptions that clearly explain the condition.
diameterResultCode	string	Conditional	Specifies the Diameter result code for a defined condition.
experimentalResultCode	string	Conditional	Specifies the custom Diameter result code for a defined condition.

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Sample Request body for Diameter Error Codes PUT operation:

```
{
  "appId": "Rx",
  "errorCodes": [
    {
      "conditionName": "IP CAN session not established",
      "useExperimentalResultCode": false,
      "errorMessage": "Enforcement session not found for current request",
      "diameterResultCode": "3012"
    }
  ]
}
```

Sample Response body structure for Diameter Error Codes GET and PUT operation:

```
{
  "appId": "Rx",
  "errorCodes": [
    {
      "conditionName": "IP CAN session not established",
      "useExperimentalResultCode": false,
      "errorMessage": "Enforcement session not found for current request",
      "diameterResultCode": "3012"
    }
  ]
}
```

Import and Export Diameter Error Codes

Table 2-24 Request or Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
topic	string	Mandatory	Topic of each managed object
sourceVersion	string	Optional	System version of product from which data is exported
date	string	Optional	Current timestamp
exportData	array	Mandatory	Exported list of Error Codes.
appId	string	Mandatory	Specifies the application ID.
errorCodes	string	Mandatory	Specifies the error parameters.
conditionName	string	Mandatory	Specifies the error condition name

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Table 2-24 (Cont.) Request or Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
useExperimentalResultCode	Boolean	Optional	Indicates whether to use the Result Code AVP (268) or Experimental Result AVP (297) when an error result is generated by BSF.
errors.message	string	Optional	Error message
diameterResultCode	string	Conditional	Specifies the custom Diameter result code for a defined condition.

Sample Request Body structure for Diameter Error Codes Import and Export operations:

```
{
  "topic": "diameter.errorcodes.test",
  "sourceVersion": "23.2.0-od-20230307",
  "date": "2023-03-10T17:44:08Z",
  "exportData": [
    {
      "appId": "Rx",
      "errorCodes": [
        {
          "conditionName": "IP CAN session not established",
          "useExperimentalResultCode": false,
          "errorMessage": "Enforcement session not found for current request",
          "diameterResultCode": "3012"
        }
      ]
    }
  ]
}
```

2.5 Session Viewer

Table 2-25 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get Session	GET	{apiRoot}/oc-cnpolicy-query/v1/sessions	See Table A-1
Delete Session	DELETE	{apiRoot}/oc-cnpolicy-query/v1/sessions	See Table A-4

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Get and Delete Session

Table 2-26 Request Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
getUserData	boolean	M	Allowed Values: • true • false
identifierType	string	M	Allowed Values: • SUPI • IMSI • MSISDN • POLICY_ASSOC_ID • DIAMETER_SESSION_ID • GPSI • PEI SM Service supports all the values from 1-6 UE Service supports SUPI, GPSI, PEI, and POLICY_ASSOC_ID AM Service supports SUPI, GPSI, and POLICY_ASSOC_ID PA service only supports POLICY_ASSOC_ID PCRF-CORE supports (IMSI , MSISDN ,IPV4, IPV6, DIAMETER_SESSION_ID) USER-DATA supports SUPI and GPSI UE Service supports (SUPI and POLICY_ASSOC_ID) Usage Monitoring supports SUPI and GPSI ALL supports SUPI and GPSI
identifierValue	string	M	Indicates the value of the selected identifier type.
remote	boolean	O	Allowed Values: • true • false

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Table 2-26 (Cont.) Request Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
sessionType	string	M	Allowed Values: 1. SM_Policy_Association 2. AM_Policy_Association 3. PA_Policy_Association 4. PCRF_Core_Session 5. Binding_Session 6. User_Data 7. UE_Policy_Association 8. Usage_Monitoring 9. All DELETE with "**All**" option is implemented to delete all subscriber/ session for SM and PA session type only.
sessionSubtype	string	O	Allowed Values: • ALL • GX • RX • SD

Sample Response body structure for GET operation:

```
"string"
```

cURL Commands

The following are sample cURL commands for some of the services:

For UE Service

- **GET**

  ```
  curl -X GET "http://<localhost>/oc-cnpolicy-query/v1/sessions?
  identifierType=POLICY_ASSOC_ID&identifierValue=5bc04e63-b2b8-4084-
  b8d5-577c8d05a0b2&sessionType=UE_Policy_Association" -H "accept: application/
  json"
  ```

- **DELETE**

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```
curl -X DELETE "http://<localhost>/oc-cnpolicy-query/v1/sessions?
identifierType=SUPI&identifierValue=imsi-10000000002&sessionType=UE_Policy_Ass
ociation" -H "accept: application/json"
```

For PA Service

- **GET**

```
curl -X GET "http://<localhost>/oc-cnpolicy-query/v1/sessions?
identifierType=POLICY_ASSOC_ID&identifierValue=5bc04e63-b2b8-4084-
b8d5-577c8d05a0b2&sessionType=PA_Policy_Association" -H "accept: application/
json"
```

- **DELETE**

```
curl -X DELETE "http://<localhost>/oc-cnpolicy-query/v1/sessions?
identifierType=POLICY_ASSOC_ID&identifierValue=73c3a7cd-afdb-4ce6-828b-
a0fd2bd401ae&sessionType=PA_Policy_Association" -H "accept: application/json"
```

For AM Service

- **GET**

```
curl -X GET "http://<localhost>/oc-cnpolicy-query/v1/sessions?
identifierType=supi&identifierValue=imsi-450081000000001&sessionType=AM_Policy
_Association" -H "accept: application/json"
```

- **DELETE**

```
curl -X DELETE "http://<localhost>/oc-cnpolicy-query/v1/sessions?
identifierType=SUPI&identifierValue=imsi-450081000000001&sessionType=AM_Policy
_Association" -H "accept: application/json"
```

For PCRF Core Service

- **GET**

```
curl -X 'GET' \ 'https://<localhost>/oc-cnpolicy-query/v1/sessions?
getUserData=true&identifierType=MSISDN&identifierValue=01151601062&sessionType
=PCRF_Core_Session' \ -H 'accept: application/json'
```

- **DELETE**

```
curl -X 'DELETE' \ 'https://<localhost>/oc-cnpolicy-query/v1/sessions?
getUserData=true&identifierType=MSISDN&identifierValue=01151601062&sessionType
=PCRF_Core_Session' \ -H 'accept: application/json'
```

2.6 Global Configurations

Table 2-27 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get Individual General Configuration	GET	{apiRoot}/oc-cnpolicy-configuration/v1/general	See Table A-1
Update General Configuration	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/general	See Table A-2

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Table 2-27 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export Global Configurations	GET	{apiRoot}/oc-cnpolicy-configuration/v1/general/export	See Table A-1
Import Global Configurations	POST	{apiRoot}/oc-cnpolicy-configuration/v1/general/import	See Table A-3

Get and Update Operations

Table 2-28 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
apiGatewayHost	String	O	Name for the API gateway host
apiGatewayPort	Number	O	Port number of the API gateway
enableMetrics	boolean	O	This determines if system metrics is enabled. This will take priority on global metrics config **Default Value**: TRUE
enableTLS	boolean	O	This determines if TLS is enabled **Default Value**: TRUE
enableTracing	boolean	O	This determines if tracing is enabled **Default Value**: TRUE
enableSubscriberLog	boolean	O	This determines if subscriber logging is enabled for a subscriber **Default Value**: FALSE
perHost	string	O	Valid url of PER host to receive the PER record. The format of the url is: http://per-host:per-port, where per-host specifies the PER host and per-port specifies the PER port. For example, http://localhost:8101/v1/echo
enablePER	boolean	O	This determines whether to enable/disable Policy Event Record (PER) feature **Default Value**: false

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Table 2-28 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enableSBICorrelation	boolean	O	This determines whether to enable/disable correlation-info header in PCF **Default Value**: false

Sample Request body structure for PUT operations:

```
{
  "apiGatewayHost": "string",
  "apiGatewayPort": 80,
  "enableMetrics": true,
  "enablePER": true,
  "enableSubscriberLog": true,
  "enableTls": true,
  "enableTracing": true,
  "perHost": "string",
  "enableSBICorrelation": true
}
```

Sample Response body structure for GET and PUT operations:

```
{
  "apiGatewayHost": "string",
  "apiGatewayPort": 80,
  "enableMetrics": true,
  "enablePER": true,
  "enableSubscriberLog": true,
  "enableTls": true,
  "enableTracing": true,
  "perHost": "string",
  "enableSBICorrelation": true
}
```

Export/Import Global Configurations

Table 2-29 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of diameter settings. For more information, see Get and Update Operations

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Table 2-29 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "exportData": {
    "apiGatewayHost": "string",
    "apiGatewayPort": 80,
    "enableMetrics": true,
    "enablePER": true,
    "enableSubscriberLog": true,
    "enableTls": true,
    "enableTracing": true,
    "perHost": "string",
    "enableSBICorrelation": true
  },
  "sourceVersion": "string",
  "topic": "string"
}
```

2.7 Subscriber Logging

Table 2-30 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Subscriber Logging	POST	{apiRoot}/oc-cnpolicy-configuration/v1/subscriberActivityLogging	See Table A-3
Export Subscriber Logs	GET	{apiRoot}/oc-cnpolicy-configuration/v1/subscriberActivityLogging/export	See Table A-1
Import Subscriber Logs	POST	{apiRoot}/oc-cnpolicy-configuration/v1/subscriberActivityLogging/import	See Table A-3
Get Subscriber Logging	GET	{apiRoot}/oc-cnpolicy-configuration/v1/subscriberActivityLogging/{identifierValue}	See Table A-1

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Table 2-30 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Update Subscriber Logging	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/subscriberActivityLogging/{identifierValue}	See Table A-2
Delete Subscriber Logging	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/subscriberActivityLogging/{identifierValue}	See Table A-4

Get and Create Subscriber Logging

Table 2-31 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enable	boolean	O	
type	string	O	
value	string	M	

Sample Request body structure for POST operation:

```
{
  "enable": true,
  "type": "gpsi",
  "value": "string"
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
[
  {
    "date": "string",
    "errors": [
      {
        "message": "string",
        "name": "string"
      }
    ],
    "exportData": [
      {
        "enable": true,
        "type": "gpsi",
        "value": "string"
      }
    ],
    "sourceVersion": "string",
    "topic": "string"
```


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```
  }
]
```

Delete Subscriber Logging

Table 2-32 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
identifierValue	string	M	Subscriber Identifier

Export/Import Subscriber Logging s

Table 2-33 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string	O	Current timestamp
exportData	array	M	Exported list of subscriber logs. For more information, see Get and Create Subscriber Logging.
sourceVersion	string	O	System version of product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "enable": true,
      "type": "gpsi",
      "value": "string"
    }
  ],
  "sourceVersion": "string",
  "topic": "string"
}
```


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2.8 Reattempts Profile

This section describes the service URIs available to create and configure reattempt profiles for Policy.

Table 2-34 Supported REST APIs for Reattempt Profile

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Reattempt Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/reattemptsProfile	See Table A-3
Get Reattempt Profile	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/reattemptsProfile/{retryProfileName}	See Table A-1
Update Reattempt Profile	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/reattemptsProfile/{retryProfileName}	See Table A-2
Export Reattempt Profiles	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/reattemptsProfile/export	See Table A-1
Import Reattempt Profiles	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/reattemptsProfile/import	See Table A-3
Delete Reattempt Profile	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/reattemptsProfile/{retryProfileName}	See Table A-4

Request and Response Body Parameters

This section describes the request and response parameters used in reattempt profile APIs.

Table 2-35 Request and Response Body Parameters (for POST and PUT operations)

Field Name	Data Type	Description
name		The unique name for the reattempt profile. This name is used to refer to the reattempt profile in other service configuration screen, such as SM Service. The name can only contain the characters A–Z, a–z, 0–9, period (.), hyphen (-), and underline (_). The maximum length is 255 characters.
interfaceType		The interface for which a reattempt profile is being created. **Note:** Policy supports only the BSF Interface.

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Table 2-35 (Cont.) Request and Response Body Parameters (for POST and PUT operations)

Field Name	Data Type	Description
reattemptSettings.numberofAttempts		The maximum number of allowed recreate attempts. The number of reattempts that must be run when PCF Binding request fails. **Range:** 0 to 50
reattemptSettings.backOffTimeConfig		The amount of time that represents each back-off timer. The **Back-off timer configurations** table includes the following parameters: • **Index:** Represents the number of back-off timer • **Back-Off Timer:** The timer value in seconds • **Max Random Number (Millisecond):** Any random number that is added to the back-off timer. **Range:** 0-5000 milliseconds **Note:** In case the number of configured attempts in the Back-off timer configurations table is less than the set value for **Maximum Number of Attempts**, the remaining attempts uses the back off timer and max random number of the last configured attempt. **Note:** Policy supports a maximum of 10 back-off timer configurations.
reattemptSettings.thresholdLimitLevel		The threshold limit for the Pending Operations. Once this value is reached, no pending operations are added to the table. **Default Value:** 1000

Sample Request body structure for POST and PUT operations:

```
{
    "name": "profile-name",
    "interfaceType": BSF,
    "reattemptSettings": {
        "numberOfAttempts": 0,
        "backOffTimerConfig": [],
        "thresholdLimitLevel": 0,
    }
}
```

cURL Command for GET

```
curl -X GET "http://<IP Address>/api-docs/oc-cnpolicy-configuration/v1/
services/common/reattemptsProfile/<retryProfileName>" -H "accept: application/
json"
```

cURL Command for POST

```
curl -X POST "http://<IP Address>/api-docs/oc-cnpolicy-configuration/v1/
services/common/reattemptsProfile" -H "accept: application/json" -H "Content-
Type: application/json" -d "{ \"alternateRoutingSettings\":
{ \"enableFallback\": true, \"errorCodesAlternateRoute\":
[ { \"errorCauses\": [ \"string\" ], \"errorCode\": 0 } ],
\"errorCodesReAttempt\": [ { \"errorCauses\": [ \"string\" ], \"errorCode\":
0 } ], \"localityPreference\": \"DIFFERENT\",
```


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\"maxNumOfAlternateRoutingAttempts\": 3, \"nfSetPreference\": \"DIFFERENT\", \"priorityPool\": false, \"reAttemptFailedNF\": true, \"reAttemptSameNf\": true, \"retryFallbackAfterInterval\": 900, \"useAlternateSCPforAlternateRouting\": true, \"useSbiBindingInformation\": true }, \"enableAlternateRouting\": true, \"enableRetry\": true, \"name\": \"string\", \"retrySettings\": { \"maximumNumberOfRetries\": 3 }, \"serverHeaderSupport\": \"DISABLED\"}"

Export or Import Retry Profile

Table 2-36 Response Body Parameters for Import Request

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string	O	Specifies the current timestamp
errors:message	string	O	Specifies the error message.
errors:name	string	O	Specifies the name of the error.
exportData	array	M	Exported retry profile. For more information, see Table 2-38.
key	string	O	Indicates the ID of Retry Profile
sourceVersion	string	O	System version of product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import and Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
  {
    "name": "profile-name",
    "interfaceType": BSF,
    "reattemptSettings": {
        "numberOfAttempts": 0,
        "backOffTimerConfig": [],
        "thresholdLimitLevel": 0,
    }
}
}
```


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2.9 Retry Profile

This section describes the service URIs available to create and configure retry profiles for Policy.

Table 2-37 Supported REST APIs for Retry Profile

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Retry Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/retryprofiles	See Table A-3
Get Retry Profile	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/retryprofiles/{retryProfileName}	See Table A-1
Update Retry Profile	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/retryprofiles/{retryProfileName}	See Table A-2
Export Retry Profiles	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/retryprofiles/export	See Table A-1
Import Retry Profiles	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/retryprofiles/import	See Table A-3
Delete Retry Profile	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/retryprofiles/{retryProfileName}	See Table A-4

Request and Response Body Parameters

This section describes the request and response parameters used in retry profile APIs.

Table 2-38 Request and Response Body Parameters (for POST and PUT operations)

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
alternateRoutingSettings	AlternateRoutingSettings	Optional	Specifies the alternate routing settings for a retry profile.

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Table 2-38 (Cont.) Request and Response Body Parameters (for POST and PUT operations)

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enableAlternateRouting	boolean	Optional	Specifies whether to enable or disable alternate routing. On enabling this switch, ensure that you configure the parameters under the Alternate Routing Settings group. When enabled, alternate routing is attempted when Policy messages are not delivered successfully to an external NF destination. It may happen because of an exception on the Egress Gateway, such as connection error, timeout, or a failure returned by the external NF or an intermediate router.
enableRetry	boolean	Optional	Specifies whether to enable or disable retry for failed messages between core microservices of Policy. On enabling this switch, ensure that you configure the parameters under **Retry Settings** group. However, if the switch is disabled, the configurations in the Retry Settings group are not taken into consideration. When enabled, retries are attempted when PCF encounters internal send failures for egress messages. A failure to send egress messages internally indicates an exception in the core service, such as SM service, UDR or CHF connector, and so on. The exception can occur while connecting to the next microservice or a failure on the microservice itself. For example, egress message did not reach the egress gateway. This also includes the connection errors and timeouts on the core microservice. **Note**: Since the failure is internal, the external NF and SCP (if applicable) remain the same during retry attempt.
name	string	Optional The name can only contain the characters A–Z, a–z, 0–9, period (.), hyphen (-), and underline (_). The maximum length is 255 characters.	Specifies the unique name for the retry profile.

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Table 2-38 (Cont.) Request and Response Body Parameters (for POST and PUT operations)

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
retrySettings	RetrySettings	Optional	Specifies the retry settings for a retry profile.
serverHeaderSupport	Enum The valid values for this parameter are as follow: • DISABLED • MULTI_INSTANCE • SINGLE_INSTANCE	Optional	Specifies whether to enable or disable server header. The value configured in this parameter is used when PCF acts as a consumer and receives server header in error response messages. • Disabled: Disable server header. On disabling server header, Policy as a consumer searches for alternate producer without considering the value of server header. • Single Instance: Accept only one value in the server header. When the value is configured as Single Instance and server header contains multiple values, Policy rejects the header. • Multi Instance: Accept only one value in the server header.
ignoreCustomserverheadervalue	String	Optional	This field appears on selection of either "Single Instance" or "Multi Instance" value for the field **Server Header Support**. In this field you can specify the string pattern that can be ignored in the server header value. This is provided in the form of regular expression. The regular expression evaluates the server header content to ignore the strings that match the pattern specified the regular expression.

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Table 2-39 AlternateRoutingSettings

Field Name	Data Type	Mandatory(M)/Optional(O)/ Conditional(C)	Description
enableFallback	boolean	Optional	Specifies whether to enable or disable falling back to the higher priority destination that failed earlier (after the retry interval). Policy attempts fallback even if the current destination is available. When enabled, Policy attempts to fallback to a higher priority NF destination. The priority of NF destination is determined by Alternate Route service (either via DNS-SRV resolution or by static configuration). By default, it is disabled.
errorCodesAlternateRoute	AlternateRoutingErrorCodes	Optional	Specifies the HTTP error codes for which Policy retries alternate routing on receiving the error response from the destination network function or Egress Gateway.
errorCodesReAttempt	AlternateRoutingErrorCodes	Optional	Specifies the HTTP error codes for which Policy does not look for alternate producer and retries the request to the same producer NF or SCP that failed in the first attempt. Policy considers this parameter only when **Re-attempt to same NF** switch is enabled.

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Table 2-39 (Cont.) AlternateRoutingSettings

Field Name	Data Type	Mandatory(M)/Optional(O)/ Conditional(C)	Description
localityPreference	ENUM The valid values for this parameter are as follow: • DIFFERENT • NONE • SAME	Optional	Specifies the locality preference when choosing the alternate producer for a failed request. Policy excludes the producer (received in the failed request) and selects an alternate producer based on the value provided for this attribute. • Same: Chooses the next producer from the same locality as the previous request. • Different: Chooses the next producer from a different locality. • None **(default)**: Locality filter does not apply.

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Table 2-39 (Cont.) AlternateRoutingSettings

Field Name	Data Type	Mandatory(M)/Optional(O)/ Conditional(C)	Description
maxNumOfAlternateRoutingAttempts	boolean	Optional	Specifies the number of retries that PCF attempts on receiving error response from Ingress Gateway. The number of retry attempts can be in the range of 1 to 10. **Note**: The value configured for this parameter does not include the initial attempt. For instance, if you set the value as 3, Policy performs the retry cycle three times after the initial attempt. If the retry attempts are exhausted, Policy fails the transaction with an exception. In certain cases, the number of retry attempts can be greater than the available alternate destinations to be tried. If such a situation arises, Policy fails the transaction when no alternate destination is available even if retry attempts are still available.

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Table 2-39 (Cont.) AlternateRoutingSettings

Field Name	Data Type	Mandatory(M)/Optional(O)/ Conditional(C)	Description
nfSetPreference	ENUM The valid values for this parameter are as follow: • DIFFERENT • NONE • SAME	Optional	Specifies the NF set preference when choosing the alternate producer for an initial request. Policy excludes the producer (received in the failed request) and selects an alternate producer based on the value provided for this attribute. • Same: Selects the next producer from the same NFSet as the previous request. • Different: Selects the next producer from a different NFSet. • None **(default)**: NFSets filter does not apply. **Note**: This parameter applies only to initial requests. For subsequent requests, the default behavior is to choose the same NFSet irrespective of the value configured for this field.

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Table 2-39 (Cont.) AlternateRoutingSettings

Field Name	Data Type	Mandatory(M)/Optional(O)/ Conditional(C)	Description
reAttemptFailedNF	boolean	Optional	When you set the value for this parameter to true, Policy initiates the retry cycle and sends request to the selected NF when the following conditions are true: • Retry attempts made to all available NF instances • Maximum Number of Alternate Routing Attempt is not exhausted
reAttemptSameNf	boolean	Optional	Specifies whether Policy shall send the request to the same NF that failed in the first attempt. If you set the value to true, make sure to configure the value for `errorCodesReAttempt` attribute. By default, the value is false for this parameter.

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Table 2-39 (Cont.) AlternateRoutingSettings

Field Name	Data Type	Mandatory(M)/Optional(O)/ Conditional(C)	Description
retryFallbackAfterInterval	integer	Optional	Specifies the time in seconds after which Policy re-attempts a request to a higher priority destination. In case of fallback, when a route is being determined while the current destination has not failed, PCF attempts to fallback to a higher priority NF destination. Priority of NF destination is determined by Alternate Route service, either through DNS-SRV resolution or static configuration. You can set the value for retry after interval from 0 to 86,400 seconds. By default, the value is set to 0, which means that a high priority destination is blocklisted. **Note**: • This configuration applies to subsequent message routing only. • Blacklisting may still be done by Egress Gateway • An NF destination (FQDN) is not re-attempted within the context of a single operation, such as SM Modification request

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Table 2-39 (Cont.) AlternateRoutingSettings

Field Name	Data Type	Mandatory(M)/Optional(O)/ Conditional(C)	Description
useAlternateSCPforAlternateRouting	boolean	Optional	Specifies whether to enable or disable choosing alternate SCP to reach the alternate destination. If you set the value for this parameter as true, Egress Gateway uses an alternate SCP for routing to an alternate NF destination. If there are fewer SCPs than alternate NF destinations, Egress Gateway tries sending the request through one of the previously used SCPs. **Note**: Additional SCP configuration is required for Egress Gateway. For more information, see *Oracle Communications Cloud Native Core, Converged Policy Installation, Upgrade and Fault Recovery Guide*.

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Table 2-39 (Cont.) AlternateRoutingSettings

Field Name	Data Type	Mandatory(M)/Optional(O)/ Conditional(C)	Description
useSbiBindingInformation	boolean	Optional	Specifies whether to enable or disable use of information received in 3gpp-sbi-binding header. When Policy receives the unique NF Instance ID in the error response, it retrieves 3gpp-sbi-binding header for that particular NF instance, and then extracts the SetId to choose the alternate producer. This parameter is considered only for subsequent retry requests. By default, the value is false for this attribute. **Note**: When the value is set to false, the NFSet Preference parameter is not taken into consideration.

Table 2-40 AlternateRoutingErrorCodes

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
errorCauses	string	Optional You can configure up to five error causes per error code.	Specifies the HTTP error code. For example, 504
errorCode	integer	Mandatory You can configure up to 10 error codes for a retry profile. Enter a range in [100-999] number	Specifies the error cause. For example, GATEWAY_TIMEOUT, NF_TIMEOUT.

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Table 2-41 RetrySettings

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
maximumNumberOfRetries	integer	Optional The number of retry attempts can be in the range of 1 to 10. **Note**: It is mandatory to configure this parameter if Retry on Internal Send Failure parameter is set to true.	Specifies the number of retries that PCF attempts on encountering failure while sending egress messages between Policy core microservices. **Note**: The value configured for this parameter does not include the initial attempt. For instance, if you set the value as 3, Policy performs the retry cycle three times after the initial attempt.

Sample Request body structure for POST and PUT operations:

```
{
  "alternateRoutingSettings": {
    "enableFallback": true,
    "errorCodesAlternateRoute": [
      {
        "errorCauses": [
          "string"
        ],
        "errorCode": 0
      }
    ],
    "errorCodesReAttempt": [
      {
        "errorCauses": [
          "string"
        ],
        "errorCode": 0
      }
    ],
    "localityPreference": "DIFFERENT",
    "maxNumOfAlternateRoutingAttempts": 3,
    "nfSetPreference": "DIFFERENT",
    "reAttemptFailedNF": true,
    "reAttemptSameNf": true,
    "retryFallbackAfterInterval": 900,
    "useAlternateSCPforAlternateRouting": true,
    "useSbiBindingInformation": true
  },
  "enableAlternateRouting": true,
  "enableRetry": true,
  "name": "string",
  "retrySettings": {
    "maximumNumberOfRetries": 3
  },
```


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```
  "serverHeaderSupport": "DISABLED"
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "alternateRoutingSettings": {
    "enableFallback": true,
    "errorCodesAlternateRoute": [
      {
        "errorCauses": [
          "string"
        ],
        "errorCode": 0
      }
    ],
    "errorCodesReAttempt": [
      {
        "errorCauses": [
          "string"
        ],
        "errorCode": 0
      }
    ],
    "localityPreference": "DIFFERENT",
    "maxNumOfAlternateRoutingAttempts": 3,
    "nfSetPreference": "DIFFERENT",
    "reAttemptFailedNF": true,
    "reAttemptSameNf": true,
    "retryFallbackAfterInterval": 900,
    "useAlternateSCPforAlternateRouting": true,
    "useSbiBindingInformation": true
  },
  "enableAlternateRouting": true,
  "enableRetry": true,
  "name": "string",
  "retrySettings": {
    "maximumNumberOfRetries": 3
  },
  "serverHeaderSupport": "DISABLED"
}
```

cURL Command for GET

```
curl -X GET "http://10.75.168.25:31679/oc-cnpolicy-configuration/v1/services/
common/retryprofiles/<retryProfileName>" -H "accept: application/json"
```

cURL Command for POST

```
curl -X POST "http://10.75.168.25:31679/oc-cnpolicy-configuration/v1/services/
common/retryprofiles" -H "accept: application/json" -H "Content-Type:
application/json" -d "{ \"alternateRoutingSettings\": { \"enableFallback\":
true, \"errorCodesAlternateRoute\": [ { \"errorCauses\": [ \"string\" ],
\"errorCode\": 0 } ], \"errorCodesReAttempt\": [ { \"errorCauses\":
```


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[\"string\"], \"errorCode\": 0 }], \"localityPreference\": \"DIFFERENT\", \"maxNumOfAlternateRoutingAttempts\": 3, \"nfSetPreference\": \"DIFFERENT\", \"priorityPool\": false, \"reAttemptFailedNF\": true, \"reAttemptSameNf\": true, \"retryFallbackAfterInterval\": 900, \"useAlternateSCPforAlternateRouting\": true, \"useSbiBindingInformation\": true }, \"enableAlternateRouting\": true, \"enableRetry\": true, \"name\": \"string\", \"retrySettings\": { \"maximumNumberOfRetries\": 3 }, \"serverHeaderSupport\": \"DISABLED\"}"

Export or Import Retry Profile

Table 2-42 Response Body Parameters for Import Request

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string	O	Specifies the current timestamp
errors:message	string	O	Specifies the error message.
errors:name	string	O	Specifies the name of the error.
exportData	array	M	Exported retry profile. For more information, see Table 2-38.
key	string	O	Indicates the ID of Retry Profile
sourceVersion	string	O	System version of product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import and Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "alternateRoutingSettings": {
        "enableFallback": true,
        "errorCodesAlternateRoute": [
          {
            "errorCauses": [
              "string"
            ],
            "errorCode": 0
          }
```


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```
        ],
        "errorCodesReAttempt": [
          {
            "errorCauses": [
              "string"
            ],
            "errorCode": 0
          }
        ],
        "localityPreference": "DIFFERENT",
        "maxNumOfAlternateRoutingAttempts": 3,
        "nfSetPreference": "DIFFERENT",
        "reAttemptFailedNF": true,
        "reAttemptSameNf": true,
        "retryFallbackAfterInterval": 900,
        "useAlternateSCPforAlternateRouting": true,
        "useSbiBindingInformation": true
      },
      "enableAlternateRouting": true,
      "enableRetry": true,
      "name": "string",
      "retrySettings": {
        "maximumNumberOfRetries": 3
      },
      "serverHeaderSupport": "DISABLED"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "systemVersion": "string",
  "topic": "string"
}
```


2.10 Timer Profile

Table 2-43 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Timer Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/timerprofiles	See Table A-3
Get Timer Profile	GET	/oc-cnpolicy-configuration/v1/services/common/timerprofiles/{serviceType}	See Table A-1
Update Timer Profile	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/timerprofiles/{serviceType}	See Table A-2

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Table 2-43 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export Timer Profiles	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/timerprofiles/export	See Table A-1
Import Timer Profiles	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/timerprofiles/import	See Table A-3
Delete Timer Profile	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/timerprofiles/{serviceType}	See Table A-4

Get, Create, and Update Timer Profiles

Table 2-44 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
serviceType	string	O	Specifies the following supported service types: • PCF User Connector • PCF Session Management • PCF Access and Mobility • PCF UE Policy • PCF Binding Service
UDR.svcTimeoutMapping	SvcTimeoutMappingForUDR	O	
CHF.svcTimeoutMapping	SvcTimeoutMappingForCHF	O	
BSF.svcTimeoutMapping	SvcTimeoutMappingForBSF	O	
SMF.svcTimeoutMapping	SvcTimeoutMappingForSMF	O	
AF.svcTimeoutMapping	SvcTimeoutMappingForAF	O	
AMF.svcTimeoutMapping	SvcTimeoutMappingForAMF	O	

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Table 2-45 SvcTimeoutMappingForUDR Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
nudr-dr	integer	O	Timeout value specified in “3gpp-Sbi-Max-Rsp-Time” header for the nudr-dr service.
QUERY	integer	O	
SUBSCRIBE	integer	O	
UNSUBSCRIBE	integer	O	
UPDATE	integer	O	

Table 2-46 SvcTimeoutMappingForCHF Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
nchf-spendinglimitcontrol	integer	O	Timeout value specified in “3gpp-Sbi-Max-Rsp-Time” header for the nchfspendinglimitcontrol service.

Table 2-47 SvcTimeoutMappingForBSF Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
nbsf-management	integer	O	Timeout value specified in “3gpp-Sbi-Max-Rsp-Time” header for the nbsfmanagement service.

Table 2-48 SvcTimeoutMappingForSMF Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
notification	integer	O	Timeout value specified in “3gpp-Sbi-Max-Rsp-Time” header for the notification service.

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Table 2-49 SvcTimeoutMappingForAF Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
notification	integer	O	Timeout value specified in “3gpp-Sbi-Max-Rsp-Time” header for the notification service.

Table 2-50 SvcTimeoutMappingForAMF Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
namf-comm	integer	O	Timeout value specified in “3gpp-Sbi-Max-Rsp-Time” header for the namf-comm service.
notification	integer	O	Timeout value specified in “3gpp-max-response-time” header for the notification service.

Sample Request body structure for POST and PUT operations:

```
{
  "serviceType": "string",
  "UDR": {
    "svcTimeoutMapping": {
      "nudr-dr": 3000,
      "QUERY": 0,
      "SUBSCRIBE": 0,
      "UNSUBSCRIBE": 0,
      "UPDATE": 0
    }
  },
  "CHF": {
    "svcTimeoutMapping": {
      "nchf-spendinglimitcontrol": 3000
    }
  },
  "BSF": {
    "svcTimeoutMapping": {
      "nbsf-management": 3000
    }
  },
  "SMF": {
    "svcTimeoutMapping": {
      "notification": 3000
    }
  },
  "AF": {
```


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```
    "svcTimeoutMapping": {
      "notification": 3000
    }
  },
  "AMF": {
    "svcTimeoutMapping": {
      "namf-comm": 3000,
      "notification": 3000
    }
  }
}
```

Export/Import Timer Profiles

Table 2-51 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
error.message	string		
error.name	string		
exportData	array		
key	string		
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "systemVersion": "string",
  "topic": "string",
  "sourceVersion": "string",
  "date": "string",
  "exportData": [
    {
      "serviceType": "string",
      "UDR": {
        "svcTimeoutMapping": {
          "nudr-dr": 3000,
          "QUERY": 0,
          "SUBSCRIBE": 0,
          "UNSUBSCRIBE": 0,
          "UPDATE": 0
        }
      },
      "CHF": {
        "svcTimeoutMapping": {
          "nchf-spendinglimitcontrol": 3000
        }
```


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```
      },
      "BSF": {
        "svcTimeoutMapping": {
          "nbsf-management": 3000
        }
      },
      "SMF": {
        "svcTimeoutMapping": {
          "notification": 3000
        }
      },
      "AF": {
        "svcTimeoutMapping": {
          "notification": 3000
        }
      },
      "AMF": {
        "svcTimeoutMapping": {
          "namf-comm": 3000,
          "notification": 3000
        }
      }
    }
  ],
  "errors": [
    {
      "name": "string",
      "message": "string"
    }
  ]
}
```

2.11 Retry Profile for PCC

Table 2-52 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create PCC Retry Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccretryprofiles	See Table A-3
Export PCC Retry Profile	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccretryprofiles/export	See Table A-1
Import PCC Retry Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccretryprofiles/import	See Table A-3

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Table 2-52 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get PCC Retry Profile	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccretryprofiles/{pccRetryProfileName}	See Table A-1
Update PCC Retry Profile	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccretryprofiles/{pccRetryProfileName}	See Table A-2
Delete PCC Retry Profile	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccretryprofiles/{pccRetryProfileName}	See Table A-4

Create, Get, and Update Retry Profile for PCC

Table 2-53 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
backOffInterval	integer	M	Enter a value between 1 and 86400
description	string	O	
id	string	O	
initialRetryInterval	integer	M	Enter a value between 0 and 30
maxRetryAttempt	integer	M	Enter a value between 1 and 10
maxRetryCycles	integer	M	Enter a value between 1 and 4
maxRetryInterval	integer	M	Enter a value between 1 and 180
name	string	M	

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Table 2-53 (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
ruleFailureCode	array		Contains items of type string. Supported values: • UNKNOWN_RULE_NAME • RATING_GROUP_ERROR • SERVICE_IDENTIFIER_ERROR • GW_PCEF_MALFUNCTION • RESOURCES_LIMITATION • MAX_NR_BEARERS_REACHED • UNKNOWN_BEARER_ID • MISSING_BEARER_ID • MISSING_FLOW_INFORMATION • RESOURCE_ALLOCATION_FAILURE • UNSUCCESSFUL_QOS_VALIDATION • INCORRECT_FLOW_INFORMATION • PS_TO_CS_HANDOVER • TDF_APPLICATION_IDENTIFIER_ERROR • NO_BEARER_BOUND • FILTER_RESTRICTIONS • AN_GW_FAILED • MISSING_REDIRECT_SERVER_ADDRESS • CM_END_USER_SERVICE_DENIED • CM_CREDIT_CONTROL_NOT_APPLICABLE • CM_AUTHORIZATION_REJECTED • CM_USER_UNKNOWN • CM_RATING_FAILED

Sample Request Body structure for POST and PUT operations:

```
{
  "backOffInterval": 0,
  "description": "string",
  "id": "string",
  "initialRetryInterval": 0,
  "maxRetryAttempt": 0,
  "maxRetryCycles": 0,
  "maxRetryInterval": 0,
  "name": "string",
  "ruleFailureCode": [
```


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```
    "AN_GW_FAILED"
  ]
}
```

Sample Response Body structure for GET, POST and PUT operations:

```
{
  "backOffInterval": 0,
  "description": "string",
  "id": "string",
  "initialRetryInterval": 0,
  "maxRetryAttempt": 0,
  "maxRetryCycles": 0,
  "maxRetryInterval": 0,
  "name": "string",
  "ruleFailureCode": [
    "AN_GW_FAILED"
  ]
}
```

Export/Import Retry Profile for PCC

Table 2-54 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of PCC retry profile. For more information, see Table 2-53.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
```


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```
    {
      "backOffInterval": 0,
      "description": "string",
      "id": "string",
      "initialRetryInterval": 0,
      "maxRetryAttempt": 0,
      "maxRetryCycles": 0,
      "maxRetryInterval": 0,
      "name": "string",
      "ruleFailureCode": [
        "AN_GW_FAILED"
      ]
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

Delete Retry Profile for PCC

Table 2-55 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
pccRetryProfileName	string	M	PCC Retry Profile Name

2.12 Retry Profile for ADC

Table 2-56 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create ADC Retry Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/adcretryprofiles	See Table A-3
Export ADC Retry Profile	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/adcretryprofiles/export	See Table A-1
Import ADC Retry Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/adcretryprofiles/export	See Table A-3
Get ADC Retry Profile	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/adcretryprofiles/{adcRetryProfileName}	See Table A-1

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Table 2-56 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Update ADC Retry Profile	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/adcretryprofiles/{adcRetryProfileName}	See Table A-2
Delete ADC Retry Profile	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/adcretryprofiles/{adcRetryProfileName}	See Table A-4

Create, Get, and Update Retry Profile for ADC

Table 2-57 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
backOffInterval	integer	M	Enter a value between 1 and 86400
description	string	O	
id	string	O	
initialRetryInterval	integer	M	Enter a value between 0 and 30
maxRetryAttempt	integer	M	Enter a value between 1 and 10
maxRetryCycles	integer	M	Enter a value between 1 and 4
maxRetryInterval	integer	M	Enter a value between 1 and 180
name	string	M	

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Table 2-57 (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
ruleFailureCode	array		Contains items of type string. Supported values: • UNKNOWN_RULE_NAME • RATING_GROUP_ERROR • SERVICE_IDENTIFIER_ERROR • GW_PCEF_MALFUNCTION • RESOURCES_LIMITATION • MAX_NR_BEARERS_REACHED • UNKNOWN_BEARER_ID • MISSING_BEARER_ID • MISSING_FLOW_INFORMATION • RESOURCE_ALLOCATION_FAILURE • UNSUCCESSFUL_QOS_VALIDATION • INCORRECT_FLOW_INFORMATION • PS_TO_CS_HANDOVER • TDF_APPLICATION_IDENTIFIER_ERROR • NO_BEARER_BOUND • FILTER_RESTRICTIONS • AN_GW_FAILED • MISSING_REDIRECT_SERVER_ADDRESS • CM_END_USER_SERVICE_DENIED • CM_CREDIT_CONTROL_NOT_APPLICABLE • CM_AUTHORIZATION_REJECTED • CM_USER_UNKNOWN • CM_RATING_FAILED

Sample Request Body structure for POST and PUT operations:

```
{
  "backOffInterval": 0,
  "description": "string",
  "id": "string",
  "initialRetryInterval": 0,
  "maxRetryAttempt": 0,
  "maxRetryCycles": 0,
  "maxRetryInterval": 0,
  "name": "string",
  "ruleFailureCode": [
```


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```
    "AN_GW_FAILED"
  ]
}
```

Sample Response Body structure for GET, POST and PUT operations:

```
{
  "backOffInterval": 0,
  "description": "string",
  "id": "string",
  "initialRetryInterval": 0,
  "maxRetryAttempt": 0,
  "maxRetryCycles": 0,
  "maxRetryInterval": 0,
  "name": "string",
  "ruleFailureCode": [
    "AN_GW_FAILED"
  ]
}
```

Export/Import Retry Profile for ADC

Table 2-58 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of ADC retry profile.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "backOffInterval": 0,
```


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```
      "description": "string",
      "id": "string",
      "initialRetryInterval": 0,
      "maxRetryAttempt": 0,
      "maxRetryCycles": 0,
      "maxRetryInterval": 0,
      "name": "string",
      "ruleFailureCode": [
        "AN_GW_FAILED"
      ]
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

Delete Retry Profile for ADC

Table 2-59 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
adcRetryProfileName	string	M	ADC Retry Profile Name

2.13 Site Takeover

This section describes the service URIs available to create and configure sites for takeover for Policy.

Table 2-60 Supported REST APIs for Site Takeover

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export Site Takeovers	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/sitetakeover/export	See Table A-1
Import Site Takeovers	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/sitetakeover/import	See Table A-3

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Export or Import Site Takeover

Table 2-61 Response Body Parameters for Import Request

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string	O	Specifies the current timestamp
errors:message	string	O	Specifies the error message.
errors:name	string	O	Specifies the name of the error.
exportData	array	M	Exported Site Takeover. For more information, see Table 2-38.
key	string	O	Indicates the ID of Site Takeover
sourceVersion	string	O	System version of product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import and Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
         "name": "site1",
        "targetSiteId": "siteid12345"
    }
```

2.14 NF Profile

Table 2-62 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create the NF Profile	POST	/oc-cnpolicy-configuration/v1/services/common/producer-nfprofile/{NFType}	See Table A-3

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Table 2-62 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Update the NF Profile	PUT	/oc-cnpolicy-configuration/v1/services/common/producer-nfprofile/{NFType}/{nfInstanceID}	See Table A-2
Delete the NF Profile	DELETE	/oc-cnpolicy-configuration/v1/services/common/producer-nfprofile/{NFType}/{nfInstanceID}	See Table A-4
Get All nfInstanceIds	GET	/oc-cnpolicy-configuration/v1/services/common/producer-nfinstanceids/{NFType}	See Table A-1
Get a NF Profile	GET	/oc-cnpolicy-configuration/v1/services/common/producer-nfprofile/{NFType}/{nfInstanceID}	See Table A-1

Table 2-63 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
nfInstanceId	NfInstanceId	M	Unique identity of the NF Instance.
nfType	NFType	M	Type of Network Function
nfStatus	NFStatus	M	Status of the NF Instance
heartBeatTimer	Integer	C	Time in seconds expected between two consecutive heartbeat messages from an NF Instance to the NRF.
plmnList	array(PlmnId)	C	PLMN(s) of the Network Function
sNssais	array(Snssai)	O	S-NSSAIs of the Network Function.
perPlmnSnssaiList	array(PlmnSnssai)	O	List of S-NSSAIs supported by the Network Function for each PLMN.
nsiList	array(string)	O	NSI identities of the Network Function.
fqdn	Fqdn	C	FQDN of the Network Function
interPlmnFqdn	Fqdn	C	Specifies the FQDN that is used for inter-PLMN routing, if the NF needs to be discoverable by other NFs in a different PLMN.
ipv4Addresses	array(Ipv4Addr)	C	IPv4 address(es) of the Network Function

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Table 2-63 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
ipv6Addresses	rray(Ipv6Addr)	C	IPv6 address(es) of the Network Function
allowedPlmns	array(PlmnId)	O	PLMNs allowed to access the NF instance.
allowedNfTypes	array(NFType)	O	Type of the NFs allowed to access the NF instance.
allowedNfDomains	array(string)	O	Pattern representing the NF domain names allowed to access the NF instance. If not provided, any NF domain is allowed to access the NF.
allowedNssais	array(Snssai)	O	S-NSSAI of the allowed slices to access the NF instance.
priority	integer	O	Priority (relative to other NFs of the same type) in the range of 0-65535, to be used for NF selection; lower values indicate a higher priority.
capacity	integer	O	Static capacity information in the range of 0-65535, expressed as a weight relative to other NF instances of the same type.
load	integer	O	Dynamic load information, ranged from 0 to 100, indicates the current load percentage of the NF.
locality	string	O	Operator defined information about the location of the NF instance (e.g. geographic location, data center)
udrInfo	UdrInfo	O	Specific data for the UDR (ranges of SUPI, group ID …)
groupId	NfGroupId	O	Identity of the UDM group that is served by the UDM instance. If not provided, the UDM instance does not pertain to any UDM group.
supiRanges	array(SupiRange)	O	List of ranges of SUPIs whose profile data is available in the UDM instance.
gpsiRanges	array(IdentityRan ge)	O	List of ranges of GPSIs whose profile data is available in the UDM instance.
externalGroupIdentityfiersRanges	array(IdentityRan ge)	O	List of ranges of external groups whose profile data is available in the UDM instance
supportedDataSets	array(DataSetId)	O	List of supported data sets in the UDR instance. If not provided, the UDR supports all data sets.
bsfInfo	BsfInfo	O	Specific data for the BSF
ipv4AddressRanges	array(Ipv4Addres sRange)	O	List of ranges of IPv4 addresses handled by BSF. If not provided, the BSF can serve any IPv4 address.
dnnList	array(Dnn)	O	List of DNNs handled by the BSF If not provided, the BSF can serve any DNN.
ipDomainList	array(string)	O	List of IPv4 address domains.
ipv6PrefixRanges	array(Ipv6PrefixR ange)	O	List of ranges of IPv6 prefixes handled by the BSF. If not provided, the BSF can serve any IPv6 prefix.
chfInfo	ChfInfo	O	specific data for the CHF.
gpsiRangeList	array(IdentityRan ge)	O	List of ranges of GPSI that can be served by the CHF instance. If not provided, the CHF can serve any GPSI.

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Table 2-63 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
customInfo	Object	O	Specific data for custom Network Functions
nfProfileChangesSupportInd	boolean	O	NF Profile Changes Support Indicator. This parameter indicates if the NF Service Consumer supports receiving NF Profile Changes in the response or not.
nfProfileChangesInd	boolean	O	NF Profile Changes Indicator. This parameter indicates if the NF Profile contains NF Profile changes or the complete NF Profile.

Sample request body:

```
{
  "nfInstanceId": "3fa85f64-5717-4562-b3fc-2c963f66afa",
  "nfType": "BSF",
  "nfStatus": "REGISTERED",
  "heartBeatTimer": 0,
  "plmnList": [
    {
      "mcc": "string",
      "mnc": "string"
    }
  ],
  "sNssais": [
    {
      "sst": 0,
      "sd": "string"
    }
  ],
  "perPlmnSnssaiList": [
    {
      "plmnId": {
        "mcc": "string",
        "mnc": "string"
      },
      "sNssaiList": [
        {
          "sst": 0,
          "sd": "string"
        }
      ]
    }
  ],
  "nsiList": [
    "string"
  ],
  "fqdn": "string",
  "interPlmnFqdn": "string",
```


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```
"ipv4Addresses": [
  "string"
],
"ipv6Addresses": [
  "string"
],
"allowedPlmns": [
  {
    "mcc": "string",
    "mnc": "string"
  }
],
"allowedNfTypes": [
  "string"
],
"allowedNfDomains": [
  "string"
],
"allowedNssais": [
  {
    "sst": 0,
    "sd": "string"
  }
],
"priority": 0,
"capacity": 0,
"load": 0,
"locality": "string",
"udrInfo": {
  "groupId": "string",
  "supiRanges": [
    {
      "start": "string",
      "end": "string",
      "pattern": "string"
    }
  ],
  "gpsiRanges": [
    {
      "start": "string",
      "end": "string",
      "pattern": "string"
    }
  ],
  "externalGroupIdentityfiersRanges": [
    {
      "start": "string",
      "end": "string",
      "pattern": "string"
    }
  ],
  "supportedDataSets": [
    "APPLICATION"
  ]
},
"bsfInfo": {
```


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```
    "ipv4AddressRanges": [
      {
        "start": "string",
        "end": "string"
      }
    ],
    "dnnList": [
      "string"
    ],
    "ipDomainList": [
      "string"
    ],
    "ipv6PrefixRanges": [
      {
        "start": "string",
        "end": "string"
      }
    ]
  },
  "chfInfo": {
    "supiRangeList": [
      {
        "start": "string",
        "end": "string",
        "pattern": "string"
      }
    ],
    "gpsiRangeList": [
      {
        "start": "string",
        "end": "string",
        "pattern": "string"
      }
    ]
  },
  "customInfo": {},
  "recoveryTime": "string",
  "nfServicePersistence": true,
  "nfServices": [
    {
      "serviceInstanceId": "string",
      "serviceName": "string",
      "versions": [
        {
          "apiVersionInUri": "string",
          "apiFullVersion": "string",
          "expiry": "string"
        }
      ],
      "scheme": "http",
      "nfServiceStatus": "REGISTERED",
      "fqdn": "string",
      "ipEndPoints": [
        {
          "ipv4Address": "string",
          "ipv6Address": "string",
```


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```
          "transport": "TCP",
          "port": 0
        }
      ],
      "apiPrefix": "string",
      "allowedNfTypes": [
        "string"
      ],
      "priority": 0,
      "capacity": 0,
      "load": 0
    }
  ],
  "nfProfileChangesSupportInd": true,
  "nfProfileChangesInd": true
}
```


Sample response body:


```
{
  "nfInstanceId": "3fa85f64-5717-4562-b3fc-2c963f66afa9",
  "nfType": "BSF",
  "nfStatus": "REGISTERED",
  "heartBeatTimer": 0,
  "plmnList": [
    {
      "mcc": "string",
      "mnc": "string"
    }
  ],
  "sNssais": [
    {
      "sst": 0,
      "sd": "string"
    }
  ],
  "perPlmnSnssaiList": [
    {
      "plmnId": {
        "mcc": "string",
        "mnc": "string"
      },
      "sNssaiList": [
        {
          "sst": 0,
          "sd": "string"
        }
      ]
    }
  ],
  "nsiList": [
    "string"
  ],
  "fqdn": "string",
  "interPlmnFqdn": "string",
```


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```
"ipv4Addresses": [
  "string"
],
"ipv6Addresses": [
  "string"
],
"allowedPlmns": [
  {
    "mcc": "string",
    "mnc": "string"
  }
],
"allowedNfTypes": [
  "string"
],
"allowedNfDomains": [
  "string"
],
"allowedNssais": [
  {
    "sst": 0,
    "sd": "string"
  }
],
"priority": 0,
"capacity": 0,
"load": 0,
"locality": "string",
"udrInfo": {
  "groupId": "string",
  "supiRanges": [
    {
      "start": "string",
      "end": "string",
      "pattern": "string"
    }
  ],
  "gpsiRanges": [
    {
      "start": "string",
      "end": "string",
      "pattern": "string"
    }
  ],
  "externalGroupIdentityfiersRanges": [
    {
      "start": "string",
      "end": "string",
      "pattern": "string"
    }
  ],
  "supportedDataSets": [
    "APPLICATION"
  ]
},
"bsfInfo": {
```


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```
    "ipv4AddressRanges": [
      {
        "start": "string",
        "end": "string"
      }
    ],
    "dnnList": [
      "string"
    ],
    "ipDomainList": [
      "string"
    ],
    "ipv6PrefixRanges": [
      {
        "start": "string",
        "end": "string"
      }
    ]
  },
  "chfInfo": {
    "supiRangeList": [
      {
        "start": "string",
        "end": "string",
        "pattern": "string"
      }
    ],
    "gpsiRangeList": [
      {
        "start": "string",
        "end": "string",
        "pattern": "string"
      }
    ]
  },
  "customInfo": {},
  "recoveryTime": "string",
  "nfServicePersistence": true,
  "nfServices": [
    {
      "serviceInstanceId": "string",
      "serviceName": "string",
      "versions": [
        {
          "apiVersionInUri": "string",
          "apiFullVersion": "string",
          "expiry": "string"
        }
      ],
      "scheme": "http",
      "nfServiceStatus": "REGISTERED",
      "fqdn": "string",
      "ipEndPoints": [
        {
          "ipv4Address": "string",
          "ipv6Address": "string",
```


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```
          "transport": "TCP",
          "port": 0
        }
      ],
      "apiPrefix": "string",
      "allowedNfTypes": [
        "string"
      ],
      "priority": 0,
      "capacity": 0,
      "load": 0
    }
  ],
  "nfProfileChangesSupportInd": true,
  "nfProfileChangesInd": true
}
```

2.15 Session Management Service

Table 2-64 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get Session Management Service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfsm	See Table A-1
Update Session Management Service	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfsm	See Table A-2
Export Session Management Service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfsm/export	See Table A-1
Import Session Management Service	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfsm/import	See Table A-3

Get and Update Session Management Service

Table 2-65 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)	Description
system	SystemConfiguration	O	
user	SmUserConfiguration	O	
policy	Policy	O	
policyControlRequestTrigger	PolicyControlRequestTrigger	O	
binding	SmBindingConfiguration	O	
qos	QOSConfiguration	O	
rule	RuleConfiguration		

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Table 2-65 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)	Description
charging	ChargingConfiguration	O	
trafficControl	TrafficControlConfiguration	O	
imsEmergencySession	IMSEmergencySessionConfiguration	O	
audit	AuditConfiguration	O	
extendedAudit	AuditExtendedConfiguration	O	
pendingTransaction	PendingTransactionConfiguration	O	
nwdaf	SmNwdafConfiguration	O	
advancedSettings	AdvancedSettings	M	

Table 2-66 SystemConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
componentTracingEnabled	boolean	O	Determines if component tracing is enabled. Component tracing is used to evaluate system process latency in detail level. Default Value: false
pcf_fqdn	string	O	This is the PCF FQDN used by the PCF to register Binding data to BSF. AF may use this FQDN to communicate with PCF on N5 reference point. Default Value: pcf-smservice.pcf
pcf_diamrealm	string	O	This is the PCF diameter realm used by the PCF to register Binding data to BSF. Diameter based AF may use this diameter realm to communicate with PCF on Rx reference point. Default Value: pcf-smservice.svc
pcf_diamidentity	string	O	This is the PCF diameter identity used by the PCF to register Binding data to BSF. Diameter based AF may use this diameter identity to communicate with PCF on Rx reference point. Default Value: pcf-smservice.svc
snssai	string	O	This is the PCF SNSSAI used by the PCF to register Binding data to BSF. AF/BSF may use this SNSSAI to discover proper PCF. **Format**: sst,sd. **Default Value**: 0-000000

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Table 2-66 (Cont.) SystemConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
metricsEnabled	boolean	O	This determines if system metrics is enabled. This will take priority on global metrics config. Default Value: true
smfNotificationRetryProfile	string	O	Defines the retry profile configuration for session management.
overrideSupportedFeatures	string, ENUM	O	Specifies the list of supported features that can be configured to override system embedded values. For example, SessionRuleErrorHandling, NetLoc, and so on.
enableCustomJson	boolean	O	Specifies either to enable or disable customized JSON file reading.
nfCommProfile	string	O	Specifies the NF communication profile used by SMF.
dataCompressionScheme	string	O	

Table 2-67 SmUserConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
validateUser	boolean	O	Determines if user validate is enabled. HTTP 400 with cause **USER_UNKNOWN** returns, if this is enabled and user not found in UDR. **Default Value**: FALSE
queryUser	boolean	O	Determines if user query from UDR is enabled. **Default Value**: TRUE
queryUserOnUpdate	boolean	O	Determines if user query from UDR on update is enabled. **Default Value**: FALSE
queryUserOnDelete	boolean	O	Determines if user query from UDR on delete is enabled. **Default Value**: FALSE
queryUserOnReauth	boolean	O	Determines if user query from UDR on reuath is enabled. **Default Value**: FALSE
subsToNotifyEnabled	boolean	O	Determines if subscribe to nofity about subscriber data change is enabled. Default Value: true
ignoreSubsNotificationCheck	boolean	O	Ignore subscriber's notification check. Default Value: false **Note**: Currently, this field is not used by the Policy application.
enableChfQueryAll	boolean	O	Determines whether to enable on-demand retrieval of policy counters for a subscriber from OCS synchronously.

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Table 2-67 (Cont.) SmUserConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enableAsyncChfQuery	boolean	O	Determines whether to enable on-demand retrieval of policy counters for a subscriber from OCS asynchronously.
enableOcsQueryAll	boolean	O	Determines whether to fetch policy counters for a subscriber from OCS.
forceLookupOcsDataOnSmUpdate	boolean	O	Determines whether to perform force lookup for OCS Data. Default Value: false
enableSmDataQuery	boolean	O	
enableOsdQuery	boolean		Determines whether to perform on demand lookup for Policy Counters to be fetched from OCS. Default Value: false
includeSnssaiInUserQuery	boolean	O	Determines if Snssai is included for SmPolicyData for PCF query and subscribe to UDR for Notification.
includeDnnInUserQuery	boolean	O	Determines if Dnn is included for SmPolicyData for PCF query and subscribe to UDR for Notification.
disableSubscriberVariables	boolean	O	Determines if subscriber variables are stored or not in the PCF database. Default Value: false
ldapData.enable	boolean	O	PCF fetches user profile from LDAP through PDS. Default Value: false
operatorSpecificData.subscribeToNotify	boolean	O	PCF fetches OperatorSpecificData (imported using Custom Schema) from UDR.

Table 2-68 Policy

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
evaluateEnabled	boolean	O	This determines if policy evaluation is enabled or not. **Default Value**: TRUE

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Table 2-69 PolicyControlRequestTrigger

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
defaultPolicyControlRequestTriggers	defaultPolicyControlRequestTriggers [string, ENUM]	O	Default Policy Control Request Trigger(s) to install on PDU session at SM Policy association establishment. This is a comma split string. Example: [PLMN_CH, RES_MO_RE, AC_TY_CH, UE_IP_CH, UE_MAC_CH, AN_CH_COR, US_RE, APP_STA, APP_STO, AN_INFO, CM_SES_FAIL, PS_DA_OFF, DEF_QOS_CH, SE_AMBR_CH, QOS_NOTIF, NO_CREDIT, PRA_CH, SAREA_CH, SCNN_CH, RE_TIMEOUT, RES_RELEASE, SUCC_RES_ALLO, RAT_TY_CH, REF_QOS_IND_CH, SCELL_CH]

Table 2-70 SmBindingConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
bsfRetryProfileForInitMsgs	string	O	Retry Profile to be used when PCF fails to send a create message to a producer node.
bindingOperationEnabled	boolean	O	This determines if binding operation (register and deregister) to the BSF is enabled. **Default Value**: TRUE
useLocalConfiguredBsfAlways	boolean	O	Whether to use local configured BSF without Always discovering. **Default Value**: FALSE
useLocalConfiguredBsfWhenNotDiscovered	boolean	O	Whether to use local configured (if having) BSF when not discovered or discover failed.**Default Value**: FALSE
useHttp2	boolean	O	Determines if using http/2 to communicate with BSF. Otherwise use http/1.1. **Default Value**: TRUE
abortOnBindingError	boolean	O	Determines if PCF (SM service) should abort terminate session when binding error is received.

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Table 2-70 (Cont.) SmBindingConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
bsfRetryProfileForSubsqtMsgs	string	O	Retry Profile to be used when PCF fails to send an in-session message to a producer node. **Note:** • If both “Retry Profile for Initial Messages” and “Retry Profile for Subsequent Messages” are not configured (default case) no retry is attempted. • If both “Retry Profile for Initial Messages” and “Retry Profile for Subsequent Messages” are configured, retries is attempted accordingly. • If “Retry Profile for Initial Messages” is configured but “Retry Profile for Subsequent Messages” is not configured then the profile for initial messages is used for subsequent messages. (to be backward compatible with release 1.8.x) • If “Retry Profile for Initial Messages” is not configured but “Retry Profile for Subsequent Messages” is configured then retry is not attempted for initial messages but is attempted for subsequent messages.
bsfRecreateAttemptState	string	O	Specifies to either enable or disable the BSF recreate attempts functionality. The possible values: **Enabled** **Disable** **Disable and Cleanup**
bsfReattemptProfile	string	O	Specifies the reattempt profile to be used for binding recreate attempts.
bsfNfCommProfile	string	O	Specifies the NF communication profile used by BSF.

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Table 2-70 (Cont.) SmBindingConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
defaultBindingOperationMode	ENUM	O	Allows users to configure binding operation mode as synchronous or asynchronous. **Note:** The mode chosen during the CREATE request remains same during UPDATE and TERMINATE operations for the same SM session. The default binding operation mode is set to synchronous. **Note:** To ensure backward compatibility, if this attribute is not available in the database, the value is set to "Synchronous" After performing necessary configurations, user may use the policy action - **Set Binding Registration Mode to** to update configurations for specific policies. For more information, see *Oracle Communications Cloud Native Core, Converged Policy Design Guide*.

Table 2-71 QOSConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
defaultQos5qi	string	O	This is the 5Qi of default Qos which will be applied if no default Qos is requested by UE. **Default Value**: 9
defaultQosArpPreemptCap	ENUM	O	This is the ARP PreemptionCapability of default Qos which will be applied if no default Qos is requested by UE. **Default Value**: MAY_PREEMPT
defaultQosArpPreemptVuln	ENUM	O	This is the ARP PreemptionVulnerability of default Qos which will be applied if no default Qos is requested by UE. **Default Value**: NOT_PREEMPTABLE
defaultQosArpPriorityLevel	string	O	This is the ARP Priority Level of default Qos which will be applied if no default Qos is requested by UE. **Default Value**: 1
installDefQosIfNotRequested	boolean	O	This determines whether to install default Qos to the PDU session if UE not requested **Default Value**: TRUE

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Table 2-71 (Cont.) QOSConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
qosDataIdPrefix	string	O	This is the prefix of qos data id used by PCF to generate qos data id. For example, prefix is "qosdata_", the generated qos data id is qosdata_0, chgdata_1, etc. **Default Value**: qosdata_
updateDefaultPcfRuleWithAuthDefQos	boolean	O	This determines whether to update Qos of default PccRule with the authDefQos of session rule. **Default Value**: TRUE

Table 2-72 RuleConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
appRulePrecedenceMax	string	O	This value defines the maximum value for precedence of a PCC rule as authorized by the establishment of an application flow by the AF. If multiple rules are applied to the same packet flow or UE resource (i.e., overlapping rules) a rule with lower precedence value takes the priority over a rule with higher precedence value. The value of -1 is used to not set the precedence of a rule (NOT RECOMMENDED). **Default Value**: 899
appRulePrecedenceMin	string	O	This value defines the minimum value for precedence of a PCC rule as authorized by the establishment of an application flow by the AF. If multiple rules are applied to the same packet flow or UE resource (i.e., overlapping rules) a rule with lower precedence value takes the priority over a rule with higher precedence value. The value of -1 is used to not set the precedence of a rule (NOT RECOMMENDED). **Default Value**: 400
defaultPccRule5qi	string	O	This is the 5Qi of default pcc rule. **Default Value**: 9
defaultQosArpPriorityLevel	string	O	This is the ARP Priority Level of qos of default pcc rule The range is 1 to 15. Values are ordered in decreasing order of priority, for example, with 1 as the highest priority and 15 as the lowest priority. **Default Value**: 15

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Table 2-72 (Cont.) RuleConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
defaultPccRuleArpPreemptCap	ENUM	O	This is the ARP PreemptionCapability of qos of default PCC rule. • NOT_PREEMPT • MAY_PREEMPT **Default Value**: NOT_PREEMPT
defaultPccRuleArpPreemptVuln	ENUM	O	This is the ARP PreemptionVulnerability of qos of default pcc rule. • PREEMPTABLE • NOT_PREEMPTABLE **Default Value**: PREEMPTABLE
defaultPccRuleArpPriorityLevel	string example: 15	O	This is the ARP Priority Level of qos of default pcc rule The range is 1 to 15. Values are ordered in decreasing order of priority, for example, with 1 as the highest priority and 15 as the lowest priority. **Default Value**: 15
defaultPccRulePrecedence	string	O	This is the precedence of default pcc rule. **Default Value**: 3000
installDefaultPccRule	ENUM	O	This determine whether and how to install default pcc rule for a PDU session • ALWAYS • IF_NO_PROVISIONED_RULE: Only if no other provisioned rule is configured • IF_NO_RULE: Only if no other rule (predefined or provisioned) is configured/installed • NEVER **Default Value**: IF_NO_RULE
ruleIdPrefix	string	O	This is the prefix of rule id of the pcc rule or session rule auto generated by PCF. for example, prefix is "0_", the generated rule id is 0_0, 0_1, etc. **Default Value**: 0_
switchFlowInToOutEnabled	boolean	O	This determines whether to switch "in" to "out" in flow description. The src and desc will be switched as well. For example, if enabled, "permit in ip from 2800:a00:cc01:c056:1c00:de10:c481:f193/128 to 2800:a00:800:7::1:3b/128 36004" will be changed to "permit out ip from 2800:a00:800:7::1:3b/128 36004 to 2800:a00:cc01:c056:1c00:de10:c481:f193/128" **Default Value**: FALSE
packetFilterUsageToTrueForPreliminaryServiceInfo	string	O	
ruleConflictsStrategy	string	O	

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Table 2-72 (Cont.) RuleConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
setPacketFilterUsageToTrueForPreliminaryServiceInfo	boolean	O	
defaultPolicyControlRequestTriggers	string, ENUM	O	This is the default Policy Control Request Trigger(s) to install on PDU session at SM Policy association establishment. This is a comma split string.
defaultPccRuleRequestedRuleData	string, ENUM	O	

Table 2-73 ChargingConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
chgDataIdPrefix	string	O	This is the prefix of chg data id used by PCF to generate chg data id. For example, prefix is "chgdata_", the generated chg data id is chgdata_0, chgdata_1, etc. **Default Value**: chgdata_
offline	boolean	O	
online	boolean	O	
primaryChfAddress	string	O	Specifies the primary CHF address.
primaryChfInstanceId	string	O	Specifies the Instance ID of the primary CHF.
primaryChfSetId	string	O	Specifies the Set ID of the primary CHF.
secondaryChfAddress	string	O	Specifies the secondary CHF address.
secondaryChfInstanceId	string	O	Specifies the Instance ID of the secondary CHF.
secondaryChfSetId	string	O	Specifies the Set ID of the secondary CHF.
useSubscriberDefChgMethod	boolean	O	

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Table 2-74 TrafficControlConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
tcDataIdPrefix	string	O	This is the prefix of traffic control data id used by PCF to generate tc data id. For example, prefix is "tcdata_", the generated tc data id is tcdata_0, tcdata_1, etc. **Default Value**: tcdata_

Table 2-75 IMSEmergencySessionConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
arpPreemptCap	ENUM	M	
arpPreemptVuln	boolean	M	
arpPriorityLevel	integer ($int32)	O	
emergencyDNNs	string Any number of values are permitted for Emergency DNNs	O	

Table 2-76 AuditConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enable	boolean	O	Determines whether to send registration request to Audit service or not. Default Value: true
frequency: Enter a range in minutes from [1-1440]	integer	M	Default Value: 330
maxTtl: Enter a range in minutes from [10-20160]	integer	M	Defines the maximum age of a SM policy association after which a record is purged from PCF SM database without sending further queries to SM. Default Value: 2880
notificationRate: Enter a range in seconds from [20-700]	integer	M	Defines the number of stale records which Audit service will notify to Session Management (SM) service in one second. Default Value: 50
ttl: Enter a range in minutes from [5-10080]	integer	M	Default Value : 1440

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Table 2-77 AuditExtendedConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
pendingOperation	AuditPendingOperation	M	
smPolicyAssociation	AuditSmPolicyAssociation	M	

Table 2-78 AuditPendingOperation

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
notificationRate	integer	O	
ttl	integer	O	
maxTtl	integer	O	
frequency	integer	O	
enableAlternateSite	boolean	O	
alternateSiteId	String	O	

Table 2-79 AuditSmPolicyAssociation

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enable	boolean	O	
notificationRate	integer	O	
ttl	integer	O	
maxTtl	integer	O	Min Value: 0 Max Value: 255
minAuditAttempts	integer	M	
frequency	integer	O	

Table 2-80 PendingTransactionConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)	Description
enter a range in milliseconds from [0-10000]	integer	M	Indicates the time between two consecutive retry UpdateNotify messages when UpdateNotify message is held back from being sent to SMF.
enter a range from [0-5]	integer	M	
errorUpdateNotifyHandlingApp	string	O	Indicates if an Rx [App] initiated UpdateNotify message should discard or retried when SMF respondes with an error 400 BAD REQUEST and cause being PENDING_TRANSACTION.

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Table 2-80 (Cont.) PendingTransactionConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)	Description
updateNotifyHandling	string	O	Indicates if UpdateNotify message should be discarded or retried when PCF SM service is busy processing SM Update message by holding sessionId and/or subscriberId based on concurrency lock(s).

Table 2-81 AdvancedSettings

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
key	string	O	Specifies the key name.
value	string	O	Specifies the value of the key.

For more information on the Advanced Settings "Keys" and "Values", see "**Session Management Service**" section of "Configuring Policy Using CNC Console" in *Oracle Communications Cloud Native Core, Converged Policy User Guide*.

Sample Request body structure for GET and PUT operations:

```
{
  "system": {
    "componentTracingEnabled": true,
    "pcf_fqdn": "pcf-smservice.oracle.com",
    "pcf_diamrealm": "oracle.com",
    "pcf_diamidentity": "pcf-smservice.oracle.com",
    "snssai": "0,000000",
    "metricsEnabled": true,
    "smfNotificationRetryProfile": "string",
    "overrideSupportedFeatures": [
      "TSC"
    ],
    "enableCustomJson": true,
    "nfCommProfile": "string",
    "dataCompressionScheme": "string"
  },
  "user": {
    "validateUser": true,
    "queryUser": true,
    "queryUserOnUpdate": true,
    "queryUserOnDelete": true,
    "queryUserOnReauth": true,
    "subsToNotifyEnabled": true,
    "ignoreSubsNotificationCheck": true,
    "enableChfQueryAll": true,
    "enableAsyncChfQuery": true,
    "enableOcsQueryAll": true,
```


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```
    "enableAsyncOcsQuery": true,
    "forceLookupOcsDataOnSmUpdate": true,
    "enableSmDataQuery": true,
    "enableOsdQuery": true,
    "includeSnssaiInUserQuery": true,
    "includeDnnInUserQuery": true,
    "disableSubscriberVariables": true,
    "ldapData.enable": true,
    "operatorSpecificData.subscribeToNotify": true
  },
  "policy": {
    "evaluateEnabled": true
  },
  "policyControlRequestTrigger": {
    "defaultPolicyControlRequestTriggers": [
      "PLMN_CH"
    ]
  },
  "binding": {
    "bsfRetryProfileForInitMsgs": "string",
    "bindingOperationEnabled": true,
    "useLocalConfiguredBsfAlways": true,
    "useLocalConfiguredBsfWhenNotDiscovered": true,
    "useHttp2": true,
    "abortOnBindingError": true,
    "bsfRetryProfileForSubsqtMsgs": "string",
    "bsfNfCommProfile": "string",
    "bsfRecreateAttemptState": "string",
    "bsfReattemptProfile": "string",
    "defaultBindingOperationMode": "SYNCHRONOUS"
  },
  "qos": {
    "qosDataIdPrefix": "qosdata_",
    "updateDefaultPcfRuleWithAuthDefQos": true,
    "installDefQosIfNotRequested": true,
    "defaultQos5qi": "9",
    "defaultQosArpPreemptCap": "MAY_PREEMPT",
    "defaultQosArpPreemptVuln": "NOT_PREEMPTABLE",
    "defaultQosArpPriorityLevel": "1"
  },
  "rule": {
    "packetFilterUsageToTrueForPreliminaryServiceInfo": "string",
    "defaultPolicyControlRequestTriggers": [
      "SUCC_RES_ALLO"
    ],
    "installDefaultPccRule": "ALWAYS",
    "defaultPccRuleProfile": "string",
    "ruleIdPrefix": "0_",
    "defaultPccRule5qi": "9",
    "defaultPccRulePrecedence": "3000",
    "defaultPccRuleArpPreemptCap": "NOT_PREEMPT",
    "defaultPccRuleRequestedRuleData": [
      "SUCC_RES_ALLO"
    ],
    "defaultPccRuleArpPreemptVuln": "PREEMPTABLE",
    "ruleConflictsStrategy": "INSTALL",
```


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```
    "appRulePrecedenceMin": "400",
    "appRulePrecedenceMax": "899",
    "defaultPccRuleArpPriorityLevel": "15",
    "switchFlowInToOutEnabled": true,
    "setPacketFilterUsageToTrueForPreliminaryServiceInfo": true
  },
  "charging": {
    "chgDataIdPrefix": "chgdata_",
    "primaryChfAddress": "string",
    "primaryChfInstanceId": "string",
    "primaryChfSetId": "string",
    "secondaryChfAddress": "string",
    "secondaryChfInstanceId": "string",
    "secondaryChfSetId": "string",
    "online": true,
    "offline": true,
    "useSubscriberDefChgMethod": true
  },
  "trafficControl": {
    "tcDataIdPrefix": "tcdata_"
  },
  "imsEmergencySession": {
    "Any number of values are permitted for Emergency DNNs": [
      "string"
    ],
    "arpPriorityLevel": 15,
    "arpPreemptCap": "NOT_PREEMPT",
    "arpPreemptVuln": "NOT_PREEMPTABLE"
  },
  "audit": {
    "enable": true,
    "enter a range in sec from [20-700]": 50,
    "enter a range in minutes from [1-10080]": 1440,
    "enter a range in minutes from [1-20160]": 2880,
    "enter a range in minutes from [1-1440]": 330
  },
  "extendedAudit": {
    "pendingOperation": {
      "notificationRate": 0,
      "ttl": 0,
      "maxTtl": 0,
      "frequency": 0,
      "enableAlternateSite": true,
      "alternateSiteId": "string"
    },
    "smPolicyAssociation": {
      "enable": true,
      "notificationRate": 0,
      "ttl": 0,
      "maxTtl": 0,
      "minAuditAttempts": 5,
      "frequency": 0
    }
  },
  "pendingTransaction": {
    "enter a range in milliseconds from [0-10000]": 1000,
```


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```
    "enter a range from [0-5]": 2,
    "errorUpdateNotifyHandlingApp": "string",
    "updateNotifyHandling": "string"
  },
  "nwdaf": {
    "enableNwdafData": true
  },
  "advancedSettings": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

Export/Import Session Management Service

Table 2-82 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors:message	string		
errors:name	string		
exportData	array		Exported list of session management service. For more information, see Get and Update Session Management Service.
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": {
    "advancedSettings": [
      {
        "key": "string",
        "value": "string"
      }
    ],
    "audit": {
```


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```
    "enable": true,
    "frequency": 330,
    "maxTtl": 2880,
    "notificationRate": 50,
    "ttl": 1440
  },
  "binding": {
    "abortOnBindingError": true,
    "bindingOperationEnabled": true,
    "bsfNfCommProfile": "string",
    "bsfRetryProfileForInitMsgs": "string",
    "bsfRetryProfileForSubsqtMsgs": "string",
    "defaultBindingOperationMode": "SYNCHRONOUS",
    "useHttp2": true,
    "useLocalConfiguredBsfAlways": true,
    "useLocalConfiguredBsfWhenNotDiscovered": true
  },
  "charging": {
    "chgDataIdPrefix": "chgdata_",
    "offline": true,
    "online": true,
    "primaryChfAddress": "string",
    "primaryChfInstanceId": "string",
    "primaryChfSetId": "string",
    "secondaryChfAddress": "string",
    "secondaryChfInstanceId": "string",
    "secondaryChfSetId": "string",
    "useSubscriberDefChgMethod": true
  },
  "imsEmergencySession": {
    "arpPreemptCap": "MAY_PREEMPT",
    "arpPreemptVuln": "NOT_PREEMPTABLE",
    "arpPriorityLevel": 0,
    "emergencyDNNs": [
      "string"
    ]
  },
  "pendingTransaction": {
    "updateNotifyRetryBackoff": 1000,
    "updateNotifyRetryCount": 2
  },
  "policy": {
    "evaluateEnabled": true
  },
  "policyControlRequestTrigger": {
    "defaultPolicyControlRequestTriggers": [
      "AC_TY_CH"
    ]
  },
  "qos": {
    "defaultQos5qi": 9,
    "defaultQosArpPreemptCap": "MAY_PREEMPT",
    "defaultQosArpPreemptVuln": "NOT_PREEMPTABLE",
    "defaultQosArpPriorityLevel": 1,
    "installDefQosIfNotRequested": true,
    "qosDataIdPrefix": "qosdata_",
```


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```
    "updateDefaultPcfRuleWithAuthDefQos": true
  },
  "rule": {
    "appRulePrecedenceMax": 899,
    "appRulePrecedenceMin": 400,
    "defaultPccRule5qi": 9,
    "defaultPccRuleArpPreemptCap": "NOT_PREEMPT",
    "defaultPccRuleArpPreemptVuln": "PREEMPTABLE",
    "defaultPccRuleArpPriorityLevel": 15,
    "defaultPccRulePrecedence": 3000,
    "defaultPccRuleProfile": "string",
    "installDefaultPccRule": "ALWAYS",
    "packetFilterUsageToTrueForPreliminaryServiceInfo": true,
    "ruleConflictsStrategy": "INSTALL",
    "ruleIdPrefix": "0_",
    "setPacketFilterUsageToTrueForPreliminaryServiceInfo": true,
    "switchFlowInToOutEnabled": true
  },
  "system": {
    "componentTracingEnabled": true,
    "enableCustomJson": true,
    "metricsEnabled": true,
    "nfCommProfile": "string",
    "overrideSupportedFeatures": [
      "3GPP-PS-Data-Off"
    ],
    "pcf_diamidentity": "pcf-smservice.oracle.com",
    "pcf_diamrealm": "oracle.com",
    "pcf_fqdn": "pcf-smservice.oracle.com",
    "smfNotificationRetryProfile": "string",
    "snssai": "0,000000"
  },
  "trafficControl": {
    "tcDataIdPrefix": "tcdata_"
  },
  "user": {
    "disableSubscriberVariables": true,
    "enableAsyncChfQuery": true,
    "enableAsyncOcsQuery": true,
    "enableChfQueryAll": true,
    "enableOcsQueryAll": true,
    "enableOsdQuery": true,
    "enableSmDataQuery": true,
    "ignoreSubsNotificationCheck": true,
    "includeDnnInUserQuery": true,
    "includeSnssaiInUserQuery": true,
    "ldapData.enable": true,
    "operatorSpecificData.subscribeToNotify": true,
    "queryUser": true,
    "queryUserOnDelete": true,
    "queryUserOnReauth": true,
    "queryUserOnUpdate": true,
    "subsToNotifyEnabled": true,
    "validateUser": true
  }
},
```


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```
  "sourceVersion": "string",
  "topic": "string"
}
```

2.16 Session Rule

Table 2-83 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Session Rule	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/sessionrules	See Table A-3
Export Session Rules	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/sessionrules/export	See Table A-1
Import Session Rule	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/sessionrules/import	See Table A-3
Get Session Rule	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/sessionrules/{sessionRuleName}	See Table A-1
Update Session Rule	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/sessionrules/{sessionRuleName}	See Table A-2
Delete Session Rule	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/sessionrules/{sessionRuleName}	See Table A-4

Get, Create, and Update Session Rules

Table 2-84 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
authDefQosId	string	O	Authorized default QoS information
authSessAmbr	AuthSessAmbr	O	Authorized Session-AMBR
description	string	O	Specifies the description of the Session Rule
name	string	M	Specifies the name of the Session Rule

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Table 2-84 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
refCondData	string		specifies the reference to the condition data
sessRuleId	string	M	Specifies the Session Rule ID

Table 2-85 AuthSessAmbr

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
downlink	string Enter a value starting with number and ending bps or Kbps or Mbps or Gbps or Tbps	O	AMBR for downlink
uplink	string Enter a value starting with number and ending bps or Kbps or Mbps or Gbps or Tbps	O	AMBR for uplink

Sample Request body structure for POST and PUT operations:

```
{
  "authDefQosId": "string",
  "authSessAmbr": {
    "downlink": "string",
    "uplink": "string"
  },
  "description": "string",
  "name": "string",
  "refCondData": "string",
  "sessRuleId": "string"
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "authDefQosId": "string",
  "authSessAmbr": {
    "downlink": "string",
    "uplink": "string"
  },
  "description": "string",
  "name": "string",
  "refCondData": "string",
```


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```
  "sessRuleProfileId": "string"
}
```

Delete Session Rule

Table 2-86 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
sessionRuleName	string	M	Session Rule Name

Export/Import Session Rule

Table 2-87 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors:message	string		Error message
errors:name	string		Name of the error
exportData	array		Exported list of session rules. For more information, see Get, Create, and Update Session Rules
key	string		Indicates the ID of Session Rule
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "authDefQosId": "string",
      "authSessAmbr": {
        "downlink": "string",
        "uplink": "string"
      },
      "description": "string",
```


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```
      "name": "string",
      "refCondData": "string",
      "sessRuleId": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

2.17 Session Rule Profile

Table 2-88 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Session Rule Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/sessionruleprofiles	See Table A-3
Export Session Rule Profiles	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/sessionruleprofiles/export	See Table A-1
Import Session Rule Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/sessionruleprofiles/import	See Table A-3
Get Session Rule Profile	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/sessionruleprofiles/{sessionRuleProfileName}	See Table A-1
Update Session Rule Profile	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/sessionruleprofiles/{sessionRuleProfileName}	See Table A-2
Delete Session Rule Profile	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/sessionruleprofiles/{sessionRuleProfileName}	See Table A-4

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Get, Create, and Update Session Rule Profiles

Table 2-89 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
authDefQosId	string	O	Authorized default QoS information
authSessAmbr	AuthSessAmbr	O	Authorized Session-AMBR
description	string		Specifies the description of the Session Rule Profile
name	string	M	Specifies the name of the Session Rule Profile
refCondData	stiring		
sessRuleProfileId	string	M	Specifies the Session Rule Profile ID

Table 2-90 AuthSessAmbr

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
downlink	string	O	AMBR for downlink
uplink	string	O	AMBR for uplink

Sample Request body structure for POST and PUT operations:

```
{
  "authDefQosId": "string",
  "authSessAmbr": {
    "downlink": "string",
    "uplink": "string"
  },
  "description": "string",
  "name": "string",
  "refCondData": "string",
  "sessRuleProfileId": "string"
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "authDefQosId": "string",
  "authSessAmbr": {
    "downlink": "string",
    "uplink": "string"
  },
  "description": "string",
  "name": "string",
  "refCondData": "string",
```


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```
  "sessRuleProfileId": "string"
}
```

Delete Session Rule Profile

Table 2-91 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
sessionRuleProfileName	string	M	Session Rule Profile Name

Export/Import Session Rule Profile

Table 2-92 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors:message	string		Error message
errors:name	string		Name of the error
exportData	array		Exported list of session rule profiles. For more information, see Get, Create, and Update Session Rule Profiles.
key	string		Indicates the ID of Session Rule Profile
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "authDefQosId": "string",
      "authSessAmbr": {
        "downlink": "string",
        "uplink": "string"
      },
      "description": "string",
```


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```
      "name": "string",
      "refCondData": "string",
      "sessRuleProfileId": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

2.18 QoS Information

Table 2-93 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create QoS Information	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/qosinformation	See Table A-3
Export QoS Information	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/qosinformation/export	See Table A-1
Import QoS Information	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/qosinformation/import	See Table A-3
Get QoS Information	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/qosinformation/{qosInformationName}	See Table A-1
Update QoS Information	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/qosinformation/{qosInformationName}	See Table A-2
Delete QoS Information	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/qosinformation/{qosInformationName}	See Table A-4

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Get, Create, and Update QoS Information

Table 2-94 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
5qi	string ($int32) enter a range in [0-255] number	O	Identifier for the authorized QoS parameters for the service data flow. It shall be included when the QoS data decision is initially provisioned.
arp	Arp	O	Indicates the allocation and retention priority. It shall be included when the Authorized Default QoS is initially provisioned.
averWindow	integer	O	Represents the duration over which the guaranteed and maximum bitrate shall be calculated. The allowed integer value ranges from 1 to 4095. **Default Value**: 2000
description	string	O	The description of the Qos Information.
maxDataBurstVol	integer	O	Denotes the largest amount of data that is required to be transferred within a period of 5GAN PDB. The allowed integer value ranges from 1 to 4095. **Default Value**: 2000
name	string	M	The name of the Qos Information.
priorityLevel	integer ($int32)	O	Unsigned integer indicating the 5QI Priority Level, within a range of 1 to 127.

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Table 2-95 Arp

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
preemptCap	ENUM	M	Defines whether a service data flow may get resources that were already assigned to another service data flow with a lower priority level. Possible values are: • NOT_PREEMPT : Shall not trigger pre-emption. • MAY_PREEMPT : May trigger pre-emption.
preemptVuln	ENUM	M	Defines whether a service data flow may lose the resources assigned to it in order to admit a service data flow with higher priority level. Possible values are: • NOT_PREEMPTABLE : Shall not be pre-empted. • PREEMPTABLE : May be pre-empted.
priorityLevel	integer ($int32)	M	Unsigned integer indicating the ARP Priority Level, within the range 1 to 15.

Sample Request body structure for POST and PUT operations:

```
{
  "5qi": "string",
  "arp": {
    "preemptCap": "MAY_PREEMPT",
    "preemptVuln": "NOT_PREEMPTABLE",
    "priorityLevel": 0
  },
  "averWindow": 2000,
  "description": "string",
  "maxDataBurstVol": 2000,
  "name": "string",
  "priorityLevel": "string"
}
```


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Sample Response body structure for GET, POST, and PUT operations:

```
{
  "5qi": "string",
  "arp": {
    "preemptCap": "MAY_PREEMPT",
    "preemptVuln": "NOT_PREEMPTABLE",
    "priorityLevel": 0
  },
  "averWindow": 2000,
  "description": "string",
  "maxDataBurstVol": 2000,
  "name": "string",
  "priorityLevel": "string"
}
```

Delete QoS Information

Table 2-96 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
qosInformationName	string	M	Qos Information Name

Export/Import QoS Information

Table 2-97 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string	M	Current timestamp
exportData	array	M	Exported list of QoS information. For more information, see Get, Create, and Update QoS Information .
key	string	M	Indicates the ID of QoS Information
sourceVersion	string	M	System version of product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
```


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```
    }
  ],
  "exportData": [
    {
      "5qi": "string",
      "arp": {
        "preemptCap": "MAY_PREEMPT",
        "preemptVuln": "NOT_PREEMPTABLE",
        "priorityLevel": 0
      },
      "averWindow": 2000,
      "description": "string",
      "maxDataBurstVol": 2000,
      "name": "string",
      "priorityLevel": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


2.19 QoS Data

Table 2-98 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create QoS Data	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/qosdata	See Table A-3
Export QoS Data	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/qosdata/export	See Table A-1
Import QoS Data	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/qosdata/import	See Table A-3
Get QoS Data	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/qosdata/{qosDataName}	See Table A-1
Update QoS Data	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/qosdata/{qosDataName}	See Table A-2
Delete QoS Data	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/qosdata/{qosDataName}	See Table A-4

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Get, Create, and Update QoS Data s

Table 2-99 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
5qi	string ($int32) enter a range in [0-255] number	O	Identifier for the authorized QoS parameters for the service data flow. It shall be included when the QoS data decision.
arp	Arp	O	ARP information
averwindow	string		
defQosFlowIndication	boolean	O	Indicates that the dynamic PCC rule shall always have its binding with the QoS Flow associated with the default QoS rule. Default value is "FALSE", if not present and has not been supplied previously.
description	string	O	The description of the Qos Data
gbrDl	string , Enter a value starting with number and ending bps or Kbps or Mbps or Gbps or Tbps	O	Indicates the guaranteed bandwidth in downlink.
gbrUl	string , Enter a value starting with number and ending bps or Kbps or Mbps or Gbps or Tbps	O	Indicates the guaranteed bandwidth in uplink.
maxDataBurstVol	integer ($int32) Enter a value between 1 and 4095	O	Denotes the largest amount of data that is required to be transferred within a period of 5GAN PDB (NOTE).
maxPacketLossRateDl	integer ($int32) Enter a value between 0 and 1000	O	Indicates the downlink maximum rate for lost packets that can be tolerated for the service data flow.
maxPacketLossRateUl	integer ($int32) Enter a value between 0 and 1000	O	Indicates the uplink maximum rate for lost packets that can be tolerated for the service data flow.
maxbrDl	string , Enter a value starting with number and ending bps or Kbps or Mbps or Gbps or Tbps	O	Indicates the max bandwidth in downlink.

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Table 2-99 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
maxbrUl	string , Enter a value starting with number and ending bps or Kbps or Mbps or Gbps or Tbps	O	Indicates the max bandwidth in uplink.
name	string	M	The name of the Qos Data
priorityLevel	integer ($int32) Enter a value between 1 and 127	O	Defines the relative importance of a resource request.
qnc	boolean	O	Indicates whether notifications are requested from 3GPP NG-RAN when the GFBR can no longer (or again) be guaranteed for a QoS flow during the lifetime of the QoS flow.
qosId	string		Specifies the QoS Id.
reflectiveQos	boolean	O	Indicates whether the QoS information is reflective for the corresponding service data flow. Default value is "FALSE", if not present and has not been supplied previously.
sharingKeyDl	string	O	Indicates, by containing the same value, what PCC rules may share resource in downlink direction.
sharingKeyUl	string	O	Indicates, by containing the same value, what PCC rules may share resource in uplink direction.

Table 2-100 Arp

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
preemptCap	ENUM	M	Defines whether a service data flow may get resources that were already assigned to another service data flow with a lower priority level.

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Table 2-100 (Cont.) Arp

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
preemptVuln	ENUM	M	Defines whether a service data flow may lose the resources assigned to it in order to admit a service data flow with higher priority level.
priorityLevel	integer ($int32) enter a range in [1-15] number	M	Defines the relative importance of a resource request.

Sample Request body structure for POST and PUT operations:

```
{
  "5qi": 0,
  "arp": {
    "preemptCap": "MAY_PREEMPT",
    "preemptVuln": "NOT_PREEMPTABLE",
    "priorityLevel": 0
  },
  "averWindow": 2000,
  "defQosFlowIndication": true,
  "description": "string",
  "gbrDl": "string",
  "gbrUl": "string",
  "maxDataBurstVol": 0,
  "maxPacketLossRateDl": 0,
  "maxPacketLossRateUl": 0,
  "maxbrDl": "string",
  "maxbrUl": "string",
  "name": "string",
  "priorityLevel": 0,
  "qnc": true,
  "qosId": "string",
  "reflectiveQos": true,
  "sharingKeyDl": "string",
  "sharingKeyUl": "string"
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "5qi": 0,
  "arp": {
    "preemptCap": "MAY_PREEMPT",
    "preemptVuln": "NOT_PREEMPTABLE",
    "priorityLevel": 0
  },
  "averWindow": 2000,
```


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```
  "defQosFlowIndication": true,
  "description": "string",
  "gbrDl": "string",
  "gbrUl": "string",
  "maxDataBurstVol": 0,
  "maxPacketLossRateDl": 0,
  "maxPacketLossRateUl": 0,
  "maxbrDl": "string",
  "maxbrUl": "string",
  "name": "string",
  "priorityLevel": 0,
  "qnc": true,
  "qosId": "string",
  "reflectiveQos": true,
  "sharingKeyDl": "string",
  "sharingKeyUl": "string"
}
```

Delete QoS Data

Table 2-101 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
qosDataName	string	M	Qos Data Name

Export/Import QoS Data s

Table 2-102 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of QoS data. For more information, see Get, Create, and Update QoS Data s.
key	string		Indicates the ID of QoS Data
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
```


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```
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "5qi": 0,
      "arp": {
        "preemptCap": "MAY_PREEMPT",
        "preemptVuln": "NOT_PREEMPTABLE",
        "priorityLevel": 0
      },
      "averWindow": 2000,
      "defQosFlowIndication": true,
      "description": "string",
      "gbrDl": "string",
      "gbrUl": "string",
      "maxDataBurstVol": 0,
      "maxPacketLossRateDl": 0,
      "maxPacketLossRateUl": 0,
      "maxbrDl": "string",
      "maxbrUl": "string",
      "name": "string",
      "priorityLevel": 0,
      "qnc": true,
      "qosId": "string",
      "reflectiveQos": true,
      "sharingKeyDl": "string",
      "sharingKeyUl": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


2.20 Traffic for PCC Rule

Table 2-103 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Traffic PCC Rule	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccrules	See Table A-3
Export Traffic PCC Rule	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccrules/export	See Table A-1
Import Traffic PCC Rule	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccrules/import	See Table A-3

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Table 2-103 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get Traffic PCC Rule	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccrules/{trafficPccRuleName}	See Table A-1
Update Traffic PCC Rule	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccrules/{trafficPccRuleName}	See Table A-2
Delete Traffic PCC Rule	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccrules/{trafficPccRuleName}	See Table A-4

Create, Get, and Update Traffic for PCC Rule

Table 2-104 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
description	string	O	
name	string	M	
param.diameter.pccRule.ARP.PreemptionCapability	string	O	Allowed values • 0 • 1
param.diameter.pccRule.ARP.PreemptionVulnerability	string	O	Allowed values • 0 • 1
param.diameter.pccRule.ARP.PriorityLevel	string	O	
param.diameter.pccRule.FlowDescriptions	string	O	
param.diameter.pccRule.FlowInformations	array	O	
param.diameter.pccRule.FlowStatus	string	O	Allowed values • 0 • 1 • 2 • 3
param.diameter.pccRule.bearerUsage	ENUM	O	

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Table 2-104 (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
param.diameter.pccRule.MeteringMethod	string	O	Allowed values • 0 • 1 • 2 • 3
param.diameter.pccRule.MonitoringKey	string	O	
param.diameter.pccRule.Offline	string	O	Allowed values • 0 • 1
param.diameter.pccRule.Online	string	O	Allowed values • 0 • 1
param.diameter.pccRule.Precedence	string	O	
param.diameter.pccRule.RatingGroup	string	O	
param.diameter.pccRule.ReportingLevel	string	O	Allowed values • 0 • 1 • 2
param.diameter.pccRule.RequiredAccessInfo	string	O	Allowed values • 1 • 2 • 3
param.diameter.pccRule.ResourceAllocationNotification	string	O	Allowed values • 0
param.diameter.pccRule.ServiceIdentifier	string	O	
param.diameter.pccRule.applicationServiceProviderIdentity	string	O	
param.diameter.pccRule.maxAuthDL	string	O	
param.diameter.pccRule.maxAuthUL	string	O	
param.diameter.pccRule.minRateDL	string	O	
param.diameter.pccRule.minRateUL	string	O	

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Table 2-104 (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
param.diameter.pccRule.qci	string	O	Allowed values: • 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 65 • 66 • 69 • 70
param.diameter.pccRule.sponsorIdentity	string	O	
param.diameter.pccRule.tdfApplicationIdentifier	string	O	
param.diameter.pccRule.tdfMuteNotification	string	O	Allowed values • 0
param.diameter.pccRule.tdfRedirectAddressType	string	O	Allowed values • 0 • 1 • 2 • 3
param.diameter.pccRule.tdfRedirectServerAddress	string	O	
param.diameter.pccRule.tdfRedirectSupport	string	O	Allowed values • 0 • 1

Table 2-105 param.diameter.pccRule.FlowInformations

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
flowDescription	string	O	

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Table 2-105 (Cont.) param.diameter.pccRule.FlowInformations

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
flowDirection	string	M	Allowed values: • -1 • 0 • 1 • 2 • 3
tos	string	O	
tosMask	string	O	

Sample Request Body structure for POST and PUT operations:

```
{
  "description": "string",
  "name": "string",
  "param.diameter.pccRule.ARP.PreemptionCapability": "0",
  "param.diameter.pccRule.ARP.PreemptionVulnerability": "0",
  "param.diameter.pccRule.ARP.PriorityLevel": "string",
  "param.diameter.pccRule.FlowDescriptions": "string",
  "param.diameter.pccRule.FlowInformations": [
    {
      "flowDescription": "string",
      "flowDirection": "-1",
      "tos": "string",
      "tosMask": "string"
    }
  ],
  "param.diameter.pccRule.FlowStatus": "0",
  "param.diameter.pccRule.MeteringMethod": "0",
  "param.diameter.pccRule.MonitoringKey": "string",
  "param.diameter.pccRule.Offline": "0",
  "param.diameter.pccRule.Online": "0",
  "param.diameter.pccRule.PStoCSSessionContinuity": "0",
  "param.diameter.pccRule.Precedence": "string",
  "param.diameter.pccRule.RatingGroup": "string",
  "param.diameter.pccRule.ReportingLevel": "0",
  "param.diameter.pccRule.RequiredAccessInfo": "1",
  "param.diameter.pccRule.ResourceAllocationNotification": "0",
  "param.diameter.pccRule.ServiceIdentifier": "string",
  "param.diameter.pccRule.applicationServiceProviderIdentity": "string",
  "param.diameter.pccRule.maxAuthDL": "string",
  "param.diameter.pccRule.maxAuthUL": "string",
  "param.diameter.pccRule.minRateDL": "string",
  "param.diameter.pccRule.minRateUL": "string",
  "param.diameter.pccRule.name": "string",
  "param.diameter.pccRule.qci": "1",
  "param.diameter.pccRule.sponsorIdentity": "string",
  "param.diameter.pccRule.tdfApplicationIdentifier": "string",
  "param.diameter.pccRule.tdfMuteNotification": "0",
  "param.diameter.pccRule.tdfRedirectAddressType": "0",
```


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```
  "param.diameter.pccRule.tdfRedirectServerAddress": "string",
  "param.diameter.pccRule.tdfRedirectSupport": "0"
}
```

Sample Response Body structure for GET, POST and PUT operations:

```
{
  "description": "string",
  "name": "string",
  "param.diameter.pccRule.ARP.PreemptionCapability": "0",
  "param.diameter.pccRule.ARP.PreemptionVulnerability": "0",
  "param.diameter.pccRule.ARP.PriorityLevel": "string",
  "param.diameter.pccRule.FlowDescriptions": "string",
  "param.diameter.pccRule.FlowInformations": [
    {
      "flowDescription": "string",
      "flowDirection": "-1",
      "tos": "string",
      "tosMask": "string"
    }
  ],
  "param.diameter.pccRule.FlowStatus": "0",
  "param.diameter.pccRule.MeteringMethod": "0",
  "param.diameter.pccRule.MonitoringKey": "string",
  "param.diameter.pccRule.Offline": "0",
  "param.diameter.pccRule.Online": "0",
  "param.diameter.pccRule.PStoCSSessionContinuity": "0",
  "param.diameter.pccRule.Precedence": "string",
  "param.diameter.pccRule.RatingGroup": "string",
  "param.diameter.pccRule.ReportingLevel": "0",
  "param.diameter.pccRule.RequiredAccessInfo": "1",
  "param.diameter.pccRule.ResourceAllocationNotification": "0",
  "param.diameter.pccRule.ServiceIdentifier": "string",
  "param.diameter.pccRule.applicationServiceProviderIdentity": "string",
  "param.diameter.pccRule.maxAuthDL": "string",
  "param.diameter.pccRule.maxAuthUL": "string",
  "param.diameter.pccRule.minRateDL": "string",
  "param.diameter.pccRule.minRateUL": "string",
  "param.diameter.pccRule.name": "string",
  "param.diameter.pccRule.qci": "1",
  "param.diameter.pccRule.sponsorIdentity": "string",
  "param.diameter.pccRule.tdfApplicationIdentifier": "string",
  "param.diameter.pccRule.tdfMuteNotification": "0",
  "param.diameter.pccRule.tdfRedirectAddressType": "0",
  "param.diameter.pccRule.tdfRedirectServerAddress": "string",
  "param.diameter.pccRule.tdfRedirectSupport": "0"
}
```


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Export/Import Traffic for PCC Rule

Table 2-106 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of traffic Pcc Ruke. For more information, see Table 2-104.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "description": "string",
      "name": "string",
      "param.diameter.pccRule.ARP.PreemptionCapability": "0",
      "param.diameter.pccRule.ARP.PreemptionVulnerability": "0",
      "param.diameter.pccRule.ARP.PriorityLevel": "string",
      "param.diameter.pccRule.FlowDescriptions": "string",
      "param.diameter.pccRule.FlowInformations": [
        {
          "flowDescription": "string",
          "flowDirection": "-1",
          "tos": "string",
          "tosMask": "string"
        }
      ],
      "param.diameter.pccRule.FlowStatus": "0",
      "param.diameter.pccRule.MeteringMethod": "0",
      "param.diameter.pccRule.MonitoringKey": "string",
      "param.diameter.pccRule.Offline": "0",
      "param.diameter.pccRule.Online": "0",
```


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```
        "param.diameter.pccRule.PStoCSSessionContinuity": "0",
        "param.diameter.pccRule.Precedence": "string",
        "param.diameter.pccRule.RatingGroup": "string",
        "param.diameter.pccRule.ReportingLevel": "0",
        "param.diameter.pccRule.RequiredAccessInfo": "1",
        "param.diameter.pccRule.ResourceAllocationNotification": "0",
        "param.diameter.pccRule.ServiceIdentifier": "string",
        "param.diameter.pccRule.applicationServiceProviderIdentity": "string",
        "param.diameter.pccRule.maxAuthDL": "string",
        "param.diameter.pccRule.maxAuthUL": "string",
        "param.diameter.pccRule.minRateDL": "string",
        "param.diameter.pccRule.minRateUL": "string",
        "param.diameter.pccRule.name": "string",
        "param.diameter.pccRule.qci": "1",
        "param.diameter.pccRule.sponsorIdentity": "string",
        "param.diameter.pccRule.tdfApplicationIdentifier": "string",
        "param.diameter.pccRule.tdfMuteNotification": "0",
        "param.diameter.pccRule.tdfRedirectAddressType": "0",
        "param.diameter.pccRule.tdfRedirectServerAddress": "string",
        "param.diameter.pccRule.tdfRedirectSupport": "0"
      }
    ],
    "key": "string",
    "sourceVersion": "string",
    "topic": "string"
}
```


Delete Traffic for PCC Rule

Table 2-107 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
trafficPccRuleName	string	M	Traffic PCC Rule Name

2.21 Traffic for PCC Profile

Table 2-108 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Traffic PCC Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccruleprofiles	See Table A-3
Export Traffic PCC Profile	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccruleprofiles/export	See Table A-1

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Table 2-108 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Import Traffic PCC Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccruleprofiles/import	See Table A-3
Get Traffic PCC Profile	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccruleprofiles/{trafficPccProfileName}	See Table A-1
Update Traffic PCC Profile	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccruleprofiles/{trafficPccProfileName}	See Table A-2
Delete Traffic PCC Profile	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pccruleprofiles/{trafficPccProfileName}	See Table A-4

Create, Get, and Update Traffic for PCC Profile

Table 2-109 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
description	string	O	
name	string	M	
param.diameter.pccProfile.ARP.PreemptionCapability	string	O	Allowed values • 0 • 1
param.diameter.pccProfile.ARP.PreemptionVulnerability	string	O	Allowed values • 0 • 1
param.diameter.pccProfile.ARP.PriorityLevel	string	O	
param.diameter.pccProfile.FlowDescriptions	string	O	
param.diameter.pccProfile.FlowInformations	array	O	
param.diameter.pccProfile.FlowStatus	string	O	Allowed values • 0 • 1 • 2 • 3

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Table 2-109 (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
param.diameter.pccProfile.bearerUsage	ENUM	O	
param.diameter.pccProfile.MeteringMethod	string	O	Allowed values • 0 • 1 • 2 • 3
param.diameter.pccProfile.MonitoringKey	string	O	
param.diameter.pccProfile.Offline	string	O	Allowed values • 0 • 1
param.diameter.pccProfile.Online	string	O	Allowed values • 0 • 1
param.diameter.pccProfile.Precedence	string	O	
param.diameter.pccProfile.RatingGroup	string	O	
param.diameter.pccProfile.ReportingLevel	string	O	Allowed values • 0 • 1 • 2
param.diameter.pccProfile.RequiredAccessInfo	string	O	Allowed values • 1 • 2 • 3
param.diameter.pccProfile.ResourceAllocationNotification	string	O	Allowed values • 0
param.diameter.pccProfile.ServiceIdentifier	string	O	
param.diameter.pccProfile.applicationServiceProviderIdentity	string	O	
param.diameter.pccProfile.maxAuthDL	string	O	
param.diameter.pccProfile.maxAuthUL	string	O	
param.diameter.pccProfile.minRateDL	string	O	
param.diameter.pccProfile.minRateUL	string	O	

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Table 2-109 (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
param.diameter.pccProfile.qci	string	O	Allowed values: • 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 65 • 66 • 69 • 70
param.diameter.pccProfile.sponsorIdentity	string	O	
param.diameter.pccProfile.tdfApplicationIdentifier	string	O	
param.diameter.pccProfile.tdfMuteNotification	string	O	Allowed values • 0
param.diameter.pccProfile.tdfRedirectAddressType	string	O	Allowed values • 0 • 1 • 2 • 3
param.diameter.pccProfile.tdfRedirectServerAddress	string	O	
param.diameter.pccProfile.tdfRedirectSupport	string	O	Allowed values • 0 • 1

Table 2-110 param.diameter.pccProfile.FlowInformations

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
flowDescription	string	O	

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Table 2-110 (Cont.) param.diameter.pccProfile.FlowInformations

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
flowDirection	string	M	Allowed values: • -1 • 0 • 1 • 2 • 3
tos	string	O	
tosMask	string	O	

Sample Request Body structure for POST and PUT operations:

```
{
  "description": "string",
  "name": "string",
  "param.diameter.pccProfile.ARP.PreemptionCapability": "0",
  "param.diameter.pccProfile.ARP.PreemptionVulnerability": "0",
  "param.diameter.pccProfile.ARP.PriorityLevel": "string",
  "param.diameter.pccProfile.FlowDescriptions": "string",
  "param.diameter.pccProfile.FlowInformations": [
    {
      "flowDescription": "string",
      "flowDirection": "-1",
      "tos": "string",
      "tosMask": "string"
    }
  ],
  "param.diameter.pccProfile.FlowStatus": "0",
  "param.diameter.pccProfile.MeteringMethod": "0",
  "param.diameter.pccProfile.MonitoringKey": "string",
  "param.diameter.pccProfile.Offline": "0",
  "param.diameter.pccProfile.Online": "0",
  "param.diameter.pccProfile.Precedence": "string",
  "param.diameter.pccProfile.RatingGroup": "string",
  "param.diameter.pccProfile.ReportingLevel": "0",
  "param.diameter.pccProfile.RequiredAccessInfo": "1",
  "param.diameter.pccProfile.ResourceAllocationNotification": "0",
  "param.diameter.pccProfile.ServiceIdentifier": "string",
  "param.diameter.pccProfile.applicationServiceProviderIdentity": "string",
  "param.diameter.pccProfile.maxAuthDL": "string",
  "param.diameter.pccProfile.maxAuthUL": "string",
  "param.diameter.pccProfile.minRateDL": "string",
  "param.diameter.pccProfile.minRateUL": "string",
  "param.diameter.pccProfile.qci": "1",
  "param.diameter.pccProfile.sponsorIdentity": "string",
  "param.diameter.pccProfile.tdfApplicationIdentifier": "string",
  "param.diameter.pccProfile.tdfMuteNotification": "0",
  "param.diameter.pccProfile.tdfRedirectAddressType": "0",
  "param.diameter.pccProfile.tdfRedirectServerAddress": "string",
```


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```
  "param.diameter.pccProfile.tdfRedirectSupport": "0"
}
```

Sample Response Body structure for GET, POST and PUT operations:

```
{
  "description": "string",
  "name": "string",
  "param.diameter.pccProfile.ARP.PreemptionCapability": "0",
  "param.diameter.pccProfile.ARP.PreemptionVulnerability": "0",
  "param.diameter.pccProfile.ARP.PriorityLevel": "string",
  "param.diameter.pccProfile.FlowDescriptions": "string",
  "param.diameter.pccProfile.FlowInformations": [
    {
      "flowDescription": "string",
      "flowDirection": "-1",
      "tos": "string",
      "tosMask": "string"
    }
  ],
  "param.diameter.pccProfile.FlowStatus": "0",
  "param.diameter.pccProfile.MeteringMethod": "0",
  "param.diameter.pccProfile.MonitoringKey": "string",
  "param.diameter.pccProfile.Offline": "0",
  "param.diameter.pccProfile.Online": "0",
  "param.diameter.pccProfile.Precedence": "string",
  "param.diameter.pccProfile.RatingGroup": "string",
  "param.diameter.pccProfile.ReportingLevel": "0",
  "param.diameter.pccProfile.RequiredAccessInfo": "1",
  "param.diameter.pccProfile.ResourceAllocationNotification": "0",
  "param.diameter.pccProfile.ServiceIdentifier": "string",
  "param.diameter.pccProfile.applicationServiceProviderIdentity": "string",
  "param.diameter.pccProfile.maxAuthDL": "string",
  "param.diameter.pccProfile.maxAuthUL": "string",
  "param.diameter.pccProfile.minRateDL": "string",
  "param.diameter.pccProfile.minRateUL": "string",
  "param.diameter.pccProfile.qci": "1",
  "param.diameter.pccProfile.sponsorIdentity": "string",
  "param.diameter.pccProfile.tdfApplicationIdentifier": "string",
  "param.diameter.pccProfile.tdfMuteNotification": "0",
  "param.diameter.pccProfile.tdfRedirectAddressType": "0",
  "param.diameter.pccProfile.tdfRedirectServerAddress": "string",
  "param.diameter.pccProfile.tdfRedirectSupport": "0"
}
```

Export/Import Traffic for PCC Profile

Table 2-111 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		

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Table 2-111 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of traffic Pcc Profile. For more information, see Table 2-109.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "description": "string",
      "name": "string",
      "param.diameter.pccProfile.ARP.PreemptionCapability": "0",
      "param.diameter.pccProfile.ARP.PreemptionVulnerability": "0",
      "param.diameter.pccProfile.ARP.PriorityLevel": "string",
      "param.diameter.pccProfile.FlowDescriptions": "string",
      "param.diameter.pccProfile.FlowInformations": [
        {
          "flowDescription": "string",
          "flowDirection": "-1",
          "tos": "string",
          "tosMask": "string"
        }
      ],
      "param.diameter.pccProfile.FlowStatus": "0",
      "param.diameter.pccProfile.MeteringMethod": "0",
      "param.diameter.pccProfile.MonitoringKey": "string",
      "param.diameter.pccProfile.Offline": "0",
      "param.diameter.pccProfile.Online": "0",
      "param.diameter.pccProfile.Precedence": "string",
      "param.diameter.pccProfile.RatingGroup": "string",
      "param.diameter.pccProfile.ReportingLevel": "0",
      "param.diameter.pccProfile.RequiredAccessInfo": "1",
      "param.diameter.pccProfile.ResourceAllocationNotification": "0",
```


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```
      "param.diameter.pccProfile.ServiceIdentifier": "string",
      "param.diameter.pccProfile.applicationServiceProviderIdentity":
"string",
      "param.diameter.pccProfile.maxAuthDL": "string",
      "param.diameter.pccProfile.maxAuthUL": "string",
      "param.diameter.pccProfile.minRateDL": "string",
      "param.diameter.pccProfile.minRateUL": "string",
      "param.diameter.pccProfile.qci": "1",
      "param.diameter.pccProfile.sponsorIdentity": "string",
      "param.diameter.pccProfile.tdfApplicationIdentifier": "string",
      "param.diameter.pccProfile.tdfMuteNotification": "0",
      "param.diameter.pccProfile.tdfRedirectAddressType": "0",
      "param.diameter.pccProfile.tdfRedirectServerAddress": "string",
      "param.diameter.pccProfile.tdfRedirectSupport": "0"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


Delete Traffic for PCC Profile

Table 2-112 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
trafficPccProfileName	string	M	Traffic PCC Profile Name

2.22 Traffic for Diameter QoS

Table 2-113 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Traffic Diameter QoS	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/diameterqos	See Table A-3
Export Traffic Diameter QoS	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/diameterqos/export	See Table A-1
Import Traffic Diameter QoS	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/diameterqos/import	See Table A-3

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Table 2-113 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get Traffic Diameter QoS	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/diameterqos/{trafficDiameterQoSName}	See Table A-1
Update Traffic Diameter QoS	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/diameterqos/{trafficDiameterQoSName}	See Table A-2
Delete Traffic Diameter QoS	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/diameterqos/{trafficDiameterQoSName}	See Table A-4

Create, Get, and Update Traffic for Diameter QoS

Table 2-114 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
description	string	O	
name	string	M	
param.diameter.qosProfile.ARP.PreemptionCapability	string	O	Allowed values: • 0 • 1
param.diameter.qosProfile.ARP.PreemptionVulnerability	string	O	Allowed values: • 0 • 1
param.diameter.qosProfile.ARP.PriorityLevel	string	O	
param.diameter.qosProfile.ResourceAllocationNotification	string	O	Allowed values: • 0
param.diameter.qosProfile.maxAuthDL	string	O	
param.diameter.qosProfile.maxAuthUL	string	O	
param.diameter.qosProfile.minRateDL	string	O	
param.diameter.qosProfile.minRateUL	string	O	

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Table 2-114 (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
param.diameter.qosProfile.qci	string	O	Allowed values: • 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 65 • 66 • 69 • 70

Sample Request Body structure for POST and PUT operations:

```
{
  "description": "string",
  "name": "string",
  "param.diameter.qosProfile.ARP.PreemptionCapability": "0",
  "param.diameter.qosProfile.ARP.PreemptionVulnerability": "0",
  "param.diameter.qosProfile.ARP.PriorityLevel": "string",
  "param.diameter.qosProfile.ResourceAllocationNotification": "0",
  "param.diameter.qosProfile.maxAuthDL": "string",
  "param.diameter.qosProfile.maxAuthUL": "string",
  "param.diameter.qosProfile.minRateDL": "string",
  "param.diameter.qosProfile.minRateUL": "string",
  "param.diameter.qosProfile.qci": "1"
}
```

Sample Response Body structure for GET, POST and PUT operations:

```
{
  "description": "string",
  "name": "string",
  "param.diameter.qosProfile.ARP.PreemptionCapability": "0",
  "param.diameter.qosProfile.ARP.PreemptionVulnerability": "0",
  "param.diameter.qosProfile.ARP.PriorityLevel": "string",
  "param.diameter.qosProfile.ResourceAllocationNotification": "0",
  "param.diameter.qosProfile.maxAuthDL": "string",
  "param.diameter.qosProfile.maxAuthUL": "string",
  "param.diameter.qosProfile.minRateDL": "string",
  "param.diameter.qosProfile.minRateUL": "string",
  "param.diameter.qosProfile.qci": "1"
}
```


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Export/Import Traffic for Diameter QoS

Table 2-115 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of traffic diameter QoS. For more information, see Table 2-114.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "description": "string",
      "name": "string",
      "param.diameter.qosProfile.ARP.PreemptionCapability": "0",
      "param.diameter.qosProfile.ARP.PreemptionVulnerability": "0",
      "param.diameter.qosProfile.ARP.PriorityLevel": "string",
      "param.diameter.qosProfile.ResourceAllocationNotification": "0",
      "param.diameter.qosProfile.maxAuthDL": "string",
      "param.diameter.qosProfile.maxAuthUL": "string",
      "param.diameter.qosProfile.minRateDL": "string",
      "param.diameter.qosProfile.minRateUL": "string",
      "param.diameter.qosProfile.qci": "1"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


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Delete Traffic for Diameter QoS

Table 2-116 Request/Response Body Parameters

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
trafficDiameterQoSName	string		M	Traffic Diameter QoS Name

2.23 Traffic for ADC Rule

Table 2-117 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Traffic Adc Rule	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/adcrules	See Table A-3
Export Traffic Adc Rule	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/adcrules/export	See Table A-1
Import Traffic Adc Rule	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/adcrules/import	See Table A-3
Get Traffic Adc Rule	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/adcrules/{trafficAdcRuleName}	See Table A-1
Update Traffic Adc Rule	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/adcrules/{trafficAdcRuleName}	See Table A-2
Delete Traffic Adc Rule	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/adcrules/{trafficAdcRuleName}	See Table A-4

Create, Get, and Update Traffic for ADC Rule

Table 2-118 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
description	string	O	

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Table 2-118 (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	M	
param.diameter.adcRule.FlowStatus	string	O	Allowed values: • 0 • 1 • 2 • 3
param.diameter.adcRule.MeteringMethod	string	O	Allowed values: • 0 • 1 • 2 • 3
param.diameter.adcRule.MonitoringKey	string	O	
param.diameter.adcRule.Offline	string	O	Allowed values: • 0 • 1
param.diameter.adcRule.Online	string	O	Allowed values: • 0 • 1
param.diameter.adcRule.Precedence	string	O	
param.diameter.adcRule.RatingGroup	string	O	
param.diameter.adcRule.ReportingLevel	string	O	Allowed values: • 0 • 1
param.diameter.adcRule.ServiceIdentifier	string	O	
param.diameter.adcRule.maxAuthDL	string	O	
param.diameter.adcRule.maxAuthUL	string	O	
param.diameter.adcRule.name	string	M	
param.diameter.adcRule.tdfApplicationIdentifier	string	O	
param.diameter.adcRule.tdfMuteNotification	string	O	Allowed values: • 0
param.diameter.adcRule.tdfRedirectAddressType	string	O	Allowed values: • 0 • 1 • 2 • 3

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Table 2-118 (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
param.diameter.adcRule.tdfRedirectServerAddress	string	O	
param.diameter.adcRule.tdfRedirectSupport	string	O	Allowed values: • 0 • 1

Sample Request Body structure for POST and PUT operations:

```
{
  "description": "string",
  "name": "string",
  "param.diameter.adcRule.FlowStatus": "0",
  "param.diameter.adcRule.MeteringMethod": "0",
  "param.diameter.adcRule.MonitoringKey": "string",
  "param.diameter.adcRule.Offline": "0",
  "param.diameter.adcRule.Online": "0",
  "param.diameter.adcRule.Precedence": "string",
  "param.diameter.adcRule.RatingGroup": "string",
  "param.diameter.adcRule.ReportingLevel": "0",
  "param.diameter.adcRule.ServiceIdentifier": "string",
  "param.diameter.adcRule.maxAuthDL": "string",
  "param.diameter.adcRule.maxAuthUL": "string",
  "param.diameter.adcRule.name": "string",
  "param.diameter.adcRule.tdfApplicationIdentifier": "string",
  "param.diameter.adcRule.tdfMuteNotification": "0",
  "param.diameter.adcRule.tdfRedirectAddressType": "0",
  "param.diameter.adcRule.tdfRedirectServerAddress": "string",
  "param.diameter.adcRule.tdfRedirectSupport": "0"
}
```

Sample Response Body structure for GET, POST and PUT operations:

```
{
  "description": "string",
  "name": "string",
  "param.diameter.adcRule.FlowStatus": "0",
  "param.diameter.adcRule.MeteringMethod": "0",
  "param.diameter.adcRule.MonitoringKey": "string",
  "param.diameter.adcRule.Offline": "0",
  "param.diameter.adcRule.Online": "0",
  "param.diameter.adcRule.Precedence": "string",
  "param.diameter.adcRule.RatingGroup": "string",
  "param.diameter.adcRule.ReportingLevel": "0",
  "param.diameter.adcRule.ServiceIdentifier": "string",
  "param.diameter.adcRule.maxAuthDL": "string",
  "param.diameter.adcRule.maxAuthUL": "string",
```


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```
  "param.diameter.adcRule.name": "string",
  "param.diameter.adcRule.tdfApplicationIdentifier": "string",
  "param.diameter.adcRule.tdfMuteNotification": "0",
  "param.diameter.adcRule.tdfRedirectAddressType": "0",
  "param.diameter.adcRule.tdfRedirectServerAddress": "string",
  "param.diameter.adcRule.tdfRedirectSupport": "0"
}
```

Export/Import Traffic for ADC Rule

Table 2-119 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of traffic Adc Rule. For more information, see Create, Get, and Update Traffic for ADC Rule
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "description": "string",
      "name": "string",
      "param.diameter.adcRule.FlowStatus": "0",
      "param.diameter.adcRule.MeteringMethod": "0",
      "param.diameter.adcRule.MonitoringKey": "string",
      "param.diameter.adcRule.Offline": "0",
      "param.diameter.adcRule.Online": "0",
      "param.diameter.adcRule.Precedence": "string",
      "param.diameter.adcRule.RatingGroup": "string",
      "param.diameter.adcRule.ReportingLevel": "0",
      "param.diameter.adcRule.ServiceIdentifier": "string",
```


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```
      "param.diameter.adcRule.maxAuthDL": "string",
      "param.diameter.adcRule.maxAuthUL": "string",
      "param.diameter.adcRule.name": "string",
      "param.diameter.adcRule.tdfApplicationIdentifier": "string",
      "param.diameter.adcRule.tdfMuteNotification": "0",
      "param.diameter.adcRule.tdfRedirectAddressType": "0",
      "param.diameter.adcRule.tdfRedirectServerAddress": "string",
      "param.diameter.adcRule.tdfRedirectSupport": "0"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

Delete Traffic for ADC Rule

Table 2-120 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
trafficAdcRuleName	string	M	Traffic ADC Rule Name

2.24 Time Period

Table 2-121 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Time Period	POST	{apiRoot}/ocpm/pcrf/v1/configuration/policy/timePeriod	See Table A-3
Export Time Period	GET	{apiRoot}/ocpm/pcrf/v1/configuration/policy/timePeriod/export	See Table A-1
Import Time Period	POST	{apiRoot}/ocpm/pcrf/v1/configuration/policy/timePeriod/import	See Table A-3
Get Time Period	GET	{apiRoot}/ocpm/pcrf/v1/configuration/policy/timePeriod/{timePeriodName}	See Table A-1
Update Time Period	PUT	{apiRoot}/ocpm/pcrf/v1/configuration/policy/timePeriod/{timePeriodName}	See Table A-2
Delete Time Period	DELETE	{apiRoot}/ocpm/pcrf/v1/configuration/policy/timePeriod/{timePeriodName}	See Table A-4

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Create, Get, and Update Time Period

Table 2-122 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
description	string	O	
name	string	M	
precedence	string	O	
timeSlot	array	O	

Table 2-123 timeSlot

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
daysOfMonth	string	O	
daysOfWeek	string	O	
endTime	string	O	
monthsOfYear	string	O	
startTime	string	O	
years	string	O	

Sample Request Body structure for POST and PUT operations:

```
{
  "description": "string",
  "name": "string",
  "precedence": "string",
  "timeSlot": [
    {
      "daysOfMonth": "string",
      "daysOfWeek": "string",
      "endTime": "string",
      "monthsOfYear": "string",
      "startTime": "string",
      "years": "string"
    }
  ]
}
```

Sample Response Body structure for GET, POST and PUT operations:

```
{
  "description": "string",
  "name": "string",
  "precedence": "string",
  "timeSlot": [
    {
      "daysOfMonth": "string",
```


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```
      "daysOfWeek": "string",
      "endTime": "string",
      "monthsOfYear": "string",
      "startTime": "string",
      "years": "string"
    }
  ]
}
```

Export/Import Time Period

Table 2-124 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of time period.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "description": "string",
      "name": "string",
      "precedence": "string",
      "timeSlot": [
        {
          "daysOfMonth": "string",
          "daysOfWeek": "string",
          "endTime": "string",
          "monthsOfYear": "string",
          "startTime": "string",
          "years": "string"
        }
      ]
```


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```
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

Delete Time Period

Table 2-125 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
timePeriodName	string	M	Time Period Name

2.25 Predefined Pcc Rule Base

Table 2-126 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Predefined Pcc Rule Base	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedpccrulebases	See Table A-3
Export Predefined Pcc Rule Base	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedpccrulebases/export	See Table A-1
Import Predefined Pcc Rule Base	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedpccrulebases/import	See Table A-3
Get Predefined Pcc Rule Base	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedpccrulebases/{predefinedPccRuleBaseName}	See Table A-1
Update Predefined Pcc Rule Base	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedpccrulebases/{predefinedPccRuleBaseName}	See Table A-2

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Table 2-126 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Delete Predefined Pcc Rule Base	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedpccrulebases/{predefinedPccRuleBaseName}	See Table A-4

Create, Get, and Update Predefined Pcc Rule Base

Table 2-127 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	M	
param.diameter.pccPredefBaseRule.description	string	O	
param.diameter.pccPredefBaseRule.name	string	O	

Sample Request Body structure for POST and PUT operations:

```
{
  "name": "string",
  "param.diameter.pccPredefBaseRule.description": "string",
  "param.diameter.pccPredefBaseRule.name": "string"
}
```

Sample Response Body structure for GET, POST and PUT operations:

```
{
  "name": "string",
  "param.diameter.pccPredefBaseRule.description": "string",
  "param.diameter.pccPredefBaseRule.name": "string"
}
```

Export/Import Predefined Pcc Rule Base

Table 2-128 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp

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Table 2-128 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of predefined Pcc Rule Base. For more information, see Table 2-127.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "name": "string",
      "param.diameter.pccPredefBaseRule.description": "string",
      "param.diameter.pccPredefBaseRule.name": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

Delete Predefined Pcc Rule Base

Table 2-129 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
predefinedPccRuleBaseName	string	M	Predefined Pcc Rule Base Name

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2.26 Predefined Pcc Rule

Table 2-130 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Predefined Pcc Rule	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedpccrules	See Table A-3
Export Predefined Pcc Rule	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedpccrules/export	See Table A-1
Import Predefined Pcc Rule	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedpccrules/import	See Table A-3
Get Predefined Pcc Rule	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedpccrules/{predefinedPccRuleName}	See Table A-1
Update Predefined Pcc Rule	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedpccrules/{predefinedPccRuleName}	See Table A-2
Delete Predefined Pcc Rule	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedpccrules/{predefinedPccRuleName}	See Table A-4

Create, Get, and Update Predefined Pcc Rule

Table 2-131 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	M	
param.diameter.pccPredefRule.MonitoringKey	string	O	
param.diameter.pccPredefRule.description	string	O	

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Table 2-131 (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
param.diameter.pccPredefRule.name	string	O	

Sample Request Body structure for POST and PUT operations:

```
{
  "name": "string",
  "param.diameter.pccPredefRule.MonitoringKey": "string",
  "param.diameter.pccPredefRule.description": "string",
  "param.diameter.pccPredefRule.name": "string"
}
```

Sample Response Body structure for GET, POST and PUT operations:

```
{
  "name": "string",
  "param.diameter.pccPredefRule.MonitoringKey": "string",
  "param.diameter.pccPredefRule.description": "string",
  "param.diameter.pccPredefRule.name": "string"
}
```

Export/Import Predefined Pcc Rule

Table 2-132 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of predefined Pcc Rule.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
```


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```
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "name": "string",
      "param.diameter.pccPredefRule.MonitoringKey": "string",
      "param.diameter.pccPredefRule.description": "string",
      "param.diameter.pccPredefRule.name": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

Delete Predefined Pcc Rule

Table 2-133 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
predefinedPccRuleName	string	M	Predefined Pcc Rule Name

2.27 Predefined Adc Rule Base

Table 2-134 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Predefined Adc Rule Base	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedadcrulebases	See Table A-3
Export Predefined Adc Rule Base	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedadcrulebases/export	See Table A-1
Import Predefined Adc Rule Base	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedadcrulebases/import	See Table A-3

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Table 2-134 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get Predefined Adc Rule Base	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedadcrulebases/{predefinedAdcRuleBaseName}	See Table A-1
Update Predefined Adc Rule Base	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedadcrulebases/{predefinedAdcRuleBaseName}	See Table A-2
Delete Predefined Adc Rule Base	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedadcrulebases/{predefinedAdcRuleBaseName}	See Table A-4

Create, Get, and Update Predefined Adc Rule Base

Table 2-135 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	M	
param.diameter.adcPredefBaseRule.description	string	O	
param.diameter.adcPredefBaseRule.name	string	O	

Sample Request Body structure for POST and PUT operations:

```
{
  "name": "string",
  "param.diameter.adcPredefBaseRule.description": "string",
  "param.diameter.adcPredefBaseRule.name": "string"
}
```

Sample Response Body structure for GET, POST and PUT operations:

```
{
  "name": "string",
  "param.diameter.adcPredefBaseRule.description": "string",
```


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```
  "param.diameter.adcPredefBaseRule.name": "string"
}
```

Export/Import Predefined Adc Rule Base

Table 2-136 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of predefined Adc Base Rule.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "name": "string",
      "param.diameter.adcPredefBaseRule.description": "string",
      "param.diameter.adcPredefBaseRule.name": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


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Delete Predefined Adc Rule Base

Table 2-137 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
predefinedAdcRuleBaseName	string	M	Predefined Adc Rule Base Name

2.28 Predefined Adc Rule

Table 2-138 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Predefined Adc Rule	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedadcrules	See Table A-3
Export Predefined Adc Rule	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedadcrules/export	See Table A-1
Import Predefined Adc Rule	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedadcrules/import	See Table A-3
Get Predefined Adc Rule	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedadcrules/{predefinedAdcRuleName}	See Table A-1
Update Predefined Adc Rule	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedadcrules/{predefinedAdcRuleName}	See Table A-2
Delete Predefined Adc Rule	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/predefinedadcrules/{predefinedAdcRuleName}	See Table A-4

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Create, Get, and Update Predefined Adc Rule

Table 2-139 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	M	
param.diameter.adcPredefRule.description	string	O	
param.diameter.adcPredefRule.name	string	O	

Sample Request Body structure for POST and PUT operations:

```
{
  "name": "string",
  "param.diameter.adcPredefRule.description": "string",
  "param.diameter.adcPredefRule.name": "string"
}
```

Sample Response Body structure for GET, POST and PUT operations:

```
{
  "name": "string",
  "param.diameter.adcPredefBaseRule.description": "string",
  "param.diameter.adcPredefBaseRule.name": "string"
}
```

Export/Import Predefined Adc Rule

Table 2-140 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of predefined Adc Rule.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

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Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "name": "string",
      "param.diameter.adcPredefBaseRule.description": "string",
      "param.diameter.adcPredefBaseRule.name": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

Delete Predefined Adc Rule

Table 2-141 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
predefinedAdcRuleName	string	M	Predefined Adc Rule Name

2.29 PCRF Presence Reporting Area

Table 2-142 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create PCRF Pesence Reporting Area	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pras	See Table A-3
Export PCRF Pesence Reporting Area	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pras/export	See Table A-1
Import PCRF Pesence Reporting Area	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pras/import	See Table A-3
Get PCRF Pesence Reporting Area	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pras/{praPcrfName}	See Table A-1

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Table 2-142 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Update PCRF Pesence Reporting Area	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pras/{praPcrfName}	See Table A-2
Delete PCRF Pesence Reporting Area	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcrf/pras/{praPcrfName}	See Table A-4

Create, Get, and Update Pra

Table 2-143 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
descrption	string	O	
id	string	M	
name	string	M	
praItems	array	O	
type	string		Allowed value: Core Network pre-configured

Table 2-144 praItems

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
cgi	Cgi	O	
ecgi	Ecgi	O	Allowed values: • -1 • 0 • 1 • 2 • 3
home_enodeb	HomeEnodeb	O	
macro_enodeb	MacroEnodeb	O	
rai	RAI		
sai	SAI		
tai	TAI		

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Table 2-144 (Cont.) praItems

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
type	string		Allowed values: • tai • rai • macro_enodeb • home_enodeb • ecgi • sai • cgi

Table 2-145 cgi

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
ci	string	O	
lac	string	O	
mcc	string	O	
mnc	string	O	

Table 2-146 ecgi

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
eci	string	O	
mcc	string	O	
mnc	string	O	

Table 2-147 home_enodeb

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
henb	string	O	
mcc	string	O	
menb	string	O	
mnc	string	O	

Table 2-148 macro_enodeb

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
mcc	string	O	

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Table 2-148 (Cont.) macro_enodeb

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
menb	string	O	
mnc	string	O	

Table 2-149 rai

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
lac	string	O	
mcc	string	O	
mnc	string	O	
rac	string	O	

Table 2-150 sai

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
lac	string	O	
mcc	string	O	
mnc	string	O	
sac	string	O	

Table 2-151 tai

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
mcc	string	O	
mnc	string	O	
tac	string	O	

Sample Request Body structure for POST and PUT operations:

```
{
  "description": "string",
  "id": "string",
  "name": "string",
  "praItems": [
    {
      "cgi": {
        "ci": "string",
        "lac": "string",
        "mcc": "string",
        "mnc": "string"
```


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```
      },
      "ecgi": {
        "eci": "string",
        "mcc": "string",
        "mnc": "string"
      },
      "home_enodeb": {
        "henb": "string",
        "mcc": "string",
        "menb": "string",
        "mnc": "string"
      },
      "macro_enodeb": {
        "mcc": "string",
        "menb": "string",
        "mnc": "string"
      },
      "rai": {
        "lac": "string",
        "mcc": "string",
        "mnc": "string",
        "rac": "string"
      },
      "sai": {
        "lac": "string",
        "mcc": "string",
        "mnc": "string",
        "sac": "string"
      },
      "tai": {
        "mcc": "string",
        "mnc": "string",
        "tac": "string"
      },
      "type": "cgi"
    }
  ],
  "type": "Core Network pre-configured"
}
```

Sample Response Body structure for GET, POST and PUT operations:

```
{
  "description": "string",
  "id": "string",
  "name": "string",
  "praItems": [
    {
      "cgi": {
        "ci": "string",
        "lac": "string",
        "mcc": "string",
        "mnc": "string"
      },
      "ecgi": {
```


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```
        "eci": "string",
        "mcc": "string",
        "mnc": "string"
      },
      "home_enodeb": {
        "henb": "string",
        "mcc": "string",
        "menb": "string",
        "mnc": "string"
      },
      "macro_enodeb": {
        "mcc": "string",
        "menb": "string",
        "mnc": "string"
      },
      "rai": {
        "lac": "string",
        "mcc": "string",
        "mnc": "string",
        "rac": "string"
      },
      "sai": {
        "lac": "string",
        "mcc": "string",
        "mnc": "string",
        "sac": "string"
      },
      "tai": {
        "mcc": "string",
        "mnc": "string",
        "tac": "string"
      },
      "type": "cgi"
    }
  ],
  "type": "Core Network pre-configured"
}
```

Export/Import Pra

Table 2-152 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of Pra.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported

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Table 2-152 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "description": "string",
      "id": "string",
      "name": "string",
      "praItems": [
        {
          "cgi": {
            "ci": "string",
            "lac": "string",
            "mcc": "string",
            "mnc": "string"
          },
          "ecgi": {
            "eci": "string",
            "mcc": "string",
            "mnc": "string"
          },
          "home_enodeb": {
            "henb": "string",
            "mcc": "string",
            "menb": "string",
            "mnc": "string"
          },
          "macro_enodeb": {
            "mcc": "string",
            "menb": "string",
            "mnc": "string"
          },
          "rai": {
            "lac": "string",
            "mcc": "string",
            "mnc": "string",
            "rac": "string"
          },
          "sai": {
```


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```
            "lac": "string",
            "mcc": "string",
            "mnc": "string",
            "sac": "string"
          },
          "tai": {
            "mcc": "string",
            "mnc": "string",
            "tac": "string"
          },
          "type": "cgi"
        }
      ],
      "type": "Core Network pre-configured"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


Delete Pra

Table 2-153 Request/Response Body Parameters

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
praPcrfName	string		M	Pra Pcrf Name

2.30 Media Profile

Table 2-154 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Media Profile	POST	{apiRoot}/ocpm/pcrf/v1/configuration/policy/mediaProfile	See Table A-3
Export Media Profile	GET	{apiRoot}/ocpm/pcrf/v1/configuration/policy/mediaProfile/export	See Table A-1
Import Media Profile	POST	{apiRoot}/ocpm/pcrf/v1/configuration/policy/mediaProfile/import	See Table A-3
Get Media Profile	GET	/ocpm/pcrf/v1/configuration/policy/mediaProfile/{mediaProfileName}	See Table A-1

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Table 2-154 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Update Media Profile	PUT	{apiRoot}/ocpm/pcrf/v1/configuration/policy/mediaProfile/{mediaProfileName}	See Table A-2
Delete Media Profile	DELETE	{apiRoot}/ocpm/pcrf/v1/configuration/policy/mediaProfile/{mediaProfileName}	See Table A-4

Create, Get, and Update Media Profile

Table 2-155 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
codecName	string	M	
description	string		
frameSizeInBytes	integer	M	enter a range in 0 to 65535
frameSizeInMS	number	M	
id	string	M	
mediaType	string	M	
name	string	M	
pTime	integer	M	enter a range in 0 to 65535
payLoad	integer	M	enter a range in 0 to 255
sampleRate	integer	M	enter a range in 0 to 65535
transportType	string	M	RTP/AVP RTP/SAVP RTP/AVPF
useDefaultPTime	boolean	M	

Sample Request Body structure for POST and PUT operations:

```
{
  "codecName": "string",
  "description": "string",
  "frameSizeInBytes": 0,
  "frameSizeInMS": 0,
  "id": "string",
  "mediaType": "string",
  "name": "string",
  "pTime": 0,
  "payLoad": 0,
  "sampleRate": 0,
  "transportType": "RTP/AVP",
  "useDefaultPTime": true
}
```


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Sample Response Body structure for GET, POST and PUT operations:

```
{
  "codecName": "string",
  "description": "string",
  "frameSizeInBytes": 0,
  "frameSizeInMS": 0,
  "id": "string",
  "mediaType": "string",
  "name": "string",
  "pTime": 0,
  "payLoad": 0,
  "sampleRate": 0,
  "transportType": "RTP/AVP",
  "useDefaultPTime": true
}
```

Export/Import Media Profile

Table 2-156 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of media profile.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "codecName": "string",
      "description": "string",
      "frameSizeInBytes": 0,
      "frameSizeInMS": 0,
      "id": "string",
```


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```
      "mediaType": "string",
      "name": "string",
      "pTime": 0,
      "payLoad": 0,
      "sampleRate": 0,
      "transportType": "RTP/AVP",
      "useDefaultPTime": true
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

Delete Media Profile

Table 2-157 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
mediaProfileName	string	M	Media Profile Name

2.31 Match List

Table 2-158 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export Match List	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/matchList/export	See Table A-1
Import Match List	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/matchList/export	See Table A-3

Export/Import Match List

Table 2-159 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData.description	string		
exportData.id	string		
exportData.options.label	string		
exportData.items	array		
exportData.name	string		

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Table 2-159 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
exportData.type	string		
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "description": "string",
      "id": "string",
      "items": [
        "string"
      ],
      "name": "string",
      "type": "string"
    }
  ],
  "sourceVersion": "string",
  "topic": "string"
}
```

Sample cURL GET command

```
curl -X GET "http://10.75.151.216:30726/api-docs/oc-cnpolicy-configuration/v1/
policydata/common/matchList/export" -H "accept: application/json"
```

Sample cURL POST command

```
curl -X POST "http://10.75.151.216:30726/api-docs/oc-cnpolicy-
configuration/v1/policydata/common/matchList/import" -H "accept: application/
problem+json" -H "Content-Type: application/json" -d "{ \"date\": \"string\",
\"errors\": [ { \"message\": \"string\", \"name\": \"string\" } ],
\"exportData\": [ { \"description\": \"string\", \"id\": \"string\",
\"items\": [ \"string\" ], \"name\": \"string\", \"type\": \"string\" } ],
\"sourceVersion\": \"string\", \"topic\": \"string\"}"
```


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2.32 Dropdown Blocks

Table 2-160 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export dropdown blocks	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/dropdownBlocks/export	See Table A-1
Import Dropdown Blocks	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/dropdownBlocks/import	See Table A-3

Export/Import Dropdown Blocks

Table 2-161 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData.attrName	string		
exportData.description	string		
exportData.options.label	string		
exportData.options.value	string		
exportData.topic	string		
exportData.type	string		
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "attrName": "string",
      "description": "string",
```


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```
      "options": [
        {
          "label": "string",
          "value": "string"
        }
      ],
      "topic": "string",
      "type": "DYNAMIC"
    }
  ],
  "sourceVersion": "string",
  "topic": "string"
}
```

2.33 Custom Vendor

Table 2-162 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export Custom Vendor	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/customattributes/customvendor/export	See Table A-1
Import Custom Vendor	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/customattributes/customvendor/import	See Table A-3

Create, Get, and Update Custom Vendor

Table 2-163 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
description	string	O	
name	string	M	
value	string	O	

Sample Request Body structure for POST and PUT operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
```


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```
    {
      "description": "string",
      "name": "string",
      "value": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

Sample Request Body structure for POST and PUT operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "description": "string",
      "name": "string",
      "value": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

Export/Import Custom Vendor

Table 2-164 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of custom avp.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

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Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "description": "string",
      "name": "string",
      "value": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

2.34 Custom Schema

Table 2-165 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export Custom Schema	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/customattributes/customschema/export	See Table A-1
Import Custom Schema	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/customattributes/customschema/import	See Table A-3

Export/Import Custom Schema

Table 2-166 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData.name	string		
exportData.type	string		
key			

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Table 2-166 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "name": "string",
      "tag": [
        "string"
      ]
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

2.35 Custom AVP

Table 2-167 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Custom AVP	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/customattributes/avp	See Table A-3
Export Custom AVP	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/customattributes/avp/export	See Table A-1

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Table 2-167 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Import Custom AVP	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/customattributes/avp/import	See Table A-3
Get Custom AVP	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/customattributes/avp/{customAVPName}	See Table A-1
Update Custom AVP	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/customattributes/avp/{customAVPName}	See Table A-2
Delete Custom AVP	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/customattributes/avp/{customAVPName}	See Table A-4

Create, Get, and Update Custom AVP Name

Table 2-168 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
vendorSpecificFlag	boolean		
avpCode	string		
avpType	string		• enumerated • float32 • float64 • grouped • id • int32 • int64 • ipFilterRule • octetString • time • uint32 • uint64 • uri • utf8String
description	string		
mandatoryFlag	boolean		
mayEncryptFlag	boolean		
name	string	M	

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Table 2-168 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
protectFlag	boolean		
rootAvp	string		
vendorId	string	M	10415 5535 21274 9 5263 3076 255 2636 4874
vendorSpecificFlag	boolean		

Sample Request body structure for POST and PUT operations:

```
{
  "VendorSpecificFlag": true,
  "avpCode": "string",
  "avpType": "address",
  "description": "string",
  "mandatoryFlag": true,
  "mayEncryptFlag": true,
  "name": "string",
  "protectFlag": true,
  "rootAvp": "ADC-Rule-Definition:10415",
  "vendorId": "10415",
  "vendorSpecificFlag": true
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "VendorSpecificFlag": true,
  "avpCode": "string",
  "avpType": "address",
  "description": "string",
  "mandatoryFlag": true,
  "mayEncryptFlag": true,
  "name": "string",
  "protectFlag": true,
  "rootAvp": "ADC-Rule-Definition:10415",
  "vendorId": "10415",
  "vendorSpecificFlag": true
}
```


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Delete Custom AVP

Table 2-169 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
customAVPName	string	M	Custom AVP Name

Export/Import Custom AVP

Table 2-170 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of custom avp.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "VendorSpecificFlag": true,
      "avpCode": "string",
      "avpType": "address",
      "description": "string",
      "mandatoryFlag": true,
      "mayEncryptFlag": true,
      "name": "string",
      "protectFlag": true,
      "rootAvp": "ADC-Rule-Definition:10415",
      "vendorId": "10415",
      "vendorSpecificFlag": true
```


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```
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

2.36 Charging Server

Table 2-171 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Charging Server	POST	/oc-cnpolicy-configuration/v1/policy/chargingServer	See Table A-3
Export Charging Server	GET	/oc-cnpolicy-configuration/v1/policy/chargingServer/export	See Table A-1
Import Charging Server	POST	/oc-cnpolicy-configuration/v1/policy/chargingServer/import	See Table A-3
Get Charging Server	GET	/oc-cnpolicy-configuration/v1/policy/chargingServer/{chargingServerName}	See Table A-1
Update Charging Server	PUT	/oc-cnpolicy-configuration/v1/policy/chargingServer/{chargingServerName}	See Table A-2
Delete Charging Server	DELETE	/oc-cnpolicy-configuration/v1/policy/chargingServer/{chargingServerName}	See Table A-4

Get, Create, and Update Charging Server

Table 2-172 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
description	string		
hostName	string		
name	string	M	
port	string		
protocol	string	M	diameter radius tacacs+
security	boolean		

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Table 2-172 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
transport	string	M	tcp udp sctp

Sample Request body structure for POST and PUT operations:

```
{
  "description": "string",
  "hostName": "string",
  "name": "string",
  "port": "string",
  "protocol": "diameter",
  "security": true,
  "transport": "sctp"
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "description": "string",
  "hostName": "string",
  "name": "string",
  "port": "string",
  "protocol": "diameter",
  "security": true,
  "transport": "sctp"
}
```

Delete Charging Server

Table 2-173 Request/Response Body Parameters

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
chargingServerName	string		M	Charging Server Name

Export/Import Charging Server

Table 2-174 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp

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Table 2-174 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of charging server. For more information, see Get, Create, and Update Charging Server.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "description": "string",
      "hostName": "string",
      "name": "string",
      "port": "string",
      "protocol": "diameter",
      "security": true,
      "transport": "sctp"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


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2.37 PCRF Public Log

Table 2-175 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export Pcrf Log	GET	{apiRoot}/ocpm/pcrf/v1/configuration/diameter/logPcrf/export	See Table A-1
Import Pcrf Log	POST	{apiRoot}/ocpm/pcrf/v1/configuration/diameter/logPcrf/import	See Table A-3
Get Pcrf Log	GET	{apiRoot}/ocpm/pcrf/v1/configuration/service/logPcrf	See Table A-1
Update Pcrf Log	PUT	{apiRoot}/ocpm/pcrf/v1/configuration/service/logPcrf	See Table A-2

Get and Update PCRF Public Log

Table 2-176 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
packageLogLevel	Array	O	
rootLogLevel	string	M	Allowed values: • trace • debug • info • warn • error • fatal

Table 2-177 packageLogLevel

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
logLevelForPackage	string	O	Allowed values: • trace • debug • info • warn • error • fatal
packageName	string	M	

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Export/Import PCRF Public Log

Table 2-178 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of Pcrf Log. For more information, see Get and Update PCRF Public Log.
sourceVersion	string		System version of the product from which data is exported
topic	string		Topic of each managed object

2.38 User Service

Table 2-179 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get User Service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfuser	See Table A-1
Update User Service	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfuser	See Table A-2
Export User Service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfuser/export	See Table A-1
Import User Service	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfuser/import	See Table A-3

Get and Update User Service

Table 2-180 Request/Response Body Parameters

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
chf	chf configuration		O	
common	CommonConfiguration		O	
db	DBConfiguration		O	

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Table 2-180 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
system	UserSystemConfiguration		O	
udr	UDRConfiguration		O	

Table 2-181 chf Configuration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
chf.retryProfileForInitMsgs	String	O	Specifies the retry or alternate routing options to communicate with CHF.
chf.retryProfileForSubsqtMsgs	String	O	Specifies the retry or alternate routing options to send subsequent messages to CHF.
chf.nfCommProfile	String	O	Indicates whether to assign a profile created on the NF Communication Profile page to CHF.

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Table 2-181 (Cont.) chf Configuration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
chf.pcfServiceName	String	O	Specifies the custom/ 3gpp defined PCF service name to be included in the Binding Header in the subscription request or notification responses sent towards CHF. Possible values: • Aggregate or custom service name that represents a group of PCF services with aggregated service level information. For example: `npcf-custom-service` • Any of the 3GPP defined PCF service names such as `npcf-smpolicycontrol` or `npcf-am-policy-control` By default, the value of this parameter is empty.

Table 2-182 CommonConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
requestTimeout	string example: 1000	O	
resourceGetSub	boolean	O	

Table 2-183 DBConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
indexing	Indexing	O	
keysPrecedence	ENUM	O	
userIndexKeys	ENUM	O	

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Table 2-184 Indexing

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
indexByExtid	boolean	O	
indexByImsi	boolean	O	
indexByMsisdn	boolean	O	
indexByNai	boolean	O	

Table 2-185 UserSystemConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
apiRoot	string	O	This is PCF User Service API Root URI. It is part of PCF user service. This value is auto injected at service deployment. User can also configure this manually. **Default Value**:N/A
logLevel	string, ENUM	O	Indicates the log level of PCF Session Management (SM) service. Default Value: **WARN**

Table 2-186 UDR Configuration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
udr.retryProfileForInitMsgs	string	O	
udr.baseUri	string example: /nudr-dr/v1	O	
udr.supportedFeatures	string example: f	O	
udr.smDataVSANames	sting	O	
udr.amDataUri	string example: /policy-data/ues/{ueId}/am-data	O	
udr.uePolicySetUri	string example: /policy-data/ues/{ueId}/ue-policy-set	O	

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Table 2-186 (Cont.) UDR Configuration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
udr.smDataUri	string example: /policy-data/ues/{ueId}/sm-data	O	
udr.usageMonUri	string example: /policy-data/ues/{ueId}/sm-data/{usageMonId}	O	
udr.subsToNotifyUri	string example: /policy-data/subs-to-notify	O	
udr.subsToNotifySubsIdUri	string example: /policy-data/subs-to-notify/{subsId}	O	
udr.retryProfileForSubsqtMsgs	string		
udr.smDataSubscriptionResource	integer		
smDataSubscriptionResource	string, ENUM		
udr.discoverUdrWithPolicyAsSupportedDataSet	boolean		udr
udr.requestTimeout	string example: 1000	O	
udr.explodeSnssai	boolean	O	
udr.enableDiscoveryOnDemand	boolean	O	
udr.retrySubscriptionAs	string	O	
udr.nfCommProfile	String	O	Indicates whether to assign a profile created on the NF Communication Profile page to UDR.
udr.sendTargetAPIRouteInSubsToNotify	boolean	O	Specifies whether to send target API route header in subscribe to notify request towards UDR.
udr.sendInitDiscParamsInSubsToNotify	boolean	O	Specifies whether to send discovery parameters in subscribe to notify request towards UDR.
udr.sendProdIdInSubsToNotify	boolean	O	Specifies whether to send producer Id in Discovery header in subscribe to notify request towards UDR.

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Table 2-186 (Cont.) UDR Configuration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enableHttp11	boolean	O	

Sample Request body structure for PUT operations:

```
{
  "system": {
    "apiRoot": "string"
  },
  "common": {
    "requestTimeout": "1000"
  },
  "db": {
    "keysPrecedence": [
      "MSISDN"
    ],
    "userIndexKeys": [
      "msisdn"
    ],
    "indexing": {
      "indexByMsisdn": true,
      "indexByExtid": true,
      "indexByImsi": true,
      "indexByNai": true
    }
  },
  "udr": {
    "retryProfileForInitMsgs": "string",
    "baseUri": "/nudr-dr/v1",
    "supportedFeatures": "f",
    "smDataVSANames": "string",
    "amDataUri": "/policy-data/ues/{ueId}/am-data",
    "uePolicySetUri": "/policy-data/ues/{ueId}/ue-policy-set",
    "smDataUri": "/policy-data/ues/{ueId}/sm-data",
    "usageMonUri": "/policy-data/ues/{ueId}/sm-data/{usageMonId}",
    "subsToNotifyUri": "/policy-data/subs-to-notify",
    "subsToNotifySubsIdUri": "/policy-data/subs-to-notify/{subsId}",
    "retryProfileForSubsqtMsgs": "string",
    "smDataSubscriptionResource": "1",
    "discoverUdrWithPolicyAsSupportedDataSet": true,
    "requestTimeout": "1000",
    "explodeSnssai": true,
    "enableDiscoveryOnDemand": true,
    "retrySubscriptionAs": "subsequent",
    "nfCommProfile": "string",
    "sendTargetAPIRouteInSubsToNotify": true,
    "sendInitDiscParamsInSubsToNotify": false,
    "sendProdIdInSubsToNotify": false
  },
  "chf": {
```


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```
    "retryProfileForInitMsgs": "string",
    "retryProfileForSubsqtMsgs": "string",
    "nfCommProfile": "string"
    "pcfServiceName": "string"

  },
  "advancedSettings": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

Sample Response body structure for GET and PUT operations:

```
{
  "system": {
    "apiRoot": "string"
  },
  "common": {
    "requestTimeout": "1000"
  },
  "db": {
    "keysPrecedence": [
      "MSISDN"
    ],
    "userIndexKeys": [
      "msisdn"
    ],
    "indexing": {
      "indexByMsisdn": true,
      "indexByExtid": true,
      "indexByImsi": true,
      "indexByNai": true
    }
  },
  "udr": {
    "retryProfileForInitMsgs": "string",
    "baseUri": "/nudr-dr/v1",
    "supportedFeatures": "f",
    "smDataVSANames": "string",
    "amDataUri": "/policy-data/ues/{ueId}/am-data",
    "uePolicySetUri": "/policy-data/ues/{ueId}/ue-policy-set",
    "smDataUri": "/policy-data/ues/{ueId}/sm-data",
    "usageMonUri": "/policy-data/ues/{ueId}/sm-data/{usageMonId}",
    "subsToNotifyUri": "/policy-data/subs-to-notify",
    "subsToNotifySubsIdUri": "/policy-data/subs-to-notify/{subsId}",
    "retryProfileForSubsqtMsgs": "string",
    "smDataSubscriptionResource": "1",
    "discoverUdrWithPolicyAsSupportedDataSet": true,
    "requestTimeout": "1000",
    "explodeSnssai": true,
    "enableDiscoveryOnDemand": true,
    "retrySubscriptionAs": "subsequent",
```


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```
    "nfCommProfile": "string",
    "sendTargetAPIRouteInSubsToNotify": true,
    "sendInitDiscParamsInSubsToNotify": false,
    "sendProdIdInSubsToNotify": false
  },
  "chf": {
    "retryProfileForInitMsgs": "string",
    "retryProfileForSubsqtMsgs": "string",
    "nfCommProfile": "string"
  },
  "advancedSettings": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

Export/Import User Service

Table 2-187 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of user service. For more information, see Get and Update User Service.
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": {
    "chf": {
      "nfCommProfile": "string",
      "retryProfileForInitMsgs": "string",
      "retryProfileForSubsqtMsgs": "string"
    },
    "common": {
      "requestTimeout": 1000,
      "resourceGetSub": true
```


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```
    },
    "db": {
      "indexing": {
        "indexByExtid": true,
        "indexByImsi": true,
        "indexByMsisdn": true,
        "indexByNai": true
      },
      "keysPrecedence": [
        "EXTID"
      ],
      "userIndexKeys": [
        "extid"
      ]
    },
    "system": {
      "apiRoot": "string"
    },
    "udr": {
      "amDataUri": "/policy-data/ues/{ueId}/am-data",
      "baseUri": "/nudr-dr/v1",
      "discoverUdrWithPolicyAsSupportedDataSet": true,
      "enableDiscoveryOnDemand": true,
      "enableHttp11": true,
      "explodeSnssai": true,
      "nfCommProfile": "string",
      "requestTimeout": 1000,
      "retryProfileForInitMsgs": "string",
      "retryProfileForSubsqtMsgs": "string",
      "sendInitDiscParamsInSubsToNotify": false,
      "sendProdIdInSubsToNotify": false,
      "sendTargetAPIRouteInSubsToNotify": true,
      "smDataSubscriptionResource": "1",
      "smDataUri": "/policy-data/ues/{ueId}/sm-data",
      "subsToNotifySubsIdUri": "/policy-data/subs-to-notify/{subsId}",
      "subsToNotifyUri": "/policy-data/subs-to-notify",
      "supportedFeatures": "f",
      "uePolicySetUri": "/policy-data/ues/{ueId}/ue-policy-set",
      "usageMonUri": "/policy-data/ues/{ueId}/sm-data/{usageMonId}"
    }
  },
  "sourceVersion": "string",
  "topic": "string"
}
```


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2.39 Test Policy Projects

Table 2-188 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export test policy project	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policymgmt/policytests/testpolicyproject/export	See Table A-1
Import test policy project	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policymgmt/policytests/testpolicyproject/import	See Table A-3

Export/Import Test Policy Projects s

Table 2-189 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData.script	string		
exportData.servcieType	string		
exportData.suiteName	string		
exportData.testcase.fieldVal.basicInfo.caseDesc	string		
exportData.testcase.fieldVal.basicInfo.caseName	string		
exportData.inputVal	string		
exportData.resVal	string		
exportData.name	string		
exportData.reqDataModel	string		
exportData.resDataModel	string		
exportData.suiteName	string		
exportData.testCaseScript	string		
key	string		
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

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Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "exportData": [
    {
      "script": "string",
      "serviceType": "string",
      "suiteName": "string",
      "testCase": [
        {
          "fieldVal": {
            "basicInfo": {
              "caseDesc": "string",
              "caseName": "string"
            },
            "inputVal": {},
            "resVal": {}
          },
          "name": "string",
          "reqDataModel": "string",
          "resDataModel": "string",
          "suiteName": "string",
          "testCaseScript": "string"
        }
      ]
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

2.40 Data Model

Table 2-190 Supported REST APIs

Export data model	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Import data model	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policymgmt/policytests/datamodels/export	See Table A-1
Description	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policymgmt/policytests/datamodels/import	See Table A-3

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Export/Import Data Model s

Table 2-191 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData.description	string		
exportData.enumItems.name	string		
exportData.enumItems.value	string		
exportData.fields.description	string		
exportData.fields.itemType.objectType	string		
exportData.fields.itemType.primitiveType	string		
exportData.fields.itemType.type	string		
exportData.fields.labelName	string		
exportData.fields.name	string		
exportData.fields.objectType	string		
exportData.fields.primitiveType	string		
exportData.fields.type	string		
exportData.id	string		
exportData.labelName	string		
exportData.multiValue	string		
exportData.name	string		
exportData.type	string		
key	string		
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "exportData": [
    {
      "description": "string",
      "enumItems": [
        {
          "name": "string",
          "value": "string"
```


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```
        }
      ],
      "fields": [
        {
          "description": "string",
          "itemType": {
            "objectType": "string",
            "primitiveType": "boolean",
            "type": "object"
          },
          "labelName": "string",
          "name": "string",
          "objectType": "string",
          "primitiveType": "string",
          "type": "array"
        }
      ],
      "id": "string",
      "labelName": "string",
      "multiValue": true,
      "name": "string",
      "type": "enum"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


2.41 Policy Projects

Table 2-192 Supported REST APIs - Peer Node

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Import policy projects	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policymgmt/policyprojects/import	See Table A-3
Export Policy Projects	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policymgmt/policyprojects/export	See Table A-1
Get policy project	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policymgmt/policyprojects?policyProjectName=projectName&serviceName=service where, **serviceName** is a mandatory query Parameter and **policyProjectName** is an optional parameter.	See Table A-1

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Table 2-192 (Cont.) Supported REST APIs - Peer Node

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Expot Policy	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policymgmt/policyprojects/policy/export/{serviceName}/{policyProjectName}/{policyName}	See Table A-1
Import Policy	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policymgmt/policyprojects/policy/import	See Table A-3
Delete policy project	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policymgmt/policyprojects/{serviceName}/{policyProjectName}	See Table A-4
Update Policy Project State	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policymgmt/policyprojects/{serviceName}/{policyProjectName}	See Table A-2

Get, Create, and Update Policy Projects

Table 2-193 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
description	string	O	Specifies the description of a policy project.
name	String	O	Specifies the name of a policy project.
policy	array	O	
serviceType	String	O	Specifies the following supported service types: • PCF Session Management • PCF Access and Mobility • PCRF Core • PCF UE Policy • PCF Data Source • Usage Monitoring

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
```


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```
      "name": "string"
    }
  ],
  "exportData": [
    {
      "description": "string",
      "entrance": true,
      "key": "string",
      "layout": "string",
      "name": "string",
      "outputModels": [
        "string"
      ],
      "policy": [
        {
          "entrance": true,
          "layout": "string",
          "name": "string",
          "outputModels": [
            "string"
          ],
          "script": "string"
        }
      ],
      "projectId": "string",
      "script": "string",
      "serviceType": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

Delete Policy Projects

Table 2-194 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
policyProjectName	string	M	Policy Project Name

Export/Import Policy Projects

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
```


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```
  "exportData": [
    {
      "description": "string",
      "entrance": true,
      "key": "string",
      "layout": "string",
      "name": "string",
      "outputModels": [
        "string"
      ],
      "policy": [
        {
          "entrance": true,
          "layout": "string",
          "name": "string",
          "outputModels": [
            "string"
          ],
          "script": "string"
        }
      ],
      "projectId": "string",
      "script": "string",
      "serviceType": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

2.42 Policy Library

Table 2-195 Supported REST APIs - Peer Node

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export Policy Library	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policymgmt/policylibrary/export	See Table A-1
Import Policy Library	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policymgmt/policylibrary/import	See Table A-3

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Export/Import Policy Library

Table 2-196 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData.hasReturn	boolean		
exportData.layout	string		
exportData.library	string		
exportData.name	string		
exportData.paramList	array		
exportData.script	string		
exportData.service	string		
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "exportData": [
    {
      "hasReturn": true,
      "layout": "string",
      "library": "string",
      "name": "string",
      "paramList": [
        "string"
      ],
      "script": "string",
      "service": "string"
    }
  ],
  "sourceVersion": "string",
  "topic": "string"
}
```

2.43 Policy Data

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Table 2-197 Supported REST APIs

	HTTP Method or Custom Operation		Possible Result Code
Export Policy Data with or without Dependencies	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policymgmt/policydata/export	See Table A-3

> **Note**
>
> The **Policy Data** export API returns a `ResourceId` in response to the POST request. The `ResourceId` is the background task id for the POST operation. This id can be used to track the policy data export requests, and download the export data.
> For example, the POST API for Policy Data export operation takes the project name, policy name, and service type as input. The response of this API contains the resource id of the file created for export. You can use this resource Id to download the export data at any point of time. For more information about the API to download the export data, see Bulk Import Export Controller.

Export Policy Data

Table 2-198 Request Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	M	Name of the project.
policies	array	M	Name of the policies.
serviceType	string		Service type. **Note:** Only AM and SM service types are supported.
includeDependencies	boolean	O	This is a flag to decide, if dependencies must be included with export data. Provide any of the following values: • **true**: Export all the dependent MOs of the policy names provided in the **policies** field • **false**: Does not export all the dependent MOs of the policy names provided in the **policies** field

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Sample Request Body structure for Export operations:

```
[
  {
    "policyProjects": [
      {
        "name": "string",
        "policies": [
          "string"
        ]
      }
    ],
    "serviceType": "string"
  }
]
```

Below are the status displayed by Polcy Data export:

- **INIT**: The policies are being validated and export of MOs is not started.
- **IN_PROGRESS**: The export is running.
- **DONE**: The export is complete. Following are the possible status if the export is in DONE status:
  - **SUCCESS** : The export is successful
  - **FAILED** : When error exist in all the Policies exported.
  - **PARTIAL_SUCCESS** : The export is partially successful

2.44 URSP

Table 2-199 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create URSP	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfue/ursps	See Table A-3
Export URSP	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfue/ursps/export	See Table A-1
Import URSP	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfue/ursps/import	See Table A-3
Get URSP	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfue/ursps/{urspName}	See Table A-1
Update URSP	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfue/ursps/{urspName}	See Table A-2

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Table 2-199 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Delete URSP	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfue/ursps/{urspName}	See Table A-4

Get, Create, and Update URSPs

Table 2-200 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
name	string	M	Name of the URSP rule.
precedence	integer($int32) Enter a value between 0 and 255.	M	Precedence value of the URSP rule.
routeSelectionDescriptorList	UrspRouteSelectionDescriptorList	O	List of URSP routes.
trafficDescriptors	TrafficDescriptorIE	O	List of traffic descriptors.

Table 2-201 UrspRouteSelectionDescriptorList

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
routePrecedence	integer($int32)	M	
routeSelectionDescriptorComponents	RouteSelectionDescriptorComponentIE	M	

Table 2-202 UrspRouteSelectionDescriptorList

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
routePrecedence	integer($int32)	O	
routeSelectionDescriptorComponents	RouteSelectionDescriptorComponentIE	O	

Table 2-203 RouteSelectionDescriptorComponentIE

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
routeSelectionDescriptorType	ENUM	O	

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Table 2-203 (Cont.) RouteSelectionDescriptorComponentIE

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
value	RouteSelectionDescriptorComponent	O	

Table 2-204 TrafficDescriptorIE

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
trafficDescriptorType	ENUM	O	
value	RouteSelectionDescriptorComponent	O	

Table 2-205 RouteSelectionDescriptorComponentIE

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
routeSelectionDescriptorType	ENUM	O	
value	TrafficDescriptorComponent	O	

Sample Request body structure for POST and PUT operations:

```
{
  "name": "string",
  "precedence": 0,
  "routeSelectionDescriptorList": [
    {
      "routePrecedence": 0,
      "routeSelectionDescriptorComponents": [
        {
          "routeSelectionDescriptorType": "DNN",
          "value": {}
        }
      ]
    }
  ],
  "trafficDescriptors": [
    {
      "trafficDescriptorType": "CONNECTION_CAPABILITIES",
      "value": {}
    }
  ]
}
```


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Sample Response body structure for GET, POST, and PUT operations:

```
{
  "name": "string",
  "precedence": 0,
  "routeSelectionDescriptorList": [
    {
      "routePrecedence": 0,
      "routeSelectionDescriptorComponents": [
        {
          "routeSelectionDescriptorType": "DNN",
          "value": {}
        }
      ]
    }
  ],
  "trafficDescriptors": [
    {
      "trafficDescriptorType": "CONNECTION_CAPABILITIES",
      "value": {}
    }
  ]
}
```

Delete URSP

Table 2-206 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
urspName	string	M	URSP Name

Export/Import URSP

Table 2-207 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of URSPervice. For more information, see Get, Create, and Update URSPs.
key	string		Indicates the ID of URSP
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

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Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "name": "string",
      "precedence": 0,
      "routeSelectionDescriptorList": [
        {
          "routePrecedence": 0,
          "routeSelectionDescriptorComponents": [
            {
              "routeSelectionDescriptorType": "DNN",
              "value": {}
            }
          ]
        }
      ],
      "trafficDescriptors": [
        {
          "trafficDescriptorType": "CONNECTION_CAPABILITIES",
          "value": {}
        }
      ]
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

2.45 UPSI

Table 2-208 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create UPSI	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfue/upsis	See Table A-3
Export UPSI	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfue/upsis/export	See Table A-1

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Table 2-208 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Import UPSI	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfue/upsis/import	See Table A-3
Get UPSI	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfue/upsis/{upsiName}	See Table A-1
Update UPSI	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfue/upsis/{upsiName}	See Table A-2
Delete UPSI	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfue/upsis/{upsiName}	See Table A-4

Get, Create, and Update UPSIs

Table 2-209 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
name	string	M	Name of the UPSI.
plmn	Plmn	M	PLMN Identity
upsc	integer($int32) Enter a value between 0 and 65535.	M	Defines UE Policy Section Code. Enter a number between 0 and 65,535.
urspRules	string	O	Defines URSP rules.

Table 2-210 Plmn

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
mcc	string Valid Range [0-999]	M	Specifies a Mobile Country Code. enter a 2 or 3 digit number.
mnc	string Valid Range [0-999]	M	Specifies a Mobile Network Code. enter a 2 or 3 digit number.

Sample Request body structure for POST and PUT operations:

```
{
  "name": "string",
  "plmn": {
    "mcc": "string",
```


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```
    "mnc": "string"
  },
  "upsc": 0,
  "urspRules": [
    "string"
  ]
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "name": "string",
  "plmn": {
    "mcc": "string",
    "mnc": "string"
  },
  "upsc": 0,
  "urspRules": [
    "string"
  ]
}
```

Delete UPSI

Table 2-211 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
upsiName	string	M	UPSI Name

Export/Import UPSI

Table 2-212 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors:message	string		
errors:name	string		
exportData	array		Exported list of UPSI service. For more information, see Get, Create, and Update UPSIs.
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

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Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "name": "string",
      "plmn": {
        "mcc": "string",
        "mnc": "string"
      },
      "upsc": 0,
      "urspRules": [
        "string"
      ]
    }
  ],
  "sourceVersion": "string",
  "topic": "string"
}
```

2.46 Traffic Control Data

Table 2-213 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Traffic Control Data	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/trafficcontroldata	See Table A-3
Export Traffic Control Data	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/trafficcontroldata/export	See Table A-1
Import Traffic Control Data	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/trafficcontroldata/import	See Table A-3
Get Traffic Control Data	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/trafficcontroldata/{trafficControlDataName}	See Table A-1

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Table 2-213 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Update Traffic Control Data	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/trafficcontroldata/{trafficControlDataName}	See Table A-2
Delete Traffic Control Data	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/trafficcontroldata/{trafficControlDataName}	See Table A-4

Get, Create, and Update Traffic Control Data

Table 2-214 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
description	string	O	The description of the Traffic Control policy data.
flowStatus	ENUM	O	The following options are available: • ENABLED-UPLINK • ENABLED-DOWNLINK • ENABLED • DISABLED • REMOVED Enum determining what action to perform on traffic. Possible values are: [enable, disable, enable_uplink, enable_downlink] . The default value "ENABLED" shall apply, if the attribute is not present and has not been supplied previously.
muteNotif	boolean	O	Indicates whether application's start or stop notification is to be muted. The default value "FALSE" shall apply, if the attribute is not present and has not been supplied previously.
name	string	M	The name of the Traffic Control policy data.
redirectInfo	RedirectInfo	O	Redirect Information
routeToLocs	RouteToLocs	O	Route To Locs Information
tcId	string	O	Specifies the traffic control ID.

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Table 2-214 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
trafficSteeringPolIdDl	string	O	Reference to a pre-configured traffic steering policy for downlink traffic at the SMF.
trafficSteeringPolIdUl	string	O	Reference to a pre-configured traffic steering policy for uplink traffic at the SMF.
upPathChgEvent	UpPathChgEvent	O	Up Path Chg Event Information

Table 2-215 RedirectInfo

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
redirectAddressType	ENUM	O	This string provides forward-compatibility with future extensions to the enumeration but is not used to encode content defined in the present version of this API.
redirectEnabled	boolean	O	Indicates the redirect is enabled.
redirectServerAddress	string	O	Indicates the address of the redirect server.

Table 2-216 RouteToLocs

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
dnai	string		O	Identifies the location of the application.
routeInfo	RouteInfo		O	Includes the traffic routing information.
routeProfId	string		O	Identifies the routing profile Id.

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Table 2-217 RouteInfo

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
ipv4Addr	string	O	Ipv4 address of the tunnel end point in the data network.
ipv6Addr	string	O	Ipv6 address of the tunnel end point in the data network
portNumber	integer ($int32) Enter a number greater than or equal to 0	O	UDP port number of the tunnel end point in the data network.

Table 2-218 UpPathChgEvent

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
dnaiChgType	ENUM	O	The following options are available: • EARLY • EARLY_LATE • LATE Possible values are - EARLY: Early notification of UP path reconfiguration. - EARLY_LATE: Early and late notification of UP path reconfiguration. This value shall only be present in the subscription to the DNAI change event. - LATE: Late notification of UP path reconfiguration. This string provides forwardcompatibility with future extensions to the enumeration but is not used to encode content defined in the present version of this API.
notifCorreId	string	O	It is used to set the value of Notification Correlation ID in the notification sent by the SMF.
notificationUri	string	O	

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Sample Request body structure for POST and PUT operations:

```
{
  "description": "string",
  "flowStatus": "DISABLED",
  "muteNotif": true,
  "name": "string",
  "redirectInfo": {
    "redirectAddressType": "IPV4_ADDR",
    "redirectEnabled": true,
    "redirectServerAddress": "string"
  },
  "routeToLocs": [
    {
      "dnai": "string",
      "routeInfo": {
        "ipv4Addr": "string",
        "ipv6Addr": "string",
        "portNumber": 0
      },
      "routeProfId": "string"
    }
  ],
  "tcId": "string",
  "trafficSteeringPolIdDl": "string",
  "trafficSteeringPolIdUl": "string",
  "upPathChgEvent": {
    "dnaiChgType": "EARLY",
    "notifCorreId": "string",
    "notificationUri": "string"
  }
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "description": "string",
  "flowStatus": "DISABLED",
  "muteNotif": true,
  "name": "string",
  "redirectInfo": {
    "redirectAddressType": "IPV4_ADDR",
    "redirectEnabled": true,
    "redirectServerAddress": "string"
  },
  "routeToLocs": [
    {
      "dnai": "string",
      "routeInfo": {
        "ipv4Addr": "string",
        "ipv6Addr": "string",
        "portNumber": 0
      },
      "routeProfId": "string"
    }
```


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```
  ],
  "tcId": "string",
  "trafficSteeringPolIdDl": "string",
  "trafficSteeringPolIdUl": "string",
  "upPathChgEvent": {
    "dnaiChgType": "EARLY",
    "notifCorreId": "string",
    "notificationUri": "string"
  }
}
```

Delete Traffic Control Data

Table 2-219 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
trafficControlDataName	string	M	Traffic Control Data Name

Export/Import Traffic Control Data

Table 2-220 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of traffic control data service. For more information, see Get, Create, and Update Traffic Control Data.
key	string		Indicates the ID of Traffic Control Data
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "description": "string",
```


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```
      "flowStatus": "DISABLED",
      "muteNotif": true,
      "name": "string",
      "redirectInfo": {
        "redirectAddressType": "IPV4_ADDR",
        "redirectEnabled": true,
        "redirectServerAddress": "string"
      },
      "routeToLocs": [
        {
          "dnai": "string",
          "routeInfo": {
            "ipv4Addr": "string",
            "ipv6Addr": "string",
            "portNumber": 0
          },
          "routeProfId": "string"
        }
      ],
      "tcId": "string",
      "trafficSteeringPolIdDl": "string",
      "trafficSteeringPolIdUl": "string",
      "upPathChgEvent": {
        "dnaiChgType": "EARLY",
        "notifCorreId": "string",
        "notificationUri": "string"
      }
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


2.47 PCC Rule

Table 2-221 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create PCC Rule	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/pccrules	See Table A-3
Export PCC Rules	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/pccrules/export	See Table A-1
Import PCC Rule	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/pccrules/import	See Table A-3

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Table 2-221 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get PCC Rule	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/pccrules/{pccRuleName}	See Table A-1
Update PCC Rule	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/pccrules/{pccRuleName}	See Table A-2
Delete PCC Rule	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/pccrules/{pccRuleName}	See Table A-4

Get, Create, and Update PCC Rules

Table 2-222 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
afSigProtocol	ENUM	O	Indicates the protocol used for signalling between the UE and the AF. The default value "NO_INFORMATION" shall apply, if the attribute is not present and has not been supplied previously.
qosFlowUsage	ENUM	O	Indicates the QoS flow usage. The default value is not applicable for this field. Users can select GENERAL or IMS_SIG from the drop down list as per the requirement.
appId	string	O	A reference to the application detection filter configured at the UPF.
appReloc	boolean	O	Indication of application relocation possibility. The default value "NO_INFORMATION" shall apply, if the attribute is not present and has not been supplied previously.
contVer	string	O	Indicates the content version of the PCC rule.
description	string	O	The description of the PCC rule

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Table 2-222 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
flowInfos	FlowInfos	O	An array of IP flow packet filter information.
name	string	M	The name of the PCC rule
pccRuleId	string	M	Univocally identifies the PCC rule within a PDU session.
precedence	string	O	Determines the order in which this PCC rule is applied relative to other PCC rules within the same PDU session. It shall be included if the "flowInfos" attribute is included or may be included if the "appId" attribute is included when the PCF initially provisions the PCC rule.
refChgData	string	O	A reference to the ChargingData policy decision type.
refCondData	string	O	A reference to the condition data.
refQosData	string	O	A reference to the QoSData policy type decision type.
refTcData	string	O	A reference to the TrafficControlData policy decision type.
refUmData	string	O	A reference to UsageMonitoringData policy decision type.
type	ENUM	O	

Table 2-223 FlowInfos

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
ethFlowDescription	ethFlowDescription	O	Ethernet Flow Description Information
flowDescription	string	O	Indicates the details about flow. Enter a description for the flow.
flowDirection	ENUM	O	Indicates the flow direction. Select from the following options: • DOWNLINK • UPLINK • BIDIRECTIONAL • UNSPECIFIED

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Table 2-223 (Cont.) FlowInfos

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
flowLabel	string	O	The Ipv6 flow label header field.
name	string	M	Indicates the name for the flow
packFiltId	string	O	An identifier of packet filter
packetFilterUsage	boolean	O	The packet shall be sent to the UE. The default value "FALSE" shall apply, if the attribute is not present and has not been supplied previously
spi	string	O	The security parameter index of the IPSec packet.
tosTrafficClass	string	O	Contains the Ipv4 Type-of-Service and mask field or the Ipv6 Traffic-Class field and mask field.

Table 2-224 ethFlowDescription

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
destMacAddr	string enter a MAC address ,such as'3D-F2-C9-A6-B3-4F'.	O	A string indicating MAC address. Enter a valid MAC address. For example, 3D-F2-C9-A6-B3-4F
ethType	string	O	A two-octet string that represents the Ethertype, in hexadecimal representation. Each character in the string shall take a value of "0" to "9" or "A" to "F" and shall represent 4 bits. The most significant character representing the 4 most significant bits of the ethType shall appear first in the string, and the character representing the 4 least significant bits of the ethType shall appear last in the string.

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Table 2-224 (Cont.) ethFlowDescription

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
fDesc	string	O	Contains the flow description for the Uplink or Downlink IP flow. It shall be present when the Ethertype is IP.
fDir	ENUM	O	Indicates the packet filter direction. Select from the following options: • DOWNLINK • UPLINK • BIDIRECTIONAL • UNSPECIFIED
sourceMacAddr	string enter a MAC address ,such as'3D-F2-C9-A6-B3-4F'	O	Enter a source MAC Address. For example, 3D-F2-C9- A6-B3-4F
vlanTags	string	O	Customer-VLAN and/or Service-VLAN tags containing the VID, PCP/DEI fields. Each field is encoded as a two-octet string in hexadecimal representation. Each character in the string shall take a value of "0" to "9" or "A" to "F" and shall represent 4 bits. The most significant character representing the 4 most significant bits of the VID or PCF/DEI field shall appear first in the string, and the character representing the 4 least significant bits of the VID or PCF/DEI field shall appear last in the string.

Sample Request body structure for POST and PUT operations:

```
{
  "afSigProtocol": "NO_INFORMATION",
  "appId": "string",
  "appReloc": true,
  "contVer": "string",
  "description": "string",
  "flowInfos": [
```


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```
    {
      "ethFlowDescription": {
        "destMacAddr": "string",
        "ethType": "string",
        "fDesc": "string",
        "fDir": "BIDIRECTIONAL",
        "fdesc": "string",
        "fdir": "BIDIRECTIONAL",
        "sourceMacAddr": "string",
        "vlanTags": [
          "string"
        ]
      },
      "flowDescription": "string",
      "flowDirection": "BIDIRECTIONAL",
      "flowLabel": "string",
      "name": "string",
      "packFiltId": "string",
      "packetFilterUsage": true,
      "spi": "string",
      "tosTrafficClass": "string"
    }
  ],
  "name": "string",
  "pccRuleId": "string",
  "precedence": "string",
  "refChgData": [
    "string"
  ],
  "refCondData": "string",
  "refQosData": [
    "string"
  ],
  "refTcData": [
    "string"
  ],
  "refUmData": [
    "string"
  ],
  "type": "DYNAMIC"
}
```


Sample Response body structure for GET, POST, and PUT operations:


```
{
  "afSigProtocol": "NO_INFORMATION",
  "appId": "string",
  "appReloc": true,
  "contVer": "string",
  "description": "string",
  "flowInfos": [
    {
      "ethFlowDescription": {
        "destMacAddr": "string",
        "ethType": "string",
```


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```
        "fDesc": "string",
        "fDir": "BIDIRECTIONAL",
        "fdesc": "string",
        "fdir": "BIDIRECTIONAL",
        "sourceMacAddr": "string",
        "vlanTags": [
          "string"
        ]
      },
      "flowDescription": "string",
      "flowDirection": "BIDIRECTIONAL",
      "flowLabel": "string",
      "name": "string",
      "packFiltId": "string",
      "packetFilterUsage": true,
      "spi": "string",
      "tosTrafficClass": "string"
    }
  ],
  "name": "string",
  "pccRuleId": "string",
  "precedence": "string",
  "refChgData": [
    "string"
  ],
  "refCondData": "string",
  "refQosData": [
    "string"
  ],
  "refTcData": [
    "string"
  ],
  "refUmData": [
    "string"
  ],
  "type": "DYNAMIC"
}
```


Delete PCC Rule

Table 2-225 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
PCCRuleName	string	M	PCC Rule Name

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Export/Import PCC Rule s

Table 2-226 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of PCC Rule. For more information, see Get, Create, and Update PCC Rules .
key	string		Indicates the ID
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "afSigProtocol": "NO_INFORMATION",
      "appId": "string",
      "appReloc": true,
      "contVer": "string",
      "description": "string",
      "flowInfos": [
        {
          "ethFlowDescription": {
            "destMacAddr": "string",
            "ethType": "string",
            "fDesc": "string",
            "fDir": "BIDIRECTIONAL",
            "fdesc": "string",
            "fdir": "BIDIRECTIONAL",
            "sourceMacAddr": "string",
            "vlanTags": [
              "string"
            ]
          },
          "flowDescription": "string",
          "flowDirection": "BIDIRECTIONAL",
          "flowLabel": "string",
```


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```
            "name": "string",
            "packFiltId": "string",
            "packetFilterUsage": true,
            "spi": "string",
            "tosTrafficClass": "string"
          }
        ],
        "name": "string",
        "pccRuleId": "string",
        "precedence": "string",
        "refChgData": [
          "string"
        ],
        "refCondData": "string",
        "refQosData": [
          "string"
        ],
        "refTcData": [
          "string"
        ],
        "refUmData": [
          "string"
        ],
        "type": "DYNAMIC"
      }
    ],
    "key": "string",
    "sourceVersion": "string",
    "topic": "string"
}
```


2.48 PCC Rule Profile

Table 2-227 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create PCC Rule Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/pccruleprofiles	See Table A-3
Export PCC Rule Profiles	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/pccruleprofiles/export	See Table A-1
Import PCC Rule Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/pccruleprofiles/import	See Table A-3
Get PCC Rule Profile	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/pccruleprofiles/{pccRuleProfileName}	See Table A-1

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Table 2-227 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Update PCC Rule Profile	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/pccruleprofiles/{pccRuleProfileName}	See Table A-2
Delete PCC Rule Profile	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/pccruleprofiles/{pccRuleProfileName}	See Table A-4

Get, Create, and Update PCC Rule Profile

Table 2-228 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
afSigProtocol	ENUM	O	Specifies the protocol used for signaling between the UE and the AF.
qosFlowUsage	ENUM	O	Indicates the QoS flow usage. The default value is not applicable for this field. Users can select GENERAL or IMS_SIG from the drop down list as per the requirement.
appId	string	O	A reference to the application detection filter configured at the UPF.
appReloc	boolean	O	Specifies application relocation possibility.
contVer	string	O	Specifies the content version of the PCC rule.
description	string	O	Description of PCC Rule Profile.
flowInfos	FlowInfos	O	An array of IP flow packet filter information.
id	string	M	Unique identifier of PCC Rule Profile
name	string	M	Specifies the name of PCC Rule Profile.

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Table 2-228 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
precedence	string		Determines the order in which this PCC rule is applied relative to other PCC rules within the same PDU session. It shall be included if the **flowInfos** attribute is included or may be included if the **appId** attribute is included when the PCF initially provisions the PCC rule.
refChgData	string		A reference to the ChargingData policy decision type.
refCondData	string		A reference to the condition data.
refQosData	string		A reference to the QoSData policy type decision type.
refTcData	string		A reference to the TrafficControlData policy decision type.
refUmData	string		A reference to UsageMonitoringData policy decision type.
type	ENUM		Possible values are: • DYNAMIC • PREDEFINED

Table 2-229 FlowInfos

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
ethFlowDescription	ethFlowDescription		Defines a packet filter for an Ethernet flow.
flowDescription	string		Specifies the packet filters of the IP flow(s).
flowDirection	ENUM		Indicates the direction/ directions that a filter is applicable, downlink only, uplink only or both down- and uplink (bidirectional).
flowLabel	string		Ipv6 flow label header field.
name	string	M	
packFiltId	string		An identifier of packet filter.

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Table 2-229 (Cont.) FlowInfos

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
packetFilterUsage	boolean		The packet shall be sent to the UE. The default value **FALSE** shall apply, if the attribute is not present and has not been supplied previously.
spi	string		Specifies the security parameter index of the IPSec packet.
tosTrafficClass	string		Specifies the Ipv4 Type-of-Service and mask field or the Ipv6 Traffic-Class field and mask field.

Table 2-230 ethFlowDescription

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
destMacAddr	string enter a MAC address ,such as'3D-F2-C9-A6-B3-4F'.		A string indicating MAC address. Enter a valid MAC address. For example, 3D-F2-C9-A6-B3-4F
ethType	string		A two-octet string that represents the Ethertype, in hexadecimal representation. Each character in the string shall take a value of "0" to "9" or "A" to "F" and shall represent 4 bits. The most significant character representing the 4 most significant bits of the ethType shall appear first in the string, and the character representing the 4 least significant bits of the ethType shall appear last in the string.
fDesc	string		Indicates the details about flow. Enter a description for the flow.

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Table 2-230 (Cont.) ethFlowDescription

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
fDir	ENUM		Indicates the flow direction. Select from the following options: • DOWNLINK • UPLINK • BIDIRECTIONAL • UNSPECIFIED
sourceMacAddr	string enter a MAC address ,such as'3D-F2-C9-A6-B3-4F'		Enter a MAC Address. For example, 3D-F2-C9-A6-B3-4F
vlanTags	string		Customer-VLAN and/or Service-VLAN tags containing the VID, PCP/DEI fields. Each field is encoded as a two-octet string in hexadecimal representation. Each character in the string shall take a value of "0" to "9" or "A" to "F" and shall represent 4 bits. The most significant character representing the 4 most significant bits of the VID or PCF/DEI field shall appear first in the string, and the character representing the 4 least significant bits of the VID or PCF/DEI field shall appear last in the string.

Sample Request body structure for POST and PUT operations:

```
{
  "afSigProtocol": "NO_INFORMATION",
  "appId": "string",
  "appReloc": true,
  "contVer": "string",
  "description": "string",
  "flowInfos": [
    {
      "ethFlowDescription": {
        "destMacAddr": "string",
        "ethType": "string",
        "fDesc": "string",
        "fDir": "BIDIRECTIONAL",
```


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```
        "fdesc": "string",
        "fdir": "BIDIRECTIONAL",
        "sourceMacAddr": "string",
        "vlanTags": [
          "string"
        ]
      },
      "flowDescription": "string",
      "flowDirection": "BIDIRECTIONAL",
      "flowLabel": "string",
      "name": "string",
      "packFiltId": "string",
      "packetFilterUsage": true,
      "spi": "string",
      "tosTrafficClass": "string"
    }
  ],
  "id": "string",
  "name": "string",
  "precedence": "string",
  "refChgData": [
    "string"
  ],
  "refCondData": "string",
  "refQosData": [
    "string"
  ],
  "refTcData": [
    "string"
  ],
  "refUmData": [
    "string"
  ],
  "type": "DYNAMIC"
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
"date": "string",
"errors": [
  {
    "message": "string",
    "name": "string"
  }
],
"exportData": [
  {
    "afSigProtocol": "NO_INFORMATION",
    "appId": "string",
    "appReloc": true,
    "contVer": "string",
    "description": "string",
    "flowInfos": [
```


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```
            {
              "ethFlowDescription": {
                "destMacAddr": "string",
                "ethType": "string",
                "fDesc": "string",
                "fDir": "BIDIRECTIONAL",
                "fdesc": "string",
                "fdir": "BIDIRECTIONAL",
                "sourceMacAddr": "string",
                "vlanTags": [
                  "string"
                ]
              },
              "flowDescription": "string",
              "flowDirection": "BIDIRECTIONAL",
              "flowLabel": "string",
              "name": "string",
              "packFiltId": "string",
              "packetFilterUsage": true,
              "spi": "string",
              "tosTrafficClass": "string"
            }
          ],
          "id": "string",
          "name": "string",
          "precedence": "string",
          "refChgData": [
            "string"
          ],
          "refCondData": "string",
          "refQosData": [
            "string"
          ],
          "refTcData": [
            "string"
          ],
          "refUmData": [
            "string"
          ],
          "type": "DYNAMIC"
        }
      ],
      "key": "string",
      "sourceVersion": "string",
      "topic": "string"
    }
```


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Delete PCC Rule Profile

Table 2-231 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
PCCRuleProfileName	string	M	PCC Rule Profile Name

Export/Import PCC Rule Profile

Table 2-232 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of PCC Rule Profile. For more information, see Get, Create, and Update PCC Rule Profile .
key	string		Indicates the ID
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "afSigProtocol": "NO_INFORMATION",
      "appId": "string",
      "appReloc": true,
      "contVer": "string",
      "description": "string",
      "flowInfos": [
        {
          "ethFlowDescription": {
            "destMacAddr": "string",
            "ethType": "string",
            "fDesc": "string",
```


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```
            "fDir": "BIDIRECTIONAL",
            "fdesc": "string",
            "fdir": "BIDIRECTIONAL",
            "sourceMacAddr": "string",
            "vlanTags": [
              "string"
            ]
          },
          "flowDescription": "string",
          "flowDirection": "BIDIRECTIONAL",
          "flowLabel": "string",
          "name": "string",
          "packFiltId": "string",
          "packetFilterUsage": true,
          "spi": "string",
          "tosTrafficClass": "string"
        }
      ],
      "id": "string",
      "name": "string",
      "precedence": "string",
      "refChgData": [
        "string"
      ],
      "refCondData": "string",
      "refQosData": [
        "string"
      ],
      "refTcData": [
        "string"
      ],
      "refUmData": [
        "string"
      ],
      "type": "DYNAMIC"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


2.49 Condition Data

Table 2-233 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Condition Data	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/conditiondata	See Table A-3

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Table 2-233 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export Condition Data	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/conditiondata/export	See Table A-1
Import Condition Data	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/conditiondata/import	See Table A-3
Get Condition Data	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/conditiondata/{conditionDataName}	See Table A-1
Update Condition Data	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/conditiondata/{conditionDataName}	See Table A-2
Delete Condition Data	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/conditiondata/{conditionDataName}	See Table A-4

Get, Create, and Update Condition Data

Table 2-234 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
activationTime	string, example : YYYY-MM-DDTHH:MM:SS	O	The time when the decision data shall be activated.
condId	string	O	Specifies the condition ID.
deactivationTime	string example : YYYY-MM-DDTHH:MM:SS	O	The time when the decision data shall be deactivated.
description	string	O	The description of the Condition Data policy data.
name	string	M	The name of the Condition Data policy data.

Sample Request body structure for POST and PUT operations:

```
{
  "activationTime": "YYYY-MM-DDTHH:MM:SS",
  "condId": "string",
  "deactivationTime": "YYYY-MM-DDTHH:MM:SS",
```


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```
  "description": "string",
  "name": "string"
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "activationTime": "YYYY-MM-DDTHH:MM:SS",
      "condId": "string",
      "deactivationTime": "YYYY-MM-DDTHH:MM:SS",
      "description": "string",
      "name": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

Delete Condition Data

Table 2-235 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
conditionDataName	string	M	The name of the Condition Data policy data.

Export/Import Condition Data

Table 2-236 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of condition data. For more information, see Get, Create, and Update Condition Data .
key	string		Indicates the ID

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Table 2-236 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "activationTime": "YYYY-MM-DDTHH:MM:SS",
      "condId": "string",
      "deactivationTime": "YYYY-MM-DDTHH:MM:SS",
      "description": "string",
      "name": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

2.50 Charging Data

Table 2-237 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Charging Data	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/chargingdata	See Table A-3
Export Charging Data	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/chargingdata/export	See Table A-1

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Table 2-237 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Import Charging Data	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/chargingdata/import	See Table A-3
Get Charging Data	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/chargingdata/{chargingDataName}	See Table A-1
Update Condition Data	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/chargingdata/{chargingDataName}	See Table A-2
Delete Charging Data	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfsm/chargingdata/{chargingDataName}	See Table A-4

Get, Create, and Update Charging Data

Table 2-238 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
afChargingIdentifiercgiList	integer ($int64), Enter a value between 0 and 4294967295	O	Univocally identifies the charging control policy data within a PDU session.
appSvcProvId	string	O	Indicates the application service provider identity.
chgId	string	M	Specifies the charging id.
description	string	O	The description of the Charging Data.

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Table 2-238 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
meteringMethod	ENUM	O	The following options are available • DURATION • VOLUME • DURATION_VOLUME • EVENT Defines what parameters shall be metered for offline charging. If the attribute is not present but it has been supplied previously, the previous information remains valid. If the attribute is not present and it has not been supplied previously or the attribute has been supplied previously but the attribute is set to NULL, the metering method pre-configured at the SMF is applicable as default metering method.
name	string	M	The name of the Charging Data.
offline	boolean	O	Indicates the offline charging is applicable to the PDU session or PCC rule. The default value "FALSE" shall apply, if the attribute is not present and has not been supplied previously. (NOTE)
online	boolean	O	Indicates the online charging is applicable to the PDU session or PCC rule. The default value "FALSE" shall apply, if the attribute is not present and has not been supplied previously. (NOTE)
ratingGroup	integer ($int64), Enter a value between 0 and 4294967295	O	The charging key for the PCC rule used for rating purposes.

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Table 2-238 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
reportingLevel	ENUM	O	The following options are available: • SER_ID_LEVEL • RAT_GR_LEVEL • SPON_CON_LEVEL Defines on what level the SMF reports the usage for the related PCC rule. If the attribute is not present but it has been supplied previously, the previous information remains valid. If the attribute is not present and it has not been supplied previously or the attribute has been supplied previously but it is set to NULL, the reporting level pre-configured at the SMF is applicable as default reporting level.
sdfHandl	boolean		
serviceId	integer ($int64), Enter a value between 0 and 4294967295	O	Indicates the identifier of the service or service component the service data flow in a PCC rule relates to.
sponsorId	string	O	Indicates the sponsor identity.

Sample Request body structure for POST and PUT operations:

```
{
  "afChargingIdentifier": 0,
  "appSvcProvId": "string",
  "chgId": "string",
  "description": "string",
  "meteringMethod": "DURATION",
  "name": "string",
  "offline": true,
  "online": true,
  "ratingGroup": 0,
  "reportingLevel": "RAT_GR_LEVEL",
  "sdfHandl": true,
  "serviceId": 0,
  "sponsorId": "string"
}
```


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Sample Response body structure for GET, POST, and PUT operations:


```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "afChargingIdentifier": 0,
      "appSvcProvId": "string",
      "chgId": "string",
      "description": "string",
      "meteringMethod": "DURATION",
      "name": "string",
      "offline": true,
      "online": true,
      "ratingGroup": 0,
      "reportingLevel": "RAT_GR_LEVEL",
      "sdfHandl": true,
      "serviceId": 0,
      "sponsorId": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


Delete Charging Data

Table 2-239 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
chargingDataName	string	M	Charging Data Name

Export/Import Charging Data

Table 2-240 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of charging data. For more information, see Get, Create, and Update Charging Data.

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Table 2-240 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
key	string		Indicates the ID
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "afChargingIdentifier": 0,
      "appSvcProvId": "string",
      "chgId": "string",
      "description": "string",
      "meteringMethod": "DURATION",
      "name": "string",
      "offline": true,
      "online": true,
      "ratingGroup": 0,
      "reportingLevel": "RAT_GR_LEVEL",
      "sdfHandl": true,
      "serviceId": 0,
      "sponsorId": "string"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


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2.51 Service Area Restriction

Table 2-241 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Service Area Restriction	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfam/serviceareastrictions	See Table A-3
Export All Service Area Restrictions	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfam/serviceareastrictions/export	See Table A-1
Import All Service Area Restrictions	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfam/serviceareastrictions/import	See Table A-3
Get Service Area Restriction	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfam/serviceareastrictions/{serviceAreaRestrictionName}	See Table A-1
Update Service Area Restriction	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfam/serviceareastrictions/{serviceAreaRestrictionName}	See Table A-2
Delete Service Area Restriction	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/pcfam/serviceareastrictions/{serviceAreaRestrictionName}	See Table A-4

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Get, Create, and Update Service Area Restriction s

Table 2-242 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
areas	ServiceAreaRestrictionAreas	O	A list of Areas. These areas are: • allowed areas if RestrictionType is "ALLOWED_AREAS" • not allowed areas if RestrictionType is "NOT_ALLOWED_AREAS
description	Number	O	Specifies description of the Service Area Restriction
maxNumOfTAs	boolean	O	Specifies maximum number of TAs
name	string	M	Specifies name of the Service Area Restriction
restrictionType	ENUM	O	Possible values are: • ALLOWED_AREAS • NOT_ALLOWED_AREAS

Table 2-243 ServiceAreaRestrictionAreas

Field Name	Data Type	Description
areaCodes	String	Specifies area codes.
tacs	String	List of Type Allocation Codes. A decimal number between 0 and 65535.

Sample Request body structure for POST/PUT operation:

```
{
  "areas": [
    {
      "areaCodes": "string",
      "tacs": [
        "string"
      ]
    }
  ],
  "description": "string",
  "maxNumOfTAs": 0,
  "name": "string",
  "restrictionType": "ALLOWED_AREAS"
}
```


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Sample Response body structure for GET, POST, and PUT operations:

```
[
  {
    "date": "string",
    "errors": [
      {
        "message": "string",
        "name": "string"
      }
    ],
    "exportData": [
      {
        "areas": [
          {
            "areaCodes": "string",
            "tacs": [
              "string"
            ]
          }
        ],
        "description": "string",
        "maxNumOfTAs": 0,
        "name": "string",
        "restrictionType": "ALLOWED_AREAS"
      }
    ],
    "key": "string",
    "sourceVersion": "string",
    "topic": "string"
  }
]
```

Delete Service Area Restriction s

Table 2-244 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
serviceAreaRestrictionName	string	M	Service Area Restriction Name

Export/Import Service Area Restrictions

Table 2-245 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp

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Table 2-245 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
exportData	array		Exported list of service area restrictions. For more information, see Get, Create, and Update Service Area Restrictions
key	string		Indicates the ID
sourceVersion	string		System version of product from which data is exported
systemVersion			
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
[
  {
    "date": "string",
    "errors": [
      {
        "message": "string",
        "name": "string"
      }
    ],
    "exportData": [
      {
        "areas": [
          {
            "areaCodes": "string",
            "tacs": [
              "string"
            ]
          }
        ],
        "description": "string",
        "maxNumOfTAs": 0,
        "name": "string",
        "restrictionType": "ALLOWED_AREAS"
      }
    ],
    "key": "string",
    "sourceVersion": "string",
    "topic": "string"
  }
]
```


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2.52 PCF Presence Reporting Area

Table 2-246 Supported REST APIs

HTTP Method or Custom Operation	Description	Resource URI	Possible Result Code
POST	Create Presence Reporting Area	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/pras	See Table A-3
GET	Export Presence Reporting Area	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/pras/export	See Table A-1
POST	Import Presence Reporting Area	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/pras/import	See Table A-3
GET	Get Presence Reporting Area	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/pras/{presenceReportingAreaName}	See Table A-1
PUT	Update Presence Reporting Area	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/pras/{presenceReportingAreaName}	See Table A-2
DELETE	Delete Presence Reporting Area	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/pras/{presenceReportingAreaName}	See Table A-4

Get, Create, AND Update Presence Reporting Areas

Table 2-247 Request/Response Body Parameters GET, PUT, and POST operations

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
ecgiList	PresenceReportingAreaEcgiList	O	Represents the list of tracking areas that constitutes the area. This IE shall be present if the subscription or the event report is for tracking UE presence in the tracking areas. For non 3GPP access the TAI shall be the N3GPP TAI.

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Table 2-247 (Cont.) Request/Response Body Parameters GET, PUT, and POST operations

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
globalRanNodeIdList	PresenceReportingAreaglobalRanNodeIdList	O	Represents the list of NG RAN node identifiers that constitutes the area. This IE shall be present if the Area of Interest subscribed is a list of NG RAN node identifiers.
name	string	M	The unique name assigned to the PRA.
praId	String	M	The unique identifying number of the PRA list. The ID must be numeric value between 0 and 16777125.
ncgiList	PresenceReportingAreaNcgiList	O	Represents the list of NR cell Ids that constitutes the area. This IE shall be present if the Area of Interest subscribed is a list of NR cell Ids.
presenceState	ENUM	O	Indicates whether the UE is inside or outside of the area of interest (e.g presence reporting area or the LADN area), or if the presence reporting area is inactive in the serving node. Select any one of the following values: • IN_AREA : Indicates that the UE is inside or enters the presence reporting area. • OUT_OF_AREA : Indicates that the UE is outside or leaves the presence reporting area. • UNKNOWN : Indicates it is unknown whether the UE is in the presence reporting area or not. • INACTIVE : Indicates that the presence reporting area is inactive in the serving node.

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Table 2-247 (Cont.) Request/Response Body Parameters GET, PUT, and POST operations

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
trackingAreaList	PresenceReportingAreaTrackingAreaList	O	Represents the list of tracking areas that constitutes the area. This IE shall be present if the subscription or the event report is for tracking UE presence in the tracking areas. For non 3GPP access the TAI shall be the N3GPP TAI.

Table 2-248 PresenceReportingAreaEcgiList

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
ecgiList. eutraCellId	String, enter a 7 digit hexadecimal value	M	28-bit string identifying an E-UTRA Cell Id as specified in hexadecimal representation. Each character in the string shall take a value of "0" to "9" or "A" to "F" and shall represent 4 bits. The most significant character representing the 4 most significant bits of the Cell Id shall appear first in the string, and the character representing the 4 least significant bit of the Cell Id shall appear last in the string. Pattern: '^[A-Fa-f0-9]{7}$' Example: An E-UTRA Cell Id 0x5BD6007 shall be encoded as "5BD6007".
ecgiList. plmnId	PlmnId	M	PLMN Identity

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Table 2-249 PresenceReportingAreaglobalRanNodeIdList

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
globalRanNodeIdList.gNbId	GNbId		This field is included if the RAN Node Id represents a gNB. When present, this field contains the identifier of the gNB.
globalRanNodeIdList.n3IwfId	string		This field is included if the RAN node belongs to non 3GPP access (i.e a N3IWF). If included, this field contains the FQDN of the N3IWF.
globalRanNodeIdList.ngeNbId	string		This field is included if the RAN Node Id represents a NG-eNB. When present, this field contains the identifier of an NG-eNB.
globalRanNodeIdList.plmnId	PlmnId	M	Indicates the identity of the PLMN that the RAN node belongs to.

Table 2-250 PlmnId

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
PlmnId.mcc	String	M	Specifies a Mobile Country Code of the PLMN. enter a 2 or 3 digit number.
PlmnId.mnc	Stirng	M	Specifies a Mobile Network Code of the PLMN. enter a 2 or 3 digit number.

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Table 2-251 PresenceReportingAreaNcgiList

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
ncgiList.nrCellId	String, enter a 9 digit hexadecimal value	M	36-bit string identifying an NR Cell Id as specified in hexadecimal representation. Each character in the string shall take a value of "0" to "9" or "A" to "F" and shall represent 4 bits. The most significant character representing the 4 most significant bits of the Cell Id shall appear first in the string, and the character representing the 4 least significant bit of the Cell Id shall appear last in the string. Pattern: '^[A-Fa-f0-9]{9}$' Example: An NR Cell Id 0x225BD6007 shall be encoded as "225BD6007".
ncgiList.plmnId	PlmnId	M	PLMN Identity

Table 2-252 PresenceReportingAreaTrackingAreaList

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
trackingAreaList. plmnId	PlmnId		PLMN Identity

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Table 2-252 (Cont.) PresenceReportingAreaTrackingAreaList

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
trackingAreaList.tac	string, enter a 4 or 6 digit hexadecimal value		28-bit string identifying an E-UTRA Cell Id as specified, in hexadecimal representation. Each character in the string shall take a value of "0" to "9" or "A" to "F" and shall represent 4 bits. The most significant character representing the 4 most significant bits of the Cell Id shall appear first in the string, and the character representing the 4 least significant bit of the Cell Id shall appear last in the string. Pattern: '^[A-Fa-f0-9]{7}$' Example: An E-UTRA Cell Id 0x5BD6007 shall be encoded as "5BD6007".

Sample Request body structure for POST and PUT operations:

```
{
  "ecgiList": [
    {
      "eutraCellId": "string",
      "plmnId": {
        "mcc": "string",
        "mnc": "string"
      }
    }
  ],
  "globalRanNodeIdList": [
    {
      "gNbId": {
        "bitLength": 0,
        "gNbValue": "string"
      },
      "n3IwfId": "string",
      "ngeNbId": "string",
      "plmnId": {
        "mcc": "string",
        "mnc": "string"
      }
    }
```


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```
  ],
  "name": "string",
  "ncgiList": [
    {
      "nrCellId": "string",
      "plmnId": {
        "mcc": "string",
        "mnc": "string"
      }
    }
  ],
  "praId": "string",
  "presenceState": "INACTIVE",
  "trackingAreaList": [
    {
      "plmnId": {
        "mcc": "string",
        "mnc": "string"
      },
      "tac": "string"
    }
  ]
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "ecgiList": [
        {
          "eutraCellId": "string",
          "plmnId": {
            "mcc": "string",
            "mnc": "string"
          }
        }
      ],
      "globalRanNodeIdList": [
        {
          "gNbId": {
            "bitLength": 0,
            "gNbValue": "string"
          },
          "n3IwfId": "string",
          "ngeNbId": "string",
          "plmnId": {
            "mcc": "string",
```


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```
            "mnc": "string"
          }
        }
      ],
      "name": "string",
      "ncgiList": [
        {
          "nrCellId": "string",
          "plmnId": {
            "mcc": "string",
            "mnc": "string"
          }
        }
      ],
      "praId": "string",
      "presenceState": "INACTIVE",
      "trackingAreaList": [
        {
          "plmnId": {
            "mcc": "string",
            "mnc": "string"
          },
          "tac": "string"
        }
      ]
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


Delete Presence Reporting Areas

Table 2-253 Request/Response Body Parameters for DELETE operation

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
presenceReportingAreaName	string	M	Presence Reporting Area Name

Export/Import Presence Reporting Areas

Table 2-254 Request/Response Body Parameters for Export/Import operations

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp

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Table 2-254 (Cont.) Request/Response Body Parameters for Export/Import operations

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
exportData	array		Exported list of presence reporting area. For more information, see Get, Create, AND Update Presence Reporting Areas.
key	string		Indicates the ID
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "ecgiList": [
        {
          "eutraCellId": "string",
          "plmnId": {
            "mcc": "string",
            "mnc": "string"
          }
        }
      ],
      "globalRanNodeIdList": [
        {
          "gNbId": {
            "bitLength": 0,
            "gNbValue": "string"
          },
          "n3IwfId": "string",
          "ngeNbId": "string",
          "plmnId": {
            "mcc": "string",
            "mnc": "string"
          }
        }
      ],
      "name": "string",
```


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```
      "ncgiList": [
        {
          "nrCellId": "string",
          "plmnId": {
            "mcc": "string",
            "mnc": "string"
          }
        }
      ],
      "praId": "string",
      "presenceState": "INACTIVE",
      "trackingAreaList": [
        {
          "plmnId": {
            "mcc": "string",
            "mnc": "string"
          },
          "tac": "string"
        }
      ]
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


2.53 Policy Table

Table 2-255 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get Policy Tables	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/policytables	See Table A-1
Create Policy Tables	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/policytables	See Table A-3
Export Policy Tables	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/policytables/export	See Table A-1
Import Policy Tables	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/policytables/import	See Table A-3

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Table 2-255 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Delete Policy Table	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/policytables/{serviceName}/{policyTableName}	See Table A-4

Get and Create Policy Table s

Table 2-256 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
columns	array	O	Specifies the column of a policy table.
name	String	O	Specifies the name of a policy table.
description	name	O	Specifies the description of a policy table.
rows	array	O	Specifies the rows of a policy table.

Sample Request body structure for POST operation:

```
[
  {
    "columns": [
      {
        "dataType": "accessType",
        "isKey": true,
        "name": "string"
      }
    ],
    "description": "string",
    "name": "string",
    "rows": [
      {}
    ],
    "serviceName": "string",
    "serviceType": "string"
  }
]
```

Sample Response body structure for GET and POST operations:

```
{
  "date": "string",
  "errors": [
```


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```
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "columns": [
        {
          "dataType": "accessType",
          "isKey": true,
          "name": "string"
        }
      ],
      "description": "string",
      "name": "string",
      "rows": [
        {}
      ],
      "serviceName": "string"
    }
  ],
  "sourceVersion": "string",
  "topic": "string"
}
```


Delete Policy Table s

Table 2-257 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
policyTableName	string	M	Policy Table Name
serviceName	string	M	Service Name

Export and Import Policy Tables

The following table describes the request and response body parameters for Import and Export operations:

Table 2-258 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors:message	string		Error message.
errors:name	string		Error name.
exportData	array		Exported list of policy tables. For more information, see Get and Create Policy Table s.

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Table 2-258 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Supported Actions for Importing Policy Tables

The following table describes the actions supported by Policy when the user imports Policy Tables:

Table 2-259 Supported Actions for Importing Policy Tables

Action	Description
ignore	On selecting the `ignore` option, no changes are made to the existing Policy Table. The Policy Table in the imported file is ignored or skipped. No changes are made to the UUIDs and existing policies remain unaffected with this option.
retain	On selecting the `retain` option, no changes are made to the existing Policy Table. The Policy Table in the imported file is ignored or skipped. No changes are made to the UUIDs and existing policies remain unaffected with this option.
replace	On selecting the `replace` option, the existing Policy Table is completely replaced with the Policy table in the imported file. Since UUIDs are re-generated for rows and columns, the user needs to update the existing policies that use the Policy Table being replaced with the new one.
merge	On selecting the Merge option, rows of the existing Policy Table are merged with the rows of the Policy table in the imported file only if the schema for key and non-key columns is same for both the Policy Tables. All rows of the existing table with conflict are replaced with the new rows from the imported table. **Note**: Two rows are considered to be in conflict when they have same values for the Key columns. In case of a conflict, the rows of the existing Policy Table are replaced with the rows of the new Policy Table. In this case, the UUIDs remain unaffected and do not impact the existing policies.

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
```


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```
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "columns": [
        {
          "dataType": "accessType",
          "isKey": true,
          "name": "string"
        }
      ],
      "description": "string",
      "name": "string",
      "rows": [
        {}
      ],
      "serviceName": "string"
    }
  ],
  "sourceVersion": "string",
  "topic": "string"
}
```

2.54 Policy Counter Id

Table 2-260 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Policy Control Id	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/policycounterids	See Table A-3
Export Policy Control Id	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/policycounterids/export	See Table A-1
Import Policy Control Id	POST	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/policycounterids/import	See Table A-3
Get Policy Control Id	GET	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/policycounterids/{policyCounterIdName}	See Table A-1
Update Policy Control Id	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/policycounterids/{policyCounterIdName}	See Table A-2

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Table 2-260 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Delete Policy Control Id	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/common/policycounterids/{policyCounterIdName}	See Table A-4

Get, Create, and Update Policy Counter Id s

Table 2-261 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
defaultStatus	string	O	Specifies the default status of Policy Counter Id.
desc	string	O	Specifies the description of Policy Counter Id.
id	string	O	Specifies the ID of Policy Counter Id.
name	string	M	Specifies the name of Policy Counter Id.

Sample Request body structure for POST and PUT operations:

```
[
  {
    "columns": [
      {
        "dataType": "accessType",
        "isKey": true,
        "name": "string"
      }
    ],
    "description": "string",
    "name": "string",
    "rows": [
      {}
    ],
    "serviceName": "string",
    "serviceType": "string"
  }
]
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "date": "string",
  "errors": [
    {
```


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```
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "columns": [
        {
          "dataType": "accessType",
          "isKey": true,
          "name": "string"
        }
      ],
      "description": "string",
      "name": "string",
      "rows": [
        {}
      ],
      "serviceName": "string"
    }
  ],
  "sourceVersion": "string",
  "topic": "string"
}
```

Delete Policy Counter Id s

Table 2-262 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
policyControlIdName	string	M	Policy Counter Id's Name

Export/Import Policy Counter Id s

Table 2-263 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of policy control id. For more information, see Get, Create, and Update Policy Counter Id s .
key	string		Indicates the ID
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

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Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "columns": [
        {
          "dataType": "accessType",
          "isKey": true,
          "name": "string"
        }
      ],
      "description": "string",
      "name": "string",
      "rows": [
        {}
      ],
      "serviceName": "string"
    }
  ],
  "sourceVersion": "string",
  "topic": "string"
}
```

2.55 Diameter Settings

This section describes the available service URIs to retrieve and update diameter settings.

Table 2-264 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get Diameter Settings	GET	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/settings	See Table A-1
Update Diameter Settings	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/settings	See Table A-2
Export Diameter Settings	GET	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/settings/export	See Table A-1
Import Diameter Settings	POST	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/settings/import	See Table A-3

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Get and Update Operations

This section describes the body parameters for APIs for diameter settings.

Table 2-265 Request and Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
congestionControl	DiamSettingsCongestionControl	O	Specifies the congestion control configurations.
overloadControl	DiamSettingsOverloadControl	O	Specifies the overload control configurations.
timer	DiamSettingsTimer	O	Specifies the timer configurations for Diameter Gateway.
transport	DiamSettingsTransport	O	Specifies the transport protocol configurations for Diameter Gateway.
topologyhiding	DiamSettingTopologyhiding	O	Specifies the topology hiding configurations for Diameter Gateway.
messageTimers	DiamSettingsMessageTimers	O	Specifies the request timer configurations for Diameter applications.
advancedSettings	DiamAdvancedSettings	O	Specifies the list of key/ value pair.

Table 2-266 DiamSettingsCongestionControl

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
congestionLoadSheddingProfile	string	O	Specifies the load shedding profile name for congestion control.
congestionMessagePriorityProfile	string	O	Specifies the message priority profile name for congestion control.

Table 2-267 DiamSettingsOverloadControl

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
overloadLoadSheddingProfile	string	Optional	Specifies the load shedding profile name for overload control.
overloadMessagePriorityProfile	string	Optional	Specifies the message priority profile name for overload control.

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Table 2-268 DiamSettingsTimer

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
connectionTimeout	Number	M	Defines the connection timeout interval in seconds. The default value is 3 seconds.
reconnectDelay	Number	M	Defines the time frame to delay before attempting to reconnect after a connection failure in seconds. The default value is 3 seconds.
responseTimeout	Number	M	Defines the response timeout interval in milliseconds. The default value is 5000 ms.
watchdogInterval	Number	M	Defines the watchdog interval in seconds. The default value is 6 seconds.

Table 2-269 DiamSettingsTransport

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
protocol	string, Enum: Array[]	O	Specifies the Diameter protocol. The values: [TCP, SCTP].

Table 2-270 DiamSettingsMessageTimers

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
appId	intger	O	Specifies the diameter application ID for which topology hiding feature is to be enabled. Example: 16777236
appResponseTimeoutValue	integer	O	Specifies the application response timeout value in milliseconds. Minimum: 3 Maximum: 2147483647 Example: 5000

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Table 2-270 (Cont.) DiamSettingsMessageTimers

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
cmdCodeResponseTimeoutValueMap	Map(String:String)	O	Specifies Command Code Response Timeout for AAR, STR, RAR and ASR.

Table 2-271 DiamAdvancedSettings

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
key	string	O	Specifies the key name.
value	string	O	Specifies the value of the key.

Sample Request body structure for GET and PUT operations:

```
{
  "timer": {
    "reconnectDelay": "3",
    "responseTimeout": "5000",
    "connectionTimeout": "3",
    "watchdogInterval": "6"
  },
  "transport": {
    "protocol": "TCP"
  },
  "congestionControl": {
    "congestionLoadSheddingProfile": "string",
    "congestionMessagePriorityProfile": "string"
  },
  "overloadControl": {
    "overloadLoadSheddingProfile": "string",
    "overloadMessagePriorityProfile": "string"
  },
  "topologyhiding": {
    "EnableTopologyHiding": true,
    "AppsToHide": [
      "Gx"
    ]
  },
  "messageTimers": [
    {
      "appId": 16777236,
      "appResponseTimeoutValue": 5000,
      "cmdCodeResponseTimeoutValueMap": {
        "258": 5000,
        "265": 5000,
```


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```
        "272": 5000,
        "274": 5000,
        "275": 5000,
        "8388635": 5000,
        "8388636": 5000,
        "8388637": 5000
      }
    }
  ],
  "advancedSettings": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

Export and Import Diameter Settings

The following table describes the request and response parameters for export and import operations:

Table 2-272 Request and Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string	Optional	Specifies the current timestamp.
errors.message	string	Optional	The reason of the failure.
error.name	string	Optional	Name of the components that the user is unable to export or import successfully.
exportData	array	Mandatory	Exported list of diameter settings. For more information, see Get and Update Operations.
sourceVersion	string	Optional	System version of product from which data is exported.
topic	string	Mandatory	Topic of each managed object.

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
```


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```
  "exportData": {
    "advancedSettings": [
      {
        "key": "string",
        "value": "string"
      }
    ],
    "congestionControl": {
      "congestionLoadSheddingProfile": "string",
      "congestionMessagePriorityProfile": "string"
    },
    "messageTimers": [
      {
        "appId": 0,
        "appResponseTimeoutValue": 0,
        "cmdCodeResponseTimeoutValueMap": {
          "258": 0,
          "265": 0,
          "274": 0,
          "275": 0
        }
      }
    ],
    "overloadControl": {
      "overloadLoadSheddingProfile": "string",
      "overloadMessagePriorityProfile": "string"
    },
    "timer": {
      "connectionTimeout": 3,
      "reconnectDelay": 3,
      "responseTimeout": 5,
      "watchdogInterval": 6
    },
    "topologyhiding": {
      "AppsToHide": [
        "All"
      ],
      "EnableTopologyHiding": true
    },
    "transport": {
      "protocol": "SCTP"
    }
  },
  "sourceVersion": "string",
  "topic": "string"
}
```


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2.56 Diameter Routing Table

Table 2-273 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export Diameter Routing Table	GET	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/routingTable/export	See Table A-1
Import Diameter Routing Table	POST	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/routingTable/import	See Table A-3
Get Diameter Routing Table	GET	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/routingTable	See Table A-1
Update Diameter Routing Table	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/routingTable	See Table A-2

Get and Update Operations

Table 2-274 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
defaultRoute			
routeTable			

Table 2-275 defaultRoute

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
serverID	string	O	

Table 2-276 routeTable

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
appIDs			
hosts	string		
name	string	O	
priority	string	O	
realms	string		
type	Realm		

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Sample Request body structure for PUT operations:

```
"defaultRoute": {
    "serverId": "string"
  },
  "routeTable": [
    {
      "appIds": [
        "All"
      ],
      "hosts": [
        "string"
      ],
      "name": "string",
      "priority": "string",
      "realms": [
        "string"
      ],
      "serverIds": [
        "string"
      ],
      "type": "Host"
    }
  ]
}
```

Sample Response body structure for GET and PUT operations:

```
{
  "defaultRoute": {
    "serverId": "string"
  },
  "routeTable": [
    {
      "appIds": [
        "All"
      ],
      "hosts": [
        "string"
      ],
      "name": "string",
      "priority": "string",
      "realms": [
        "string"
      ],
      "serverIds": [
        "string"
      ],
      "type": "Host"
    }
  ]
}
```


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Export/Import Diameter Routing Table

Table 2-277 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of diamteter routing table. For more information, see Get and Update Operations.
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "exportData": {
    "defaultRoute": {
      "serverId": "string"
    },
    "routeTable": [
      {
        "appIds": [
          "All"
        ],
        "hosts": [
          "string"
        ],
        "name": "string",
        "priority": "string",
        "realms": [
          "string"
        ],
        "serverIds": [
          "string"
        ],
        "type": "Host"
      }
    ]
  },
  "sourceVersion": "string",
  "topic": "string"
}
```


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2.57 Data Sources

Table 2-278 Supported REST APIs

Create Data Sources	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get All (Export) Data Sources	POST	{apiRoot}/oc-cnpolicy-configuration/v1/datasources	See Table A-3
Import Data Sources	GET	{apiRoot}/oc-cnpolicy-configuration/v1/datasources/export	See Table A-1
Get Data Sources	POST	{apiRoot}/oc-cnpolicy-configuration/v1/datasources/import	See Table A-3
Update Data Sources	GET	{apiRoot}/oc-cnpolicy-configuration/v1/datasources/{datasourceName}	See Table A-1
Delete Data Sources	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/datasources/{datasourceName}	See Table A-2
Description	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/datasources/{datasourceName}	See Table A-4

Get, Create, and Update Data Sources

Table 2-279 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
admin_state	boolean	O	when value is set to true, datasource (Sy) interaction takes place. **Default Value**: true
description	String	O	Details about the data source.
enable_subscription	boolean	O	Indicates whether MPE needs to subscribe to notifications from SH. **Default Value**: true
name	String	O	Data Source Name
ocs_from_peer_nodes	boolean	O	Selecting diameter peer nodes as primary, secondary, tertiary, and quaternary servers for Sy data source type.

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Table 2-279 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
primary_server	array	M	Primary data source server. The LDAP connection will be established with primary data source.
quaternary_server	array	O	Quaternary data source server. If primary , secondary and tertiary are not reachable then LDAP connection will be established with tertiary (if available) .
read_connection	number	O	Number of read connections established with data source.
realm	string	O	Defines the realm of the primary and optional secondary servers to connect (required).
refPeerNodePrimary	string	O	Primary diameter peer node server.
refPeerNodeQuaternary	string	O	Quaternary diameter peer node server.
refPeerNodeSecondary	string	O	Secondary diameter peer node server.
refPeerNodeTertiary	string	O	Tertiary diameter peer node server.
search_criteria	array	O	The criteria on which the data source search will be performed.
search_filter	array	O	
secondary_server	array	O	Secondary data source server. If Primary server is not reachable, then LDAP connection will be established with secondary (if available).
tertiary_server	array	O	Tertiary data source server. If primary and secondary are not reachable, then LDAP connection will be established with tertiary (if available) .
timer_profile	string	O	
type	string	O	Type of data source. Possible values are: Sy and LDAP
use_notif_eff	boolean	O	Specifies the User Data Request / Answer will allow multiple data references, Service Indications, and Identity Sets. The User Data Answer will be able to combine DataReference items resulting in the User Data Answer contents including a single XML document with the separate XML sections populated.

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Sample Request body structure for POST and PUT operations:

```
{
  "admin_state": true,
  "description": "string",
  "enable_subscription": true,
  "name": "string",
  "ocs_from_peer_nodes": true,
  "primary_server": {
    "addr": "string",
    "identity": "string",
    "port": "string"
  },
  "quaternary_server": {
    "addr": "string",
    "identity": "string",
    "port": "string"
  },
  "read_connection": "1",
  "realm": "string",
  "refPeerNodePrimary": "string",
  "refPeerNodeQuaternary": "string",
  "refPeerNodeSecondary": "string",
  "refPeerNodeTertiary": "string",
  "search_criteria": {
    "baseDN": "string",
    "key_replace_ptn": "string",
    "key_transform_ptn": "string",
    "rootDN": "string",
    "type": "IMSI"
  },
  "search_filter": {
    "apn_filters_expr": [
      "string"
    ],
    "id_filters_expr": [
      "string"
    ],
    "id_filters_type": "IMSI"
  },
  "secondary_server": {
    "addr": "string",
    "identity": "string",
    "port": "string"
  },
  "sh_profile": "v1",
  "tertiary_server": {
    "addr": "string",
    "identity": "string",
    "port": "string"
  },
  "timer_profile": "string",
  "type": "LDAP",
  "use_notif_eff": true
}
```


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Sample Response body structure for GET, POST, and PUT operations:


```
{
  "admin_state": true,
  "description": "string",
  "enable_subscription": true,
  "name": "string",
  "ocs_from_peer_nodes": true,
  "primary_server": {
    "addr": "string",
    "identity": "string",
    "port": "string"
  },
  "quaternary_server": {
    "addr": "string",
    "identity": "string",
    "port": "string"
  },
  "read_connection": "1",
  "realm": "string",
  "refPeerNodePrimary": "string",
  "refPeerNodeQuaternary": "string",
  "refPeerNodeSecondary": "string",
  "refPeerNodeTertiary": "string",
  "search_criteria": {
    "baseDN": "string",
    "key_replace_ptn": "string",
    "key_transform_ptn": "string",
    "rootDN": "string",
    "type": "IMSI"
  },
  "search_filter": {
    "apn_filters_expr": [
      "string"
    ],
    "id_filters_expr": [
      "string"
    ],
    "id_filters_type": "IMSI"
  },
  "secondary_server": {
    "addr": "string",
    "identity": "string",
    "port": "string"
  },
  "sh_profile": "v1",
  "tertiary_server": {
    "addr": "string",
    "identity": "string",
    "port": "string"
  },
  "timer_profile": "string",
  "type": "LDAP",
  "use_notif_eff": true
}
```


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Delete Data Sources

Table 2-280 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
Data Source Name	string	M	Data Source Name

Export/Import Data Sources

Table 2-281 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of data sources. For more information, see Get, Create, and Update Data Sources.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
systemVersion	string		
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
[
  {
    "date": "string",
    "errors": [
      {
        "message": "string",
        "name": "string"
      }
    ],
    "exportData": [
      {
        "admin_state": true,
        "description": "string",
        "enable_subscription": true,
        "name": "string",
        "ocs_from_peer_nodes": true,
        "primary_server": {
          "addr": "string",
          "identity": "string",
          "port": "string"
        },
```


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```
        "quaternary_server": {
          "addr": "string",
          "identity": "string",
          "port": "string"
        },
        "read_connection": "1",
        "realm": "string",
        "refPeerNodePrimary": "string",
        "refPeerNodeQuaternary": "string",
        "refPeerNodeSecondary": "string",
        "refPeerNodeTertiary": "string",
        "search_criteria": {
          "baseDN": "string",
          "key_replace_ptn": "string",
          "key_transform_ptn": "string",
          "rootDN": "string",
          "type": "IMSI"
        },
        "search_filter": {
          "apn_filters_expr": [
            "string"
          ],
          "id_filters_expr": [
            "string"
          ],
          "id_filters_type": "IMSI"
        },
        "secondary_server": {
          "addr": "string",
          "identity": "string",
          "port": "string"
        },
        "sh_profile": "v1",
        "tertiary_server": {
          "addr": "string",
          "identity": "string",
          "port": "string"
        },
        "timer_profile": "string",
        "type": "LDAP",
        "use_notif_eff": true
      }
    ],
    "key": "string",
    "sourceVersion": "string",
    "topic": "string"
  }
]
```


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2.58 Bulk Import Export Controller

Table 2-282 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Bulk Import	POST	{apiRoot}/oc-cnpolicy-configuration/v1/administration/import	200: OK 201: Created 401: Unauthorized 403: Forbidden 404: Not Found
Import Status	GET	{apiRoot}/oc-cnpolicy-configuration/v1/administration/import/{importResourceId}/status	200: OK 401: Unauthorized 403: Forbidden 404: Not Found
Import Report	GET	{apiRoot}/oc-cnpolicy-configuration/v1/administration/import/{importResourceId}/report	200: OK 401: Unauthorized 403: Forbidden 404: Not Found
Import Resource Ids	GET	{apiRoot}/oc-cnpolicy-configuration/v1/administration/import	200: OK 401: Unauthorized 403: Forbidden 404: Not Found
Bulk Export	POST	{apiRoot}/oc-cnpolicy-configuration/v1/administration/export	200: OK 201: Created 401: Unauthorized 403: Forbidden 404: Not Found
Export Status for Policy	GET	{apiRoot}/oc-cnpolicy-configuration/v1/administration/export/{exportResourceId}/status	200: OK 401: Unauthorized 403: Forbidden 404: Not Found
Export Report for Policy	GET	{apiRoot}/oc-cnpolicy-configuration/v1/administration/export/{exportResourceId}/report	200: OK 401: Unauthorized 403: Forbidden 404: Not Found
Download Exported File	GET	{apiRoot}/oc-cnpolicy-configuration/v1/administration/export/{exportResourceId}/download	200: OK 401: Unauthorized 403: Forbidden 404: Not Found
Export Resource Ids	GET	{apiRoot}/oc-cnpolicy-configuration/v1/administration/export	200: OK 401: Unauthorized 403: Forbidden 404: Not Found

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> **Note**
>
> The **Bulk Import/Export** APIs return a `ResourceId` in response to the POST request. The `ResourceId` is the background task id for the POST operations. This id can be used to track the import or export requests, and download the export data. For example, the POST API for bulk export operation takes MO name as input. The response of this API contains the resource id of the file created for export. You can use this resource Id to download the export data at any point of time.

Below are the status displayed by Bulk import/export:

- **IN_PROGRESS**: The import/export is running.
- **DONE**: The import/export is finished. Following are the possible status if the import/export is in DONE status:
  - **SUCCESS** : The import/export is successful
  - **FAILED** : The import/export is failed
  - **PARTIAL_SUCCESS** : The import/export is partially successful

2.59 Consistent Logging Level

Table 2-283 Supported REST APIs - Consistent Logging Level

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get All (Export) Consistent Logging Level	GET	/oc-cnpolicy-configuration/v1/conLoggingLevelConfig/export/{serviceType}	See Table A-1
Import Consistent Logging Level	POST	/oc-cnpolicy-configuration/v1/conLoggingLevelConfig/import/{serviceType}	See Table A-3
Get Consistent Logging Level	GET	/oc-cnpolicy-configuration/v1/conLoggingLevelConfig/{serviceType}	See Table A-1
Update Consistent Logging Level	PUT	/oc-cnpolicy-configuration/v1/conLoggingLevelConfig/{serviceType}	See Table A-2

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Get and Update Consistent Logging Level

Table 2-284 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
appLogLevel	String	M	Defines the application's root log level.
packageLogLevel: logLevelForPackage	String	O	Defines the log level for the package.
packageLogLevel:packageName	String	O	Defines the package name.
serviceType	String	M	Specifies the following supported service types: • PCRF Core • PCF Session Management • PCF Access and Mobility • PCF UE Policy • PCF User Connector • NRF Discovery Client • NRF Management Client • Policy DS

Sample Request body for Consistent Logging Level PUT operation:

```
{
  "appLogLevel": "DEBUG",
  "packageLogLevel": [
    {
      "logLevelForPackage": "DEBUG",
      "packageName": "string"
    }
  ]
}
```

Sample Response body structure for Consistent Logging Level GET and PUT operation:

```
{
  "appLogLevel": "DEBUG",
  "packageLogLevel": [
    {
      "logLevelForPackage": "DEBUG",
      "packageName": "string"
    }
  ]
}
```


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Import and Export Consistent Logging Level

Table 2-285 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of Consistent Logging Level. For more information, see Get and Update Consistent Logging Level.
key	string		Indicates the ID
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Consistent Logging Level Import and Export operations:

```
{
  "date": "string",
  "exportData": {
    "appLogLevel": "DEBUG",
    "packageLogLevel": [
      {
        "logLevelForPackage": "DEBUG",
        "packageName": "string"
      }
    ]
  },
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```

2.60 Load Shedding Profile

This section describes the available service URIs to create and configure load shedding profiles for CNC Policy.

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Table 2-286 Supported REST APIs - Load Shedding Profile

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Load Shedding Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/loadsheddingprofiles	See Table A-3
Get Load Shedding Profile	GET	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/loadsheddingprofiles/{loadsheddingName}	See Table A-1
Update Load Shedding Profile	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/loadsheddingprofiles/{loadsheddingName}	See Table A-2
Export Load Shedding Profiles	GET	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/loadsheddingprofiles/export	See Table A-1
Import Load Shedding Profiles	POST	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/loadsheddingprofiles/import	See Table A-3
Delete Load Shedding Profile	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/loadsheddingprofiles/{loadsheddingName}	See Table A-4

Get, Create, and Update Load Shedding Profile

The following table describes the request and response body parameters used in APIs for load shedding profiles.

Table 2-287 Request and Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
loadSheddingRules	CongestionLoadSheddingRules	Optional	Specifies the list of configured Congestion Load Shedding Rules.
name	string	Mandatory	Specifies the unqiue name of the load shedding profile.
overloadLoadSheddingRules	OverloadLoadSheddingRules	Optional	Specifies the list of configured Overload Load Shedding Rules.

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Table 2-287 (Cont.) Request and Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
type	Enum The supported values are: • Overload Control • congestion	Optional	Specifies the type of load shedding profile. The load shedding profile can be one of the following types: • Congestion Control • Overload Control

Table 2-288 CongestionLoadSheddingRules

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
ansWithResultCode	Enum The supported values are: • DIAMETER_TOO_BUSY • DIAMETER_UNABLE_TO_COMPLY • DIAMETER_UNABLE_TO_DELIVER • EXPERIMENTAL_RESULT_CODE	Optional	Specifies the result code, returned in the answer response, when request message is rejected as part of congestion control.
discardPriority	integer	Mandatory	Specifies the discard priority for the congestion load shedding rule. The discard priority value can be a number from 0 to 15. Any request message with equal or lower priority is rejected.
resultCode	integer	Conditional	**Note**: Specify a value for this parameter when you choose `EXPERIMENTAL_RESULT_CODE` value for the `ansWithResultCode` parameter. Specifies the custom result code, which is returned in the answer response when service request is rejected due to congestion control. .
state	Enum The supported values are: • CONGESTED • DANGER_OF_CONGESTION	Optional	Specifies the type of state for which you are defining the rule.

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Table 2-288 (Cont.) CongestionLoadSheddingRules

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
vendorId	integer	Conditional	**Note**: Specify a value for this parameter when you choose `EXPERIMENTAL_RESULT_CODE` value for the `ansWithResultCode` parameter. Specifies the vendor ID, which is returned in the answer response when service request is rejected due to congestion control. .

Table 2-289 OverloadLoadSheddingRules

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
ansWithResultCode	Enum The supported values are: • DIAMETER_TOO_BUSY • DIAMETER_UNABLE_TO_COMPLY • DIAMETER_UNABLE_TO_DELIVER • EXPERIMENTAL_RESULT_CODE	Optional	Specifies the result code, returned in the answer response, when request message is rejected as part of overload control.
discardPriority	integer	Mandatory	Specifies the discard priority for the overload shedding rule. The discard priority value can be a number from 0 to 15. Any request message with equal or lower priority is rejected.
level	Enum The supported values are: • L1 • L2 • L3 • L4	Mandatory	Specifies the name of the level. The name specified in this parameter must match the level name in Ingress Gateway's ocdiscardpolicies.

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Table 2-289 (Cont.) OverloadLoadSheddingRules

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
resultCode	integer	Conditional	**Note**: Specify a value for this parameter when you choose `EXPERIMENTAL_RESULT_CODE` value for the `ansWithResultCode` parameter. Specifies the custom result code, which is returned in the answer response when service request is rejected due to overload control. .
vendorId	integer	Conditional	**Note**: Specify a value for this parameter when you choose `EXPERIMENTAL_RESULT_CODE` value for the `ansWithResultCode` parameter. Specifies the vendor ID, which is returned in the answer response when service request is rejected due to overload control. .

Sample Request body for Load Shedding Profile (PUT and POST operations):

```
{
  "loadSheddingRules": [
    {
      "ansWithResultCode": "DIAMETER_TOO_BUSY",
      "discardPriority": 0,
      "resultCode": 0,
      "state": "CONGESTED",
      "vendorId": 0
    }
  ],
  "name": "string",
  "overloadLoadSheddingRules": [
    {
      "ansWithResultCode": "DIAMETER_TOO_BUSY",
      "discardPriority": 0,
      "level": "L1",
      "resultCode": 0,
      "vendorId": 0
    }
  ],
  "type": "DIAMETER_TOO_BUSY"
}
```


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Sample Response body for Load Shedding Profile (PUT, GET, and POST operation):

```
{
  "loadSheddingRules": [
    {
      "ansWithResultCode": "DIAMETER_TOO_BUSY",
      "discardPriority": 0,
      "resultCode": 0,
      "state": "CONGESTED",
      "vendorId": 0
    }
  ],
  "name": "string",
  "overloadLoadSheddingRules": [
    {
      "ansWithResultCode": "DIAMETER_TOO_BUSY",
      "discardPriority": 0,
      "level": "L1",
      "resultCode": 0,
      "vendorId": 0
    }
  ],
  "type": "DIAMETER_TOO_BUSY"
}
```

Import and Export Load Shedding Profile

Table 2-290 Request and Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string	Optional	Specifies the current timestamp.
errors.message	string	Optional	The reason of the failure.
error.name	string	Optional	Name of the components that the user is unable to export or import successfully.
exportData	array	Mandatory	Exported list of Load Shedding Profiles. For more information, see Get, Create, and Update Load Shedding Profile.
key	string	Optional	Indicates the ID of the load shedding profile.
sourceVersion	string	Optional	System version of product from which data is exported.
topic	string	Mandatory	Topic of each managed object.

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Sample Request Body structure for Load Shedding Profile Import and Export operations:


```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "loadSheddingRules": [
        {
          "ansWithResultCode": "DIAMETER_TOO_BUSY",
          "discardPriority": 0,
          "resultCode": 0,
          "state": "CONGESTED",
          "vendorId": 0
        }
      ],
      "name": "string",
      "overloadLoadSheddingRules": [
        {
          "ansWithResultCode": "DIAMETER_TOO_BUSY",
          "discardPriority": 0,
          "level": "L1",
          "resultCode": 0,
          "vendorId": 0
        }
      ],
      "type": "DIAMETER_TOO_BUSY"
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


2.61 Message Priority Profile

Table 2-291 Supported REST APIs - Message Priority Profile

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Message Priority Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/messageprioritypro files	See Table A-3

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Table 2-291 (Cont.) Supported REST APIs - Message Priority Profile

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get Message Priority Profile	GET	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/messagepriorityprofiles/{messagepriorityName}	See Table A-1
Update Message Priority Profile	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/messagepriorityprofiles/{messagepriorityName}	See Table A-2
Export Message Priority Profiles	GET	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/messagepriorityprofiles/export	See Table A-1
Import Message Priority Profiles	POST	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/messagepriorityprofiles/import	See Table A-3
Delete Message Priority Profile	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/messagepriorityprofiles/{messagepriorityName}	See Table A-4

Get, Create, and Update Message Priority Profile

Table 2-292 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	Mandatory	Unique name of the message priority profile.
priorityRules []	array	Optional	Specifies configured message priority rules.
priorityRules [].conditions	conditions	Optional	Specifies the conditions for message priority rule.
priorityRules [].conditions.application	string	Mandatory	Specifies the type of application.
priorityRules [].conditions.message	string	Mandatory	Specifies the type of message for the selected application.

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Table 2-292 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
priorityRules[].conditions.preDefinedAVPConditions	array	Optional	Specifies the pre-defined AVP conditons.
enableDRMPPriority	boolean	Optional	When this switch is enabled, the priority for the message rule is assigned from DRMP AVP.
messagePriority	integer	Mandatory	Specifies the priority assigned to the message. It can be a number from 0 to 15.
ruleName	string	Mandatory	Specifies the unique name of the message priority rule.
rulePriority	integer	Mandatory	Specifies the priority assigned to the message priority rule.

Sample Request body for Message Priority Profile PUT operation:

```
{
  "name": "string",
  "priorityRules": [
    {
      "conditions": {
        "application": "Gx",
        "message": "CCR",
        "preDefinedAVPConditions": [
          {
            "conditionCCRTValue": "UPDATE_REQUEST",
            "conditionCSIDValue": [
              "string"
            ],
            "conditionMCPTTIdValue": [
              "string"
            ],
            "conditionMCVideoIdValue": [
              "string"
            ],
            "conditionMPSIdValue": [
              "string"
            ],
            "conditionName": "CC-Request-Type",
            "conditionReservPriorityValue": [
              "string"
            ],
            "conditionRxRTValue": [
              "INITIAL_REQUEST"
            ],
            "conditionSNRTypeValue": [
              "ABORT_SESSION_REQUEST"
            ],
            "conditionServiceURNIDValue": [
```


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```
              "string"
            ]
          }
        ]
      },
      "enableDRMPPriority": true,
      "messagePriority": 8,
      "ruleName": "string",
      "rulePriority": 3
    }
  ]
}
```

Sample Response body structure for Message Priority Profile GET and PUT operation:

```
{
  "name": "string",
  "priorityRules": [
    {
      "conditions": {
        "application": "Gx",
        "message": "CCR",
        "preDefinedAVPConditions": [
          {
            "conditionCCRTValue": "UPDATE_REQUEST",
            "conditionCSIDValue": [
              "string"
            ],
            "conditionMCPTTIdValue": [
              "string"
            ],
            "conditionMCVideoIdValue": [
              "string"
            ],
            "conditionMPSIdValue": [
              "string"
            ],
            "conditionName": "CC-Request-Type",
            "conditionReservPriorityValue": [
              "string"
            ],
            "conditionRxRTValue": [
              "INITIAL_REQUEST"
            ],
            "conditionSNRTypeValue": [
              "ABORT_SESSION_REQUEST"
            ],
            "conditionServiceURNIDValue": [
              "string"
            ]
          }
        ]
      },
      "enableDRMPPriority": true,
      "messagePriority": 8,
```


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```
      "ruleName": "string",
      "rulePriority": 3
    }
  ]
}
```

Import and Export Message Priority Profile

Table 2-293 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors.message	string		The reason of the failure.
errors.name	string		Name of the components that failed to export or import.
exportData	array		Exported list of Message Priority Profile. For more information, see Get, Create, and Update Message Priority Profile.
key	string		Indicates the ID
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Message Priority Profile Import and Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "name": "string",
      "priorityRules": [
        {
          "conditions": {
            "application": "Gx",
            "message": "CCR",
            "preDefinedAVPConditions": [
              {
                "conditionCCRTValue": "UPDATE_REQUEST",
                "conditionCSIDValue": [
                  "string"
```


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```
                    ],
                    "conditionMCPTTIdValue": [
                      "string"
                    ],
                    "conditionMCVideoIdValue": [
                      "string"
                    ],
                    "conditionMPSIdValue": [
                      "string"
                    ],
                    "conditionName": "CC-Request-Type",
                    "conditionReservPriorityValue": [
                      "string"
                    ],
                    "conditionRxRTValue": [
                      "INITIAL_REQUEST"
                    ],
                    "conditionSNRTypeValue": [
                      "ABORT_SESSION_REQUEST"
                    ],
                    "conditionServiceURNIDValue": [
                      "string"
                    ]
                  }
                ]
              },
              "enableDRMPPriority": true,
              "messagePriority": 8,
              "ruleName": "string",
              "rulePriority": 3
            }
          ]
        }
      ],
      "key": "string",
      "sourceVersion": "string",
      "topic": "string"
    }
```


2.62 Congestion Threshold

Table 2-294 Supported REST APIs - Congestion Threshold

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get Congestion Threshold	GET	{apiRoot}/oc-cnpolicy-configuration/v1/threshold/{serviceType} {serviceType} available value is "diam-gateway"	See Table A-1

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Table 2-294 (Cont.) Supported REST APIs - Congestion Threshold

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Update Congestion Threshold	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/threshold/{serviceType} {serviceType} available value: "diam-gateway"	See Table A-2
Export Congestion Thresholds	GET	{apiRoot}/oc-cnpolicy-configuration/v1/threshold/export/{serviceType} {serviceType} available value: "diam-gateway"	See Table A-1
Import Congestion Thresholds	POST	{apiRoot}/oc-cnpolicy-configuration/v1/threshold/import/{serviceType} {serviceType} available value: "diam-gateway"	See Table A-3

Get and Update Congestion Threshold

Table 2-295 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
stateCalculationInterval	integer	Mandatory	Specifies the interval at which congestion state is calculated.
stateChangeSampleCount	integer	Mandatory	Specifies the continuous sample counts for which calculated state remains the same.
thresholds	Threshold	Mandatory	An array to define threshold values for each resource for a given state,

Table 2-296 Request/Response Body Parameters for Thresholds

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
state	string	Optional	Specifies the congestion state. The state can be in either `DANGER_OF_CONGESTION` and `CONGESTED`.
resourceUsageLimit	ResourceUsageLimit	Mandatory	Specifies the resource usage limit for a defined state.

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Table 2-297 Request/Response Body Parameters for ResourceUsageLimit

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
cpu	integer	Mandatory	Specifies the threshold value for CPU message. For DANGER_OF_CONGESTION (DOC) state, CPU default value: 60 For CONGESTED state, CPU default value: 80
memory	integer	Mandatory	Specifies the threshold value for memory message. **Default Value:** 60
queue	integer	Mandatory	Specifies the threshold value for number of messages in the queue . For DANGER_OF_CONGESTION (DOC) state, Queue count default value: 20 For CONGESTED state, Queue count default value: 50

Sample Request body for Congestion Threshold GET and PUT operation:

```
    {
  "stateCalculationInterval": 100,
  "stateChangeSampleCount": 10,
  "thresholds": [
    {
      "state": "CONGESTED",
      "resourceUsageLimit": {
        "cpu": 80,
        "memory": 60,
        "queue": 50
      }
    },
    {
      "state": "DANGER_OF_CONGESTION",
      "resourceUsageLimit": {
        "cpu": 60,
        "memory": 60,
        "queue": 20
      }
    }
  ]
}
```


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Import and Export Congestion Threshold

Table 2-298 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors.message			The reason of the failure.
errors.name			Name of the components that failed to export or import.
exportData	array		Exported list of Congestion Threshold. For more information, see Get and Update Congestion Threshold.
key	string		Indicates the ID
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Congestion Threshold Import and Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": {
    "stateCalculationInterval": 100,
    "stateChangeSampleCount": 10,
    "thresholds": [
      {
        "state": "CONGESTED",
        "resourceUsageLimit": {
          "cpu": 80,
          "memory": 80,
          "queue": 50
        }
      },
      {
        "state": "DANGER_OF_CONGESTION",
        "resourceUsageLimit": {
          "cpu": 60,
          "memory": 60,
          "queue": 30
```


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```
        }
      }
    ]
  },
  "sourceVersion": "string",
  "topic": "string"
}
```

2.63 Peer Node Sets

(Required) <Enter introductory text here, including the definition and purpose of the concept.>

Table 2-299 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Peer Node Set	POST	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/peernodesets	See Table A-3
Get Peer Node Set	GET	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/peernodesets/{peerNodeSetName}	See Table A-1
Update Peer Node Set	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/peernodesets/{peernodesetName}	See Table A-2
Delete Peer Node Set	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/peernodesets/{peerNodeSetName}	See Table A-4

Get, Create, and Update Peer Nodes

Table 2-300 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
description	String	O	Description of the Peer Node Set
name	String	O	Unique Name of the Peer Node Set.
realm	String	O	The realm name, that is, FQDNs to all of that computers that transact diameter traffic.
Primary Server	String	O	The primary server for a TDF client.
Secondary Server	String	O	The Secondary server for a TDF client.
Tertiary Server	String	O	The Tertiary server for a TDF client.
Quaternary Server	String	O	The Quaternary server for a TDF client.

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Sample Request body structure for POST and PUT operations:

```
{
  "description": "string",
  "name": "string",
  "realm": "string",
  "refPeerNodePrimary": "string",
  "refPeerNodeQuaternary": "string",
  "refPeerNodeSecondary": "string",
  "refPeerNodeTertiary": "string",
  "type": "tdf"
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "description": "string",
  "name": "string",
  "realm": "string",
  "refPeerNodePrimary": "string",
  "refPeerNodeQuaternary": "string",
  "refPeerNodeSecondary": "string",
  "refPeerNodeTertiary": "string",
  "type": "tdf"
}
```

2.64 Peer Nodes

Table 2-301 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Peer Node	POST	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/peernodes	See Table A-3
Get All (Export) Peer Nodes	GET	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/peernodes/export	See Table A-1
Import Peer Nodes	POST	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/peernodes/import	See Table A-3
Get Peer Node	GET	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/peernodes/{peernodeName}	See Table A-1
Update Peer Node	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/peernodes/{peernodeName}	See Table A-2

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Table 2-301 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Delete Peer Node	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/peernodes/{peernodeName}	See Table A-4

Get, Create, and Update Peer Nodes

Table 2-302 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
diamName	String	O	Unique Name of the Peer Node
dtype	String	O	Defines which type of Diameter Service it should take up. The value can be Application function (af) or diameter routing agent(dra).
host	String	O	The host name. Enter a FQDN, ipv4 or ipv6 address available for establishing diameter transport connections to the peer node.
identity	String	O	An identity to define a node in a realm.
initiateConnection	boolean	O	Set it to True to initiate a connection for this peer node. **Default Value**: FALSE
port	Number	O	The port number. Enter a number from 0 to 65535.
realm	String	O	The realm name, that is, FQDNs to all of that computers that transact diameter traffic.
reconnectLimit	Number		

Sample Request body structure for POST and PUT operations:

```
{
  "diamName": "string",
  "dtype": "af",
  "host": "string",
  "identity": "string",
  "initiateConnection": true,
  "port": "3868",
  "realm": "string",
  "reconnectLimit": "3"
}
```


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Sample Response body structure for GET, POST, and PUT operations:

```
{
  "diamName": "string",
  "dtype": "af",
  "host": "string",
  "identity": "string",
  "initiateConnection": true,
  "port": "3868",
  "realm": "string",
  "reconnectLimit": "3"
}
```

Delete Peer Nodes

DELETE - delete peer node

Table 2-303 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
Peer Node Name	string	M	Peer Node Name

Export/Import Peer Nodes

Table 2-304 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of peer nodes. For more information, see Get, Create, and Update Peer Nodes.
key	string		Indicates the ID
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
[
  {
    "date": "string",
    "errors": [
      {
        "message": "string",
```


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```
        "name": "string"
      }
    ],
    "exportData": [
      {
        "diamName": "string",
        "dtype": "af",
        "host": "string",
        "identity": "string",
        "initiateConnection": true,
        "port": "3868",
        "realm": "string",
        "reconnectLimit": "3"
      }
    ],
    "key": "string",
    "sourceVersion": "string",
    "topic": "string"
  }
]
```

2.65 Access and Mobility Service

Table 2-305 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get Access and Mobility Service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfam	See Table A-1
Update Access and Mobility Service	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfam	See Table A-2
Export Access and Mobility Management Service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfam/export	See Table A-1
Import Access and Mobility Service	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfam/import	See Table A-3

Get and Update Access and Mobility Service

Table 2-306 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
app	AppConfiguration	O	
system	AMServiceSystemConfiguration	O	

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Table 2-307 AppConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
defaultRfsp	string	O	RFSP (Rat Frequency Selection Priority)
defaultServAreaResCfgId	string	O	SAR (Service Area Restriction)
defaultTriggers	ENUM	O	

Table 2-308 AMServiceSystemConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
amfNotificationRetryProfile	string	O	Specifies the retry profile configuration for Access and Mobility service.
amNfCommProfile	string	O	Specifies the NF communication profile used by AMF.
enableHttp2Client	boolean	O	Enables http2 client. **Default Value**: TRUE
isSubscribe	boolean	O	Indicates whether service is subscribed. Default Value: TRUE
isValidateUser	boolean	O	Determines if user validate is enabled. HTTP 400 with cause **USER_UNKNOWN** returns, if this is enabled and user not found in UDR. **Default Value**: FALSE
logList	AMServiceSystemConfigurationLogList	O	
rootLogLevel	string, ENUM	M	Indicates the log level of PCF Session Management (SM) service. Default Value: **WARN**
usePolicyService	boolean	O	If selected, uses the policy service. Component tracing is used to evaluate system process latency in detail level. **Default Value**:TRUE
useUserPolicy	boolean	O	If selected uses the user service. **Default Value**:TRUE

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Table 2-308 (Cont.) AMServiceSystemConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enableLimitingSessionByPerUser	boolean	O	Specifies whether to enable the Limiting the Number of Sessions functionality. **Default value**: false
maxSessionLimitUser	integer	C	Enables to configure the maximum number of sessions to be limited by the user if **Enable Max Session Limit** flag is enabled. The value of this parameter ranges between 1 and 2. **Default value**: 1

Table 2-309 AMServiceSystemConfigurationLogList

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
level	ENUM	O	
name	string	M	

Table 2-310 UserConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
validateUser		O	Determines if user validate is enabled. HTTP 400 with cause **USER_UNKNOWN** returns, if this is enabled and user not found in UDR. **Default Value**: FALSE

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Table 2-310 (Cont.) UserConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
queryUserOnCreate	boolean	O	Determines if user query from UDR is enabled. When this option is enabled, PDS queries the UDR about the subscriber contained in the UE Association create request by sending a GET request for “ue-policy-set” resource on the nudr-dr service. Default Value: true
subscribeToNotify	boolean	O	When Subscribe to Notify is enabled, Policy subscribes with the UDR to get notified on changes in subscriber profile. Default Value: true
queryUserOnUpdate	boolean	O	Determines if user query from UDR on update is enabled. When this option is enabled, PDS queries the UDR about the subscriber present in the UE Association update request by sending a GET request for “ue-policy-set” resource on the nudr-dr service. Default Value: false
queryUserOnTerminate	boolean	O	Determines if user query from UDR on delete is enabled. When this option is enabled, PCF queries the UDR about the subscriber present in the UE Association delete request by sending a GET request for “ue-policy-set” resource on the nudr-dr service. Default Value: false

Sample Request body structure for POST and PUT operations:

```
{
    "system": {
```


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```
            "enableLimitingSessionByPerUser": true,
            "maxSessionLimitUser": 1
        },
        "user": {
            "validateUser": false,
            "queryUserOnCreate": true,
            "subscribeToNotify": true,
            "queryUserOnUpdate": false,
            "queryUserOnTerminate": false
        },
        "policy": {
            "evaluate": true
        },
        "rules": {
            "defaultServAreaResCfgId": "",
            "defaultTriggers": []
        },
        "audit": {
            "enable": true,
            "queryAMF": false,
            "notificationRate": 50,
            "ttl": 1440,
            "maxTtl": 2880,
            "frequency": 10
        }
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "audit": {
    "enable": true,
    "frequency": 330,
    "maxTtl": 2880,
    "notificationRate": 50,
    "queryAMF": true,
    "ttl": 1440
  },
  "policy": {
    "evaluate": true
  },
  "rules": {
    "defaultRfsp": 3,
    "defaultServAreaResCfgId": "string",
    "defaultTriggers": [
      "LOC_CH"
    ]
  },
  "system": {
    "amNfCommProfile": "string",
    "amfNotificationRetryProfile": "string"
  },
  "user": {
    "queryUserOnCreate": true,
    "queryUserOnTerminate": true,
```


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```
    "queryUserOnUpdate": true,
    "subscribeToNotify": true,
    "validateUser": true
  }
}
```

Export/Import Access and Mobility Service

Table 2-311 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors:message	string		
errors:name	string		
exportData	array		Exported list of access and mobility management service. For more information, see Get and Update Access and Mobility Service.
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": {
    "audit": {
      "enable": true,
      "frequency": 330,
      "maxTtl": 2880,
      "notificationRate": 50,
      "queryAMF": true,
      "ttl": 1440
    },
    "policy": {
      "evaluate": true
    },
    "rules": {
      "defaultRfsp": 3,
      "defaultServAreaResCfgId": "string",
      "defaultTriggers": [
```


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```
        "LOC_CH"
      ]
    },
    "system": {
      "amNfCommProfile": "string",
      "amfNotificationRetryProfile": "string"
    },
    "user": {
      "queryUserOnCreate": true,
      "queryUserOnTerminate": true,
      "queryUserOnUpdate": true,
      "subscribeToNotify": true,
      "validateUser": true
    }
  },
  "sourceVersion": "string",
  "topic": "string"
}
```

2.66 Policy Authorization Service

Table 2-312 Supported REST APIs

Description	HTTP Method or Custom Operation	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfpa	Possible Result Code
Get Policy Authorization Service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfpa	See Table A-1
Update Policy Authorization Service	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfpa	See Table A-2
Export All Policy Authorization Service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfpa/export	See Table A-1
Import Policy Authorization Service	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfpa/import	See Table A-3

Get and Update Policy Authorization Service

Table 2-313 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
imsEmergencySession	IMSEmergencySessionPAServiceConfiguration	O	
system	System Configuration	O	

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Table 2-314 IMSEmergencySessionPAServiceConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
emergencyServiceURNs	string Any number of values are permitted for Emergency Service URNs	O	Specifies the Uniform Resource Name (URN) values for emergency and other well-known services.
reservationPriorityTypes	ENUM	O	Specifies the IMS Signalling Priority.

Table 2-315 System Configuration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
afDirectReply	boolean	O	Specifies, if reply must be sent to AF before the PCF that sends the policy decision to SMF, after successful session binding.
afNotificationsRetryProfile	string		Specifies the retry profile configuration for Policy Authorization.
afSubsNotifySegment	string example: termination	O	Specifies AF subscription notify uri segment appended to AF subs notify uri. For example, {NotificationUri}/notify. "notify" is the subscription notify uri segment.
afTerminateUriSegment	string example: termination	O	Specifies AF notify to terminate uri segment appended to AF notify uri. For example, {NotificationUri}/ termination. "termination" is the terminate uri segment.
overrideSupportedFeatures	string	O	Defines the supported features that can be configured to override system embedded values. Represent a string separated by comma. For example, "InfluenceOnTrafficRouting,SponsoredConnectivity". The "" means an empty supported feature set.

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Table 2-315 (Cont.) System Configuration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
paNfCommProfile	string	O	Specifies the NF communication profile used by AF.
dataCompressionSchem e	string	O	
authorizationLifetime	Long	O	If included implies authorization lifetime feature is to be negotiated, includes a value higher than 0 specifying Authorization Lifetime AVP. **Default Value**: null
reportPartialFailedEvent			

Sample Request body structure for PUT operations:

```
{
  "imsEmergencySession": {
    "emergencyServiceURNs": [
      "string"
    ],
    "reservationPriorityTypes": [
      "PRIO_1"
    ]
  },
  "system": {
    "afDirectReply": true,
    "overrideSupportedFeatures": "string",
    "afTerminateUriSegment": "terminate",
    "afSubsNotifySegment": "notify",
    "afNotificationsRetryProfile": "string",
    "paNfCommProfile": "string",
    "dataCompressionScheme": "string",
    "authLifetime": true,
    "reportPartialFailedEvent": "INDICATION_OF_LOSS_OF_BEARER"
  }
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "imsEmergencySession": {
    "emergencyServiceURNs": [
      "string"
    ],
    "reservationPriorityTypes": [
      "PRIO_1"
```


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```
    ]
  },
  "system": {
    "afDirectReply": true,
    "overrideSupportedFeatures": "string",
    "afTerminateUriSegment": "terminate",
    "afSubsNotifySegment": "notify",
    "afNotificationsRetryProfile": "string",
    "paNfCommProfile": "string",
    "dataCompressionScheme": "string",
    "authLifetime": true,
    "reportPartialFailedEvent": "INDICATION_OF_LOSS_OF_BEARER"
  }
}
```

Export/Import Policy Authorization Service

Table 2-316 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of policy authorization service. For more information, see Get and Update Policy Authorization Service.
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": {
    "imsEmergencySession": {
      "emergencyServiceURNs": [
        "string"
      ],
      "reservationPriorityTypes": [
        "PRIO_1"
      ]
    },
    "system": {
```


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```
      "afDirectReply": true,
      "afNotificationsRetryProfile": "string",
      "afSubsNotifySegment": "notify",
      "afTerminateUriSegment": "terminate",
      "overrideSupportedFeatures": "string",
      "paNfCommProfile": "string",
      "reportPartialFailedEvent": "INDICATION_OF_FAILED_RESOURCES_ALLOCATION"
    }
  },
  "sourceVersion": "string",
  "topic": "string"
}
```

Audit Authorization Service

Table 2-317 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enable	boolean	O	Specifies whether to enable or disable the stale Rx session audit and deletion. When this parameters is enabled, SM Service registers with Audit service for monitoring Rx sessions. **Default Value**: false
ttl	integer	O	Specifies the Time To Live (TTL) of Rx sessions. **Range**: 0-21600 **Default Value**: 1440
maxTtl	integer	O	Specifies the maximum Time To Live (TTL) of Rx sessions. **Default Value**: 4320 **Range**: 0-21600
notificationRate	integer	O	Maximum amount of app session cleanup requests per second. **Default Value**: 50
frequency	integer	O	Specifies how long the Audit Service waits for next audit cycle. **Default Value**: 10

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Table 2-317 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
nullAsStale	boolean	O	If EXPIRY_TIMESTAMP or SITEID contains NULL value, (legacy stale records after upgrade) they will be considered in the next audit cycle as TTL expired. **Default Value**: false

Sample Request Body structure for GET/PUT operations:

```
{
  "system": {
    "afDirectReply": true,
    "overrideSupportedFeatures": "string",
    "afTerminateUriSegment": "terminate",
    "afSubsNotifySegment": "notify",
    "afNotificationsRetryProfile": "string",
    "paNfCommProfile": "string",
    "dataCompressionScheme": "string",
    "authLifetime": true,
    "reportPartialFailedEvent": "INDICATION_OF_LOSS_OF_BEARER"
  },
  "imsEmergencySession": {
    "Any number of values are permitted for Emergency Service URNs": [
      "string"
    ],
    "reservationPriorityTypes": [
      "PRIO_1"
    ]
  },
  "nwdaf": {
    "enableNwdafData": true
  },
  "audit": {
    "enable": true,
    "ttl": 1440,
    "maxTtl": 4320,
    "notificationRate": 50,
    "frequency": 10,
    "nullAsStale": true
  },
  "advancedSettings": [
    {
      "key": "string",
      "value": "string"
    }
  ]
```


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```
}
}
```

2.67 UE Policy

Table 2-318 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get UE Policy Service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfue	See Table A-1
Update UE Policy Service	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfue	See Table A-2
Export All UE Policy Service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfue/export	See Table A-1
Import UE Policy Service	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfue/import	See Table A-3

Get and Update UE Policy

Table 2-319 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
amf	AMFConfiguration	O	
system	UEPolicyServiceSystemConfiguration	O	
user	UserUEPolicyServiceConfiguration	O	
homePLMN	HomePLMNConfiguration	O	
n1MsgTransferSettings	N1MessageTransferSettingsConfiguration	O	
timerSettings	TimerSettingsConfiguration	O	
n1MsgRetransmissionSettings	N1MessageRetransmissionSettingsConfiguration	O	
audit	AuditConfiguration	O	

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Table 2-320 AMFConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enableHttp11Client	boolean	O	
naSMsgTransferMaxSize	integer ($int32)	O	Enter a range in [0-65535] number
amf.ueAMFCommProfile	string	O	Specifies the NF communication profile used by AMF.
amf.ueNASCommProfile	string	O	Specifies the NF communication profile used by NAS.
amf.ueAMFRetryProfileNotification	string	O	
amf.ueNASRetryProfileInitial	string	O	
amf.ueNASRetryProfileSubs	string	O	
amf.ueAMFDiscoveryCriteria	string	O	
amf.sendSbiBhForN1N2TransferReq	String	O	Indicates when to send the SBI binding header for N1N2Transfer request. The options can be: • When binding information changes: Sends the binding header in the HTTP request only whenever there is a change in the binding information. • Always: Sends the binding header in all the N1N2Transfer requests. • Never: Never includes the binding header in any N1N2Transfer request. **Default value**: When binding information changes **Note**: This configuration will override the values being set towards **NF Communication Profile** under NAS (The NF Communication Profile for NAS is mandatory to be set in UE service configuration).

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Table 2-320 (Cont.) AMFConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
amf.sendRoutingBhForN1N2TransferReq	String	O	Indicates when to send the routing binding header for N1N2Transfer request. The options can be: • Always: Sends the routing binding header in all the N1N2Transfer requests. • Never: Never sends the routing binding header in any N1N2Transfer request. **Default value**: There is no default value configured for this field. **Note**: • This configuration will override the values being set towards **NF Communication Profile** under NAS (The NF Communication Profile for NAS is mandatory to be set in UE service configuration). • To rollback the value of the parameter from "ALWAYS"/"NEVER" to default value, click **Please Select**.

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Table 2-320 (Cont.) AMFConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
amf.sendDiscHeaderForN1N2TransferReq	String	O	Indicates whether to send the discovery header for N1N2Transfer request when the routing binding information is not present. The options can be: • Always: Sends the discovery header in all the N1N2Transfer requests when the routing binding header is not included. • Never: Never sends the discovery header in any N1N2Transfer request. **Default value**: There is no default value configured for this field. **Note**: • This configuration will override the values being set towards **NF Communication Profile** under NAS (The NF Communication Profile for NAS is mandatory to be set in UE service configuration). • To rollback the value of the parameter from "ALWAYS"/"NEVER " to default value, click **Please Select**.

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Table 2-321 UEPolicyServiceSystemConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
loglevel	String, ENUM	O	Indicates the log level of PCF Session Management (SM) service. Default Value: **WARN**
notifUriRoot	string	O	
enableLimitingSessionByPerUser	boolean	O	Specifies whether to enable the Limiting the Number of Sessions functionality. **Default value**: false
maxSessionLimitUser	integer	C	Enables to configure the maximum number of sessions to be limited by the user if **Enable Max Session Limit** flag is enabled. The value of this parameter ranges between 1 and 2. **Default value**: 1

Table 2-322 UserUEPolicyServiceConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
asyncChfQueryEnabled	Boolean	O	When this button is enabled, PCF interacts with CHF in Asynchronous mode.
chfQueryEnabled	Boolean	O	If this switch is enabled, PCF fetches policy counters from CHF.
isChfQueryEnabled	Boolean	O	If this switch is enabled, PCF fetches policy counters from CHF.
queryUser	boolean	O	Determines if user query from UDR is enabled. **Default Value**: TRUE
validateUser	boolean	O	Determines if user validate is enabled. HTTP 400 with cause **USER_UNKNOWN** returns, if this is enabled and user not found in UDR. **Default Value**: FALSE

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Table 2-322 (Cont.) UserUEPolicyServiceConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
queryUserOnCreate	boolean	O	Determines if user query from UDR is enabled. When this option is enabled, PDS queries the UDR about the subscriber contained in the UE Association create request by sending a GET request for “ue-policy-set” resource on the nudr-dr service. Default Value: true
subscribeToNotify	boolean	O	When Subscribe to Notify is enabled, Policy subscribes with the UDR to get notified on changes in subscriber profile. Default Value: true
queryUserOnUpdate	boolean	O	Determines if user query from UDR on update is enabled. When this option is enabled, PDS queries the UDR about the subscriber present in the UE Association update request by sending a GET request for “ue-policy-set” resource on the nudr-dr service. Default Value: false
queryUserOnTerminate	boolean	O	Determines if user query from UDR on delete is enabled. When this option is enabled, PCF queries the UDR about the subscriber present in the UE Association delete request by sending a GET request for “ue-policy-set” resource on the nudr-dr service. Default Value: false
uePolicyDataEnabled	Boolean	O	If this switch is enabled, PCF fetches UEPolicyData from nUDR.

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Table 2-323 HomePLMNConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
mcc	Number	O	The Mobile Country Code and Mobile Network Code of the Home PLMN. **Default Value**: NA
mnc	Number	O	The Mobile Country Code and Mobile Network Code of the Home PLMN. **Default Value**: NA

Table 2-324 N1MessageTransferSettings

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
n1MsgMaxSize	Number	O	Maximum number of URSP Rules to be encoded in a single UE Policy Section (UPSI) container. **Default Value**: 2000
uePolicySectionMaxSize	Number	O	The maximum size in bytes of a "MANAGE UE POLICY COMMAND" after encoding to send out to AMF for delivery to UE. **Default Value**: 2000
maxNoOfURSPRules	Number	O	Maximum number of URSP Rules to be encoded in a single UE Policy Section (UPSI) container. **Default Value**: 4

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Table 2-324 (Cont.) N1MessageTransferSettings

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
upscStart	Number	O	This fields indicate the range of UPSC allocation by PCF and can be used to maintain a dedicated range of UPSCs used by PCF generated UPSIs. Configuring these fields avoids the conflict of UPSCs between the UE built-in UPSC and the PCF delivered UPSC. **Note:** If the UPSI based policy action is also used for non-fragmented URSP delivery, then the range of UPSCs used by that method should be outside the range configured here. **Default Value**: Start: 0
upscEnd	Number	O	This fields indicate the range of UPSC allocation by PCF and can be used to maintain a dedicated range of UPSCs used by PCF generated UPSIs. Configuring these fields avoids the conflict of UPSCs between the UE built-in UPSC and the PCF delivered UPSC. **Note:** If the UPSI based policy action is also used for non-fragmented URSP delivery, then the range of UPSCs used by that method should be outside the range configured here. **Default Value**: End: 65535

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Table 2-325 TimerSettings

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
T 3501 Timer Duration	Number	O	If it's value is zero, T 3501 Timer handling functionality will be disabled. If a non-zero value is configured, then the timer will be initiated after every N1 transfer received successfully from AMF from the N1 Notify. **Default Value**: 5000
backOffTimerDuration	Number	O	The action to be taken by PCF when the AMF notifies the PCF that it could not deliver the "MANAGE UE POLICY COMMAND" message to UE. **Default Value**: 15000

Table 2-326 N1MessageRetransmissionSettings

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
On T 3501 Timer Expiry	Enumeration	O	The action to be taken by PCF when N1 notification is not received within configured duration defined in T 3501 Timer Duration. **Default Value**: Abort N1 Delivery

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Table 2-326 (Cont.) N1MessageRetransmissionSettings

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
onTransactionFailureNotification	Number	O	The action to be taken by PCF when the AMF notifies the PCF that it could not deliver the "MANAGE UE POLICY COMMAND" message to UE. **Default Value**: Abort The value for the Skip Fragment label must be "SKIP". The value for the Re-Transmit N1 Message label must be "RETRANSMIT". The value for the Abort N1 Delivery label must be "ABORT".
onUEPolicyCommandReject	Enumeration	O	The action to be taken by PCF when the UE notifies the PCF that it could not process the "MANAGE UE POLICY COMMAND" message. **Default Value**: Abort The value for the Skip Fragment label must be "SKIP". The value for the Re-Transmit N1 Message label must be "RETRANSMIT". The value for the Abort N1 Delivery label must be "ABORT".

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Table 2-326 (Cont.) N1MessageRetransmissionSettings

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
maxNoOfRetransmissions	Enumeration	O	Maximum number of re-transmissions to be attempted (excluding the initial attempt) after which UE service shall not try further to re-send the same fragment to AMF **Default Value**: 2 The value of the drop down items are as follows: • Re-Transmit N1 Message-RETRANSMIT • Skip Fragment-SKIP • Abort N1 Delivery-ABORT
reTransmissionFailureBehavior	Enumeration	O	The behavior of PCF UE service if the N1 message is not delivered to the UE after a maximum number of re-transmissions have been tried. **Default Value**: Abort The value for the Skip Fragment label must be "SKIP". The value for the Abort N1 Delivery label must be "ABORT".

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Table 2-327 AuditConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enable	boolean	O	If this flag is enabled, UE service registers with Audit service for auditing the records in `UEPolicyAssociation` table. Once the registration is successful, a record for UE service is created in the `AuditRegistration` table. **Default Value**: False
query AMF	boolean	O	If this flag is enabled, the UE service sends the stale session notification received from Audit service to AMF to check if the session is present in AMF. **Default Value**: False
notificationRate	integer	M	Defines the maximum number of stale records, which Audit Service notifies to UE service in one second. Value of this parameter ranges between 20 and 700. **Default Value**: 50
ttl	integer	M	Defines the age of the UE Policy Association, after which a record is considered to be stale on PCF and the AMF is queried (if query AMF is set to TRUE) for presence of such associations. Value of this parameter ranges between 1 and 10080. **Default Value**: 1440

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Table 2-327 (Cont.) AuditConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
maxTtl	integer	M	Defines the maximum age of a UE Policy Association, after which a record is considered as stale and is purged from PCF UE database without sending further queries to AMF. Value of this parameter ranges between 1 and 20160. **Default Value**: 2880
frequency	integer	M	Defines the time when next audit for the UE service table is done after delta time if auditing this table has been finished before this specified time. Value of this parameter ranges between 1 and 1440. **Default Value**: 10

Sample Request body structure for PUT operations:

```
{
  "amf": {
    "ueAMFCommProfile": "string",
    "ueAMFRetryProfileNotification": "string",
    "ueNASCommProfile": "string",
    "ueNASRetryProfileInitial": "string",
    "ueNASRetryProfileSubs": "string"
  },
  "audit": {
    "enable": true,
    "frequency": 5,
    "maxTtl": 2880,
    "notificationRate": 50,
    "queryAMF": true,
    "ttl": 1440
  },
  "homePLMN": {
    "mcc": 0,
    "mnc": 0
  },
  "n1MsgRetransmissionSettings": {
    "maxNoOfRetransmissions": 2,
    "onT3501TimerExpiry": "ABORT",
    "onTransactionFailureNotification": "ABORT",
```


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```
    "onUEPolicyCommandReject": "ABORT",
    "reTransmissionFailureBehavior": "ABORT"
  },
  "n1MsgTransferSettings": {
    "maxNoOfURSPRules": 4,
    "n1MsgMaxSize": 2000,
    "uePolicySectionMaxSize": 2000,
    "upscEnd": 65535,
    "upscStart": 0
  },
  "system": {
    "enableLimitingSessionByPerUser": true,
    "maxSessionLimitUser": 1,
    "notifUriRoot": "string"
  },
  "timerSettings": {
    "backOffTimerDuration": 15000,
    "t3501TimerDuration": 5000
  },
  "user": {
    "asyncChfQueryEnabled": true,
    "chfQueryEnabled": true,
    "isChfQueryEnabled": true,
    "queryUserOnCreate": true,
    "queryUserOnTerminate": true,
    "queryUserOnUpdate": true,
    "subscribeToNotify": true,
    "uePolicyDataEnabled": true,
    "validateUser": true
  }
}
```

Sample Response body structure for GET and PUT operations:

```
{
    "system": {
        "enableLimitingSessionByPerUser": true,
        "maxSessionLimitUser": 1
    },
    "user": {
        "validateUser": false,
        "queryUserOnCreate": false,
        "subscribeToNotify": false,
        "queryUserOnUpdate": false,
        "queryUserOnTerminate": false
    },
    "homePLMN": {
        "mcc": "0",
        "mnc": "0"
    },
    "n1MsgTransferSettings": {
        "n1MsgMaxSize": 2000,
        "uePolicySectionMaxSize": 2000,
        "maxNoOfURSPRules": 4,
        "upscStart": 0,
```


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```
        "upscEnd": 65535
    },
    "timerSettings": {
        "backOffTimerDuration": 15000
        "t3501TimerDuration": 5000
    },
    "n1MsgRetransmissionSettings": {
        "onTransactionFailureNotification": "ABORT",
        "onT3501TimerExpiry": "ABORT",
        "onUEPolicyCommandReject": "ABORT",
        "maxNoOfRetransmissions": 2,
        "reTransmissionFailureBehavior": "ABORT"
    },
    "audit": {
        "enable": false,
        "queryAMF": false,
        "notificationRate": 50,
        "ttl": 1440,
        "maxTtl": 2880,
        "frequency": 10
    }
}
```

Export/Import UE Policy

Table 2-328 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of UE policy service. For more information, see Get and Update UE Policy
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "amf": {
    "ueAMFCommProfile": "string",
    "ueAMFRetryProfileNotification": "string",
    "ueNASCommProfile": "string",
    "ueNASRetryProfileInitial": "string",
    "ueNASRetryProfileSubs": "string"
  },
  "audit": {
    "enable": true,
    "frequency": 5,
    "maxTtl": 2880,
```


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```
    "notificationRate": 50,
    "queryAMF": true,
    "ttl": 1440
  },
  "homePLMN": {
    "mcc": 0,
    "mnc": 0
  },
  "n1MsgRetransmissionSettings": {
    "maxNoOfRetransmissions": 2,
    "onT3501TimerExpiry": "ABORT",
    "onTransactionFailureNotification": "ABORT",
    "onUEPolicyCommandReject": "ABORT",
    "reTransmissionFailureBehavior": "ABORT"
  },
  "n1MsgTransferSettings": {
    "maxNoOfURSPRules": 4,
    "n1MsgMaxSize": 2000,
    "uePolicySectionMaxSize": 2000,
    "upscEnd": 65535,
    "upscStart": 0
  },
  "system": {
    "enableLimitingSessionByPerUser": true,
    "maxSessionLimitUser": 1,
    "notifUriRoot": "string"
  },
  "timerSettings": {
    "backOffTimerDuration": 15000,
    "t3501TimerDuration": 5000
  },
  "user": {
    "asyncChfQueryEnabled": true,
    "chfQueryEnabled": true,
    "isChfQueryEnabled": true,
    "queryUserOnCreate": true,
    "queryUserOnTerminate": true,
    "queryUserOnUpdate": true,
    "subscribeToNotify": true,
    "uePolicyDataEnabled": true,
    "validateUser": true
  }
}
```


2.68 PCRF Core Service

Table 2-329 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get PCRF Core Service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/settings	See Table A-1

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Table 2-329 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Update PCRF Core Service	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/settings	See Table A-2
Export PCRF Core Service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/settings/export	See Table A-1
Import PCRF Core Service	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/settings/import	See Table A-3

Get and Update Core Service

Table 2-330 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
advancedSettings	AdvanceSettingsConfiguration	O	
user	UserConfiguration	O	
mcptt	MCPTTConfiguration	O	
audit	AuditConfiguration	O	
usageMonService	UsageMonServiceConfiguration	O	
pendingTransaction	pendingTransaction Configuration	O	

Table 2-331 AdvancedSettings

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
key	string	O	
value	string	O	

For more information on the Advanced Settings "Keys" and "Values", see PCRF Core Service Configurations "**Settings**" section of "Configuring Policy Using CNC Console" in *Oracle Communications Cloud Native Core, Converged Policy User Guide*.

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Table 2-332 UserConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enableSubscriberVariables	boolean	O	If this switch is enabled, PCRF Core controls the querying and saving of remote subscriber state variables (SSV) on PDS. When CCR message is received by PCRF Core, then it queries PDS to fetch SSV for the user, instead of retrieving it locally. By default, the switch remains disabled.
ldapData.enable	boolean	O	If this is true, PCRF-Core fetches user profile from LDAP through PDS.
ocsSpendingLimit.enable	boolean	O	If this is true, PCRF-Core fetches user profile from 4G OCS.
ocsSpendingLimit.asyncQuery	boolean	O	When this switch is enabled, PCRF Core performs on-demand lookup of Policy Counters for a subscriber.
ocsSpendingLimit.forceLookup	boolean	O	When this switch is enabled, PCRF Core forces OCS lookup for Policy counters for a subscriber.
smPolicyData.enable	boolean	O	If this value is true, PCRF-Core fetches SMPolicyData from nUDR.
smPolicyData.queryOnDelete	boolean	O	Determines if user query from UDR on delete is enabled. When this option is true, PCRF Core queries the UDR about the subscriber present in the SM Association delete request by sending a GET request for “SmPolicyData” resource on the nudr-dr service.
smPolicyData.queryOnReauth	boolean	O	Determines if user query from UDR on reauth is enabled. When this option is true, PCRF Core queries the UDR about the subscriber, when it receives a Reauthorization request, such as Rx or Policy Authorization request by sending a GET request for “SmPolicyData” resource on the nudr-dr service.
smPolicyData.queryOnUpdate	boolean	O	Determines if user query from UDR on update is enabled. When this value is true, PCRF Core queries the UDR about the subscriber present in the SM Association update request by sending a GET request for “SmPolicyData” resource on the nudr-dr service. **Note:** The PDS caches the subscriber profile when the “Subscribe To Notify” option is enabled, in that case, the PCRF core may not always reach the UDR when the subscriber profile is found in the local cache.

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Table 2-332 (Cont.) UserConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
smPolicyData.subscribeToNotify	boolean	O	When this value is true, the PCRF Core subscribes with UDR to get notified for any changes in subscriber profile.
validateUser	boolean	O	If the User profile, for any of the User Data types given under the User Data Types group, is fetched successfully, the user is considered to be a known user. However, if the user profile lookup has failed on all the configured data sources, the user profile is marked as Unknown. If this value is true and user is marked as Unknown, the session creation requests are rejected. If this value is false and user is marked as Unknown, the session creation requests are handled and sessions are created successfully.
smPolicyData.autoEnrollment	boolean	O	To specify whether to enable or disable the autoprovisioning of the subscriber profile at UDR when the subscriber profile is not available.
smPolicyData.default.snssai	string	O	To configure a default S-NSSAI, which will be used when a subscriber is auto-enrolled on the UDR. This parameter is applicable only when Auto-Enrollment on UDR is set to true. The value configured here must match the Default S-NSSAI configured on UDR.
operatorSpecificData.enable	boolean	O	If this switch is enabled, PCRF fetches OperatorSpecificData (imported using Custom Schema) from nUDR.
operatorSpecificData.subscribeToNotify	boolean	O	When this switch is enabled, PCRF Core subscribes to get notified of any changes in the profile. Default Value: true

Table 2-333 MCPTT

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
defaultBearerARP			
Priority Level: enter a range in minutes from [1-15]	integer	O	Indicates the priority level. It ranges between 1-15. Default Value: 1

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Table 2-333 (Cont.) MCPTT

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
Preemption Capability: enter a from [PREEMPTION_CAPABILITY_ENABLED or PREEMPTION_CAPABILITY_DISABLED]	Array	O	Indicates if the preemption cabaility is enabled or disabled. It can take the following values: • PREEMPTION_CAPABILITY_ENABLED • PREEMPTION_CAPABILITY_DISABLED Default Value: PREEMPTION_CAPABILITY_ENABLED
Preemption Vulnerability: enter a from [PREEMPTION_VULNERABILITY_ENABLED or PREEMPTION_VULNERABILITY_DISABLED]	Array	O	Indicates if the preemption vulnerability is enabled or disabled. It can take the following values: • PREEMPTION_VULNERABILITY_ENABLED • PREEMPTION_VULNERABILITY_DISABLED Default Value: PREEMPTION_VULNERABILITY_DISABLED
defaultPreemption Control			
Default Preemption Control Info: enter a from [LEAST_RECENT_ADDED_FLOW or MOST_RECENT_ADDED_FLOW or HIGHEST_BANDWIDTH_FLOW]	Array	O	Includes the Default Preemption Control information: • LEAST_RECENT_ADDED_FLOW • MOST_RECENT_ADDED_FLOW • HIGHEST_BANDWIDTH_FLOW Default Value: LEAST_RECENT_ADDED_FLOW

Table 2-334 AuditConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enable	boolean	M	Determines whether to send registration request to Audit service or not. By default, this switch is `enabled`.
frequency	integer		Defines the frequency by which Audit service notifies to PCRF Core service in one second.
gxSessionMaxTtl	integer		Defines the maximum age of a Gx session after which a record is purged from PCRF Core database (Gx Session table) without sending further queries to PGW.

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Table 2-334 (Cont.) AuditConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
gxSessionTtl	integer		Defines the age of a Gx session after which a record is considered to be stale on PCRF Core and the PGW is queried for presence of such associations.
notificationRate: enter a range in sec from [20-700]	integer		Defines the number of stale records which Audit service notifies to PCRF Core service in one second. Default Value: 50
rxSessionMaxTtl	integer		Defines the maximum age of an Rx session after which a record is purged from PCRF Core database (Rx Session table) without sending further queries to PGW.
rxSessionTtl	integer		Defines the age of an Rx session after which a record is considered to be stale on PCRF Core and the PGW is queried for presence of such associations.
sessionMaxTtl	integer		

Table 2-335 UsageMonServiceConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enable	boolean		Specifies whether to enable or disable Usage Monitoring service for PCRF. By default, this switch is `disabled`.
apnList	List [string]		Specifies the list of APNs for which usage monitoring is enabled. If you leave this field empty, Usage Monitoring is enabled for all APNs.
attributeForwarding			
interfaceType	string		Indicates the interface type for which the profile applies.
messageType	string		Indicates the message type for which the profile applies
forwardingProfile	string		Refers to the configured attribute forwarding Profile.

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Table 2-336 pendingTransactionConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enabled	boolean		Specifies whether to enable or disable pending transaction service for PCRF. By default, this switch is `disabled`.
rarRetryBackoff	Integer		Specifies the time gap between the consecutive retry RAR messages when PGW is sending error response with cause of DIAMETER_PENDING_TRANSACTION and RAR message is triggered by PDS/AF/PRE.
rarRetryCount	Integer		Specifies the count for RAR messages when P-GW is sending error response with cause of DIAMETER_PENDING_TRANSACTION and RAR message is triggered by Notification message from PDS/AF/PRE
userNotifyReauthErrorHandling	List [string]		Specifies if an RAR initiated by User Notification message need to be discarded or retried when it is responded by P-GW with an error of DIAMETER_PENDING_TRANSACTION.
afReauthErrorHandling	List [string]		Specifies if an RAR initiated by AF message should be discarded or retried when it is responded by P-GW with an error of DIAMETER_PENDING_TRANSACTION.
reauthErrorHandling	List [string]		Specifes if an RAR initiated by any message should be discarded or retried when it is responded by P-GW with an error of DIAMETER_PENDING_TRANSACTION.

Sample Request body structure for GET and PUT operations:

```
{
  "advancedSettings": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "user": {
      "validateUser": true,
      "enableSubscriberVariables": false,
      "smPolicyData.enable": false,
      "ldapData.enable": true,
      "ocsSpendingLimit.enable": false,
      "ocsSpendingLimit.forceLookupOnUpdate": false,
      "smPolicyData.subscribeToNotify": true,
      "smPolicyData.queryOnUpdate": false,
      "smPolicyData.queryOnDelete": false,
```


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```
      "smPolicyData.queryOnReauth": false,
      "smPolicyData.autoEnrollment": true,
      "smPolicyData.default.snssai": "string",
      "ocsSpendingLimit.asyncQuery": false,
      "operatorSpecificData.enable": true,
      "operatorSpecificData.subscribeToNotify": true
  },
  "mcptt": {
    "defaultBearerARP": {
      "enter a range in minutes from [1-15]": 1,
      "enter a from [PREEMPTION_CAPABILITY_ENABLED or
PREEMPTION_CAPABILITY_DISABLED]": "PREEMPTION_CAPABILITY_ENABLED",
      "enter a from [PREEMPTION_VULNERABILITY_ENABLED or
PREEMPTION_VULNERABILITY_DISABLED]": "PREEMPTION_VULNERABILITY_DISABLED"
    },
    "defaultPreemptionControl": {
      "enter a from [LEAST_RECENT_ADDED_FLOW or MOST_RECENT_ADDED_FLOW or
HIGHEST_BANDWIDTH_FLOW ]": "LEAST_RECENT_ADDED_FLOW"
    }
  },
  "audit": {
    "enable": true,
    "enter a range in sec from [20-700]": 50,
    "enter a range in minutes from [1-10080]": 1440,
    "gxSessionMaxTtl": 0,
    "enter a range from [0-255]": 5,
    "enter a range in minutes from [1-20160]": 2880,
    "enter a range in minutes from [1-1440]": 330
  },
  "usageMonService": {
    "enable": true,
    "apnList": [
      "string"
    ],
    "attributeForwarding": [
      {
        "interfaceType": "TGPP_GX",
        "messageType": "CCR_INITIAL",
        "forwardingProfile": "string"
      }
    "pendingTransaction": {
        "enabled": true,
        "rarRetryBackoff": "800",
        "rarRetryCount": "2",
        "userNotifyReauthErrorHandling": 1,
        "afReauthErrorHandling": 1,
        "reauthErrorHandling": 1,
        "waitGxUpdateBeforeRejectDuration": 0,
        "skipPolicyOnReauthRetry": true
    }
    ]
  }
}
```


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Export/Import Core Service

Table 2-337 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of core service. For more information, see Get and Update UE Policy
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "topic": "string",
  "sourceVersion": "string",
  "date": "string",
  "exportData": {
    "advancedSettings": [
      {
        "key": "string",
        "value": "string"
      }
    ],
    "user": {
      "validateUser": true,
      "enableSubscriberVariables": false,
      "smPolicyData.enable": false,
      "ldapData.enable": true,
      "ocsSpendingLimit.enable": false,
      "ocsSpendingLimit.forceLookupOnUpdate": false,
      "smPolicyData.subscribeToNotify": true,
      "smPolicyData.queryOnUpdate": false,
      "smPolicyData.queryOnDelete": false,
      "smPolicyData.queryOnReauth": false,
      "smPolicyData.autoEnrollment": true,
      "smPolicyData.default.snssai": "string",
      "ocsSpendingLimit.asyncQuery": false,
      "operatorSpecificData.enable": true,
      "operatorSpecificData.subscribeToNotify": true
    },
    "mcptt": {
      "defaultBearerARP": {
        "enter a range in minutes from [1-15]": 1,
        "enter a from [PREEMPTION_CAPABILITY_ENABLED or
PREEMPTION_CAPABILITY_DISABLED]": "PREEMPTION_CAPABILITY_ENABLED",
```


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```
        "enter a from [PREEMPTION_VULNERABILITY_ENABLED or
PREEMPTION_VULNERABILITY_DISABLED]": "PREEMPTION_VULNERABILITY_DISABLED"
      },
      "defaultPreemptionControl": {
        "enter a from [LEAST_RECENT_ADDED_FLOW or MOST_RECENT_ADDED_FLOW or
HIGHEST_BANDWIDTH_FLOW ]": "LEAST_RECENT_ADDED_FLOW"
      }
    },
    "audit": {
      "sessionMaxTtl": 0,
      "enable": true,
      "enter a range in sec from [20-700]": 50,
      "enter a range in minutes from [1-10080]": 1440,
      "gxSessionMaxTtl": 0,
      "enter a range from [0-255]": 5,
      "enter a range in minutes from [1-20160]": 2880,
      "enter a range in minutes from [1-1440]": 330
    },
    "usageMonService": {
      "enable": true,
      "apnList": [
        "string"
      ],
      "attributeForwarding": [
        {
          "interfaceType": "TGPP_GX",
          "messageType": "CCR_INITIAL",
          "forwardingProfile": "string"
        }
      ]
    }
  }
}
```


2.69 Serving Gateway

Table 2-338 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Serving Gateway	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/sgws	See Table A-3
Export Serving Gateway	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/sgws/export	See Table A-1
Import Serving Gateway	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/sgws/import	See Table A-3

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Table 2-338 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get Serving Gateway	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/sgws/{servingGatewayName}	See Table A-1
Update Serving Gateway	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/sgws/{servingGatewayName}	See Table A-2
Delete Serving Gateway	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/sgws/{servingGatewayName}	See Table A-4

Create, Get, and Update Serving Gateway

Table 2-339 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
description	string		
mccMnc	string		
name	string	M	
sgwIpAddress	array		

Sample Request Body structure for POST and PUT operations:

```
{
  "description": "string",
  "mccMnc": "string",
  "name": "string",
  "sgwIpAddress": [
    "string"
  ]
}
```

Sample Response Body structure for GET, POST and PUT operations:

```
{
  "description": "string",
  "mccMnc": "string",
  "name": "string",
  "sgwIpAddress": [
```


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```
    "string"
  ]
}
```

Export/Import Serving Gateway

Table 2-340 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of serving gateway. For more information, see Table 2-339.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "description": "string",
      "mccMnc": "string",
      "name": "string",
      "sgwIpAddress": [
        "string"
      ]
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "topic": "string"
}
```


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Delete Serving Gateway

Table 2-341 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
servingGatewayName	string	M	Serving Gateway Name

2.70 Network for PGW

Table 2-342 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Network PGW	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/network/pgws	See Table A-3
Export Network PGW	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/network/pgws/export	See Table A-1
Import Network PGW	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/network/pgws/import	See Table A-3
Get Network PGW	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/network/pgws/{networkPGWName}	See Table A-1
Update Network PGW	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/network/pgws/{networkPGWName}	See Table A-2
Delete Network PGW	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/network/pgws/{networkPGWName}	See Table A-4

Create, Get, and Update Network for PGW

Table 2-343 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
backupHostName		O	
capabilities	array	O	

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Table 2-343 (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
capacity	string	O	
description	string	O	
diameterRealm	string	O	
fqdn	string	O	
hostName	string	O	
ipDomainId	string	O	
name	string	M	
neDiameterId	array	O	

Sample Request Body structure for POST and PUT operations:

```
{
  "backupHostName": "string",
  "capabilities": [
    "string"
  ],
  "capacity": "string",
  "description": "string",
  "diameterRealm": "string",
  "fqdn": "string",
  "hostName": "string",
  "ipDomainId": "string",
  "name": "string",
  "neDiameterId": [
    "string"
  ]
}
```

Sample Response Body structure for GET, POST and PUT operations:

```
{
  "backupHostName": "string",
  "capabilities": [
    "string"
  ],
  "capacity": "string",
  "description": "string",
  "diameterRealm": "string",
  "fqdn": "string",
  "hostName": "string",
  "ipDomainId": "string",
  "name": "string",
  "neDiameterId": [
    "string"
  ]
}
```


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Export/Import Network for PGW

Table 2-344 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of network for PGW. For more information, see Table 2-343.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "backupHostName": "string",
      "capabilities": [
        "string"
      ],
      "capacity": "string",
      "description": "string",
      "diameterRealm": "string",
      "fqdn": "string",
      "hostName": "string",
      "ipDomainId": "string",
      "name": "string",
      "neDiameterId": [
        "string"
      ]
    }
  ],
  "key": "string",
  "sourceVersion": "string",
```


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```
  "topic": "string"
}
```

Delete Network for PGW

Table 2-345 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
networkPGWName	string	M	Network PGW Name

2.71 Network for GGSN

Table 2-346 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create Network GGSN	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/network/ggsns	See Table A-3
Export Network GGSN	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/network/ggsns/export	See Table A-1
Import Network GGSN	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/network/ggsns/import	See Table A-3
Get Network GGSN	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/network/ggsns/{networkGGSNName}	See Table A-1
Update Network GGSN	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/network/ggsns/{networkGGSNName}	See Table A-2
Delete Network GGSN	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcrfcore/network/ggsns/{networkGGSNName}	See Table A-4

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Create, Get, and Update Network for GGSN

Table 2-347 Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
backupHostName		O	
capabilities	array	O	
capacity	string	O	
description	string	O	
diameterRealm	string	O	
hostName	string	O	
ipDomainId	string	O	
name	string	M	
neDiameterId	array	O	

Sample Request Body structure for POST and PUT operations:

```
{
  "backupHostName": "string",
  "capabilities": [
    "string"
  ],
  "capacity": "string",
  "description": "string",
  "diameterRealm": "string",
  "hostName": "string",
  "ipDomainId": "string",
  "name": "string",
  "neDiameterId": [
    "string"
  ]
}
```

Sample Response Body structure for GET, POST and PUT operations:

```
{
  "backupHostName": "string",
  "capabilities": [
    "string"
  ],
  "capacity": "string",
  "description": "string",
  "diameterRealm": "string",
  "hostName": "string",
  "ipDomainId": "string",
  "name": "string",
  "neDiameterId": [
    "string"
```


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```
  ]
}
```

Export/Import Network for GGSN

Table 2-348 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors	array		
errors:message	string		
errors:name	string		
exportData	array	M	Exported list of network for GGSN. For more information, see Table 2-347.
key	string		Indicates the ID
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "backupHostName": "string",
      "capabilities": [
        "string"
      ],
      "capacity": "string",
      "description": "string",
      "diameterRealm": "string",
      "hostName": "string",
      "ipDomainId": "string",
      "name": "string",
      "neDiameterId": [
        "string"
      ]
    }
  ],
  "key": "string",
  "sourceVersion": "string",
```


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```
  "topic": "string"
}
```

Delete Network for GGSN

Table 2-349 Request/Response Body Parameters

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
networkGGSNName	string		M	Network GGSN Name

2.72 Audit Service

Table 2-350 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get Audit Service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/audit	See Table A-1
Update Audit Service	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/audit	See Table A-2
Export Audit Service Configuration	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/audit/export	See Table A-1
Import Audit Service Configuration	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/audit/import	See Table A-3

Get and Update Audit Services

Table 2-351 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
auditEnabled	boolean	O	Determines whether to send registration request to Audit service or not. Default Value: True
auditRate	integer	O	Defines the number of stale records which Audit service notifies to Session Management (SM) service in one second. Default Value: 50

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Table 2-351 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
logLevel	String	O	Indicates the log level of PCF Session Management (SM) service.
forcedDeletion.minAttempts BeforeForceDelete	integer	O	Specifies the minimum number of consecutive failed audit attempts until maxTTL / forceTTL is reached. If maxTTL is reached and audit_attempts + 1 >= Minimum Audit Attempts for maxTTL, Audit service sends notification to SM service with maxTTL flag set to true. SM Service sends DELETE request to PDS and Binding Service. **Range**: 0-99 **Default Value**: 0 **Note**: If maxTTL is not reached and if audit attempts are reached, the number of audit attempts are incremented until maxTTL is reached.

Sample Request body structure for PUT operation:

```
{
  "auditEnabled": true,
  "auditRate": 25000,
  "forcedDeletion": {
    "minAttemptsBeforeForceDelete": 5
  }
}
```

Sample Response body structure for GET, POST, and PUT operations:

```
{
  "auditEnabled": true,
  "auditRate": 25000,
  "forcedDeletion": {
    "minAttemptsBeforeForceDelete": 5
  }
}
```


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Export/Import Audit Service s

Table 2-352 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array		Exported list of policy audit service. For more information, see Get and Update Audit Services.
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "exportData": {
    "auditEnabled": true,
    "auditRate": 0
  },
  "sourceVersion": "string",
  "topic": "string"
}
```

Audits Scheduled REST API

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Audit Service Fetch	GET	{apiRoot}/audits/{serviceName}	See Table A-1
Operation Name for Audit	PUT	{apiRoot}/audit/{operationName}	See Table A-2
Audit Service Registration	PUT	{apiRoot}/audits/{serviceName}	See Table A-2
Audit Service Deregistration.	DELETE	{apiRoot}/audits/{serviceName}	See Table A-4

Table 2-353 Request/Response Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
serviceName	string	M	Identifier of the requestor NF service, e.g. pcf-sm

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Table 2-353 (Cont.) Request/Response Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
operationName	string	M	Operation name for audit , e.g. NOW/ PAUSE/RESUME
tableName	string	M	Table name thats need to be audited.

2.73 Binding Service

Table 2-354 Supported REST APIs - Binding Service

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get Binding Service	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/binding	See Table A-1
Update Binding Service	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/binding	See Table A-2
Export Binding Services	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/binding/export	See Table A-1
Import Binding Services	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/binding/import	See Table A-3

Get and Update Binding Service

Table 2-355 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
abortOnBindingError	boolean	O	Determines if PCF (SM service) should abort terminate session when binding error is received.
bindingOperationEnabled	boolean	O	This determines if binding operation (register and deregister) to the BSF is enabled. **Default Value**: TRUE
bsfEnabled	boolean	O	Determines if BSF is enabled or disabled.
bsfNfCommProfile	String	O	Specifies the NF communication profile used by BSF.
bsfRetryProfileForInitMsgs	string	O	Retry Profile to be used when PCF fails to send a create message to a producer node .

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Table 2-355 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
bsfRetryProfileForSubsqtMsgs	string	O	Retry Profile to be used when PCF fails to send an in-session message to a producer node.
defaultBindingOperationMode	Enum	O	Allows users to configure binding operation mode as synchronous or asynchronous.
enableApnFilterBySnssai	boolean	O	This parameter can be used to enable or disable limiting of number of bindings at DNN + SNSSAI + IP domain level at Binding service.
enableSessionLimitByUser	boolean	O	This parameter can be used to enable or disable user level limiting for bindings at Binding service.
maxSessionLimitByApn	integer	O	This parameter can be used to specify the maximum session limit for DNN + SNSSAI + IP domain level.
maxSessionLimitByUser	integer	O	This parameter can be used to specify the maximum session limit for a particular user.
useHttp2	boolean	O	Determines if using http/2 to communicate with BSF. Otherwise use http/1.1. **Default Value**: TRUE
useLocalConfiguredBsfAlways	boolean	O	Whether to use local configured BSF without Always discovering. **Default Value**: FALSE
useLocalConfiguredBsfWhenNotDiscovered	boolean	O	Whether to use local configured (if having) BSF when not discovered or discover failed.**Default Value**: FALSE
enableVSAInRegisterRequest	boolean	O	Determines if PCF sends Vendor-Specific-Attribute in the Binding Create or Register request. By default, the value is set to false.
vendorID	integer	O	**Note**: This field becomes active only when **Enable Vendor Specific Attribute in Register Request** switch is enabled. Specifies the VendorI ID that is mapped to the `vendorId` in the Vendor-Specific-Attribute.

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Table 2-355 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
dataCompressionScheme			Specifies the data compression scheme used by Binding Service. Following are the allowed values for this field: • Disabled • Zlib_Compressed By default, this value remains disabled.
audit	BindingAuditConfiguration	O	Provide Binding Audit Configuration details.
maxSessionCleanupMode	String Enum:[Local, Remote]	O	Binding service uses this flag to send request to SM service for either local or remote session clean up. The allowed values for this flag are: • `Local` • `Remote` On choosing the flag to `Local`, PCF deletes the session locally and does not send notify terminate request toward SMF. **Default Value**: Local
maxSessionForceDeleteOnExpiryOfWaitTimer	integer	O	On `Max Session Cleanup Mode` set to `Remote` this toggle flag appears. It makes `forceDeleteOnExpiryOfWaitTimer` flag to true or false which is used in SM service request for remote cleanup. **Default Value**: false
maxSessionForceDeleteOnError	boolean	O	On `Max Session Cleanup Mode` set to `Remote` this toggle flag appears. It makes `forceDeleteOnError` flag to true or false which is used in SM service request for remote cleanup. On SM service notify terminate request failure and based on `forceDeleteOnError` flag, the session with 4xx and 5xx response status codes are deleted except for the 404 status code. **Default Value**: false
advancedSettings	AdvanceSettings	O	

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Table 2-356 BindingAuditConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enable	boolean	O	Determines whether to send registration request to Audit service or not. **Default Value**: True
enter a range in sec from [20-700] **Notification Rate (per second)**	integer	M	Defines the number of stale records which Audit service notifies to Binding service in one second. The allowed value ranges 20 to 700 seconds. **Default Value**: 50
enter a range in minutes from [1-10080] **Binding Age (in minutes)**	integer	M	Defines the binding age in minutes, of the binding entry after which Binding service deletes the stale sessions. **Range**: 1-10080
minAuditAttempts **Minimum Audit Attempts**	integer	M	Specifies the minimum number of consecutive failed audit attempts until maxTTL / forceTTL is reached. If maxTTL is reached and audit_attempts + 1 >= Minimum Audit Attempts for maxTTL, Audit service sends notification to Binding Service with maxTTL flag set to *true*. Binding Service deletes the corresponding contextbinding information from its database. **Range**: 0-255 **Default Value**: 0 **Note**: If maxTTL is not reached and if audit attempts are reached, the number of audit attempts are incremented until maxTTL is reached.
enter a range in minutes from [1-1440] **Minimum Audit Passes Interval (in minutes)**	integer		Minimum audit passes interval in minutes. **Range**: 1-1440

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Table 2-356 (Cont.) BindingAuditConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
audit.frequency	Integer	O	Defines the time when next audit for the Binding service table is done after delta time if auditing this table has been finished before this specified time. **Default Value**: 15

Table 2-357 AdvancedSettings

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
key	string	O	Specifies the key name.
value	string	O	Specifies the value of the key.

For more information on the Advanced Settings "Keys" and "Values", see "Binding Service" section of "Configuring Policy Using CNC Console" in *Oracle Communications Cloud Native Core, Converged Policy User Guide*.

Sample Response body structure for Binding Service GET and PUT operation:

```
{
"bsfEnabled": true,
"useLocalConfiguredBsfAlways": false,
"useLocalConfiguredBsfWhenNotDiscovered": true,
"useHttp2": true,
"abortOnBsfError": false,
"maxSessionLimitByUser": 10,
"maxSessionLimitByApn": 2,
"enableSessionLimitByUser": true,
"enableApnFilterBySnssai": true,
"enableVSAInRegisterRequest": false,
"dataCompressionScheme": "0",
"audit": {
    "enable": true,
    "enter a range in sec from [20-700]": 50,
    "enter a range in minutes from [1-10080]": 7200,
    "minAuditAttempts": 5,
    "enter a range in minutes from [1-1440]": 330
  },
,
"maxSessionCleanupMode": "Local",
"maxSessionForceDeleteOnExpiryOfWaitTimer": false,
"maxSessionForceDeleteOnError": false,
"advancedSettings": [
  {
```


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```
      "key": "string",
      "value": "string"
    }
  ]
}
}
```

Import and Export Binding Service

Table 2-358 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
errors.message			The reason of the failure.
errors.name			Name of the components that failed to export or import.
exportData	array		Exported list of Binding Service. For more information, see Get and Update Binding Service.
key	string		Indicates the ID
sourceVersion	string		System version of product from which data is exported
topic	string		Topic of each managed object

Sample Request Body structure for Binding Service Import and Export operations:

```
{
  "topic": "string",
  "sourceVersion": "string",
  "date": "string",
  "errors": [
    {
      "name": "string",
      "message": "string"
    }
  ],
  "exportData": {
    "bsfRetryProfileForInitMsgs": "string",
    "bsfEnabled": true,
    "useLocalConfiguredBsfAlways": true,
    "useLocalConfiguredBsfWhenNotDiscovered": true,
    "useHttp2": true,
    "abortOnBsfError": true,
    "bsfRetryProfileForSubsqtMsgs": "string",
    "enter a range in number from [1-100]": 2,
    "enableSessionLimitByUser": true,
    "enableApnFilterBySnssai": true,
```


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```
    "bindingServiceNfCommProfile": "string",
    "enableVSAInRegisterRequest": true,
    "enter a 6 digit Vendor ID": "000111",
    "dataCompressionScheme": "string",
    "audit": {
      "enable": true,
      "enter a range in sec from [20-700]": 50,
      "enter a range in minutes from [1-10080]": 7200,
      "minAuditAttempts": 5,
      "enter a range in minutes from [1-1440]": 330
    },
    "maxSessionCleanupMode": "Local",
    "maxSessionForceDeleteOnExpiryOfWaitTimer": true,
    "maxSessionForceDeleteOnError": true,
    "advancedSettings": [
      {
        "key": "string",
        "value": "string"
      }
    ]
  }
}
```

2.74 NF Communication Profile

This section describes the service URIs available to create and configure NF communication profiles for CNC Policy.

Table 2-359 Supported REST APIs - NF Communication Profile

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Create NF Communication Profile	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/nfcommprofiles	See Table A-3
Get NF Communication Profile	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/nfcommprofiles/{nfCommunicationProfileName}	See Table A-1
Update NF Communication Profile	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/nfcommprofiles/{nfCommunicationProfileName}	See Table A-2
Export NF Communication Profiles	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/nfcommprofiles/export	See Table A-1

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Table 2-359 (Cont.) Supported REST APIs - NF Communication Profile

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Import NF Communication Profiles	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/nfcommprofiles/import	See Table A-3
Delete NF Communication Profile	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/nfcommprofiles/{nfCommunicationProfileName}	See Table A-4

Get, Create, and Update NF Communication Profile

This section describes the request and response parameters used in NF communication profile APIs.

Table 2-360 Request and Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
nfCommunicationProfileName	string	M	The unique name for the NF communication profile. This name is used to refer to the profile in other service configuration screen, such as SM Service, User Connector, and so on. The name can only contain the characters A–Z, a–z, 0–9, period (.), hyphen (-), and underline (_). The maximum length is 255 characters.
policyNfCommunicationModel	String	O	Indicates the communication model, in which the Policy NF is deployed. Provide any of the following values: • CUSTOM • Model_B • Model_C • Mode_D Default value: CUSTOM

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Table 2-360 (Cont.) Request and Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
nfDiscoverySettings.discoveryParameters	DiscoveryParam	M **Note:** This parameter is mandatory when either of the following attributes is set to true: • `sendDiscoveryHeaderInitMsg` • `sendDiscoveryHeaderSubsMsg`	Indicates the discovery parameter to be used in the 3gpp-sbi-discovery-<discovery-parameter>. This parameter is ignored when the "policyNfCommunicationModel" is set to **MODEL_B**.
nfDiscoverySettings.sendDiscoveryHeaderInitMsg	boolean	O	This value indicates if PCF must include the following 3gpp-sbi-discovery-<discovery-parameter> parameters in SBI messages: • Parameters that create a subscription, such as POST messages • Parameters that do not belong to a subscription, such as GET or PATCH messages Default value: False, for Custom model. This attribute is ignored when "policyNfCommunicationModel" is set to any value other than **CUSTOM**.

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Table 2-360 (Cont.) Request and Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
nfDiscoverySettings.sendDiscoveryHeaderSubsMsg	boolean	O	This value indicates if PCF must include the following 3gpp-sbi-discovery-<discovery-parameter> parameters in SBI messages: • Parameters to update a subscription, such as PUT messages when unable to fill in a 3gpp-sbi-routing-binding header. • Parameters to delete a subscription, such as DELETE messages when unable to fill in a 3gpp-sbi-routing-binding header. Default value: False, for Custom model. This attribute is ignored when "policyNfCommunicationModel" is set to any value other than **CUSTOM**.
nfDiscoverySettings.sendTargetApiRootHeaderInitMsg	boolean	false	Indicates if PCF must include `3gpp-sbi-target-apiroot` header in initial request messages. If the user selects Model D for Policy NF Communication Model, the value for this parameter must be set to false. For other Policy NF Communication Model values, the default value is true.
onDemandDiscoveryCaching.forceDiscovery	String	O	Indicates whether to cache the NF profiles in NRF clinet or to skip caching and receive the response directly from NRF. Value of this parameter can be 0 or 1. • – When the value of OC-Force-Rediscovery parameter is set to 0, it enables the feature and caches the NF profiles details received from NRF in NRF Client. – When the value of OC-Force-Rediscovery parameter is set to 1, it disables the feature and retrieves the NF profiles directly from NRF while responding to the query from the backend services. **Default value**: 0

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Table 2-360 (Cont.) Request and Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
onDemandDiscoveryCaching.retentionPeriod	String	O	Indicates whether to cache the NF profiles in NRF clinet or to skip caching and receive the response directly from NRF. Value of this parameter can be 0 or 1. • – When the value of OC-Force-Rediscovery parameter is set to 0, it enables the feature and caches the NF profiles details received from NRF in NRF Client. – When the value of OC-Force-Rediscovery parameter is set to 1, it disables the feature and retrieves the NF profiles directly from NRF while responding to the query from the backend services. **Default value**: 0
nfBindingSettings.bindingLevel	boolean	M **Note:** This parameter is mandatory when the `sendBindingHeader` parameter is set to true.	Indicates the binding level that must to be included in the 3gpp-sbi-binding header when PCF adds this header in a message to another NF. Provide any of the following values: • NF_SET • NF_INSTANCE
nfBindingSettings.sendBindingHeader	boolean	O	Indicates if PCF includes the 3gpp-sbi-binding header in SBI messages for the subscription creation, modification, or notification requests and responses, as applicable. Default value: False, for Custom model. This attribute is ignored when "policyNfCommunicationModel" is set to any value other than "Custom".

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Table 2-360 (Cont.) Request and Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
nfBindingSettings.sendServiceName	boolean	O	Indicates whether to enable or disable the support for sending service name in binding header. Possible values: • true: includes `svcname` in the Binding Header sent towards NFs such as UDR, AMF, or BSF (customized) except for CHF, which contains the 3GPP defined PCF service name. • false: does not include `svcname` in the Binding Header. **Default value** : false
nfBindingSettings.sendRoutingBindingHeader	boolean	O	Indicates if PCF includes the *3gpp-sbi-routing-binding* header in SBI messages for the subscription creation, modification, or notification requests, as applicable. Default value: False
nfBindingSettings.sendCallbackHeader	boolean	O	Indicates if PCF includes the 3gpp-sbi-callback header in SBI messages for the subscription creation, modification, or notification requests, as applicable. Default value: False, for Custom model. This attribute is ignored when "policyNfCommunicationModel" is set to any value other than **CUSTOM**. For more information, see Table 2-361
nfServerSettings	NFServerSettings	O	Specifies the server header settings for the NF communication profile.
nfServerSettings.sendServerHeader	Boolean	O	Indicates if services Converged Policy microservices include server header while sending an error response.
nfServerSettings.serverHeaderErrorCodes	String	O	Specifies the error codes for which service header is generated. The error codes can be from 100 to 999. **Note**: If no error is specified, then Converged Policy sends server header for all error responses.
retryAndAlternateRoutingSettings.retryProfileInitMsg	string	O	Specifies the retry or alternate routing options when an SBI message is not delivered successfully in any of the following scenarios: • POST operation to create a subscription • GET or PATCH request not belonging to a subscription

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Table 2-360 (Cont.) Request and Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
retryAndAlternateRoutingSettings.retryProfileSubsMsg	string	O	Specifies the retry or alternate routing options when an SBI message that updates, deletes or notifies a subscription is not delivered successfully.
nfCorrelationSettings.sendCorrelationHeader	string	O	Indicates whether to carry subscriber identifier included in SBI messages and can be used for SBI message correlation. **Default Value**: false
nfCorrelationSettings.allowedCorrelationInfoIdType	string	O	Displays the types of values that can be included in Correlation-info Header. Currently only SUPI and GPSI are supported.

Defult Header Values

The following table informs about the default values of Binding headers for each of the supported communication models:

Table 2-361 Defult Header Values for Communication Model

Flags	Model B	Model C	Model D	Custom
Send Target Api Root Header in Initial Message	True	True	False	True
Send Discovery Header In Initial Messages	False	False	True	False
Send Discovery Header In Subsequent Messages	False	False	True	False
Send Binding Header	True	True	True	False
Send Routing Binding Header	False	True	True	False
Send Callback Header	False	True	True	False

Sample Request body for NF Communication Profile POST and PUT operations:

```
{
  "nfCommunicationProfileName": "string",
  "policyNfCommunicationModel": "CUSTOM",
  "nfDiscoverySettings": {
    "discoveryParameters": [
      {
        "paramName": "TARGET_NF_SET_ID",
```


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```
        "paramValue": "string"
      }
    ],
    "sendDiscoveryHeaderInitMsg": false,
    "sendDiscoveryHeaderSubsMsg": false,
    "sendTargetApiRootHeaderInitMsg": false
  },
 "onDemandDiscoveryCaching": {
    "forceDiscovery": 0,
    "retentionPeriod": 10000
  },
  "nfBindingSettings": {
    "bindingLevel": "NF_SET",
    "sendBindingHeader": false,
    "sendServiceName": false
    "sendRoutingBindingHeader": false,
    "sendCallbackHeader": false
  },
  "nfServerSettings": {
    "sendServerHeader": true,
    "serverHeaderErrorCodes": [
      0
    ]
  },
  "retryAndAlternateRoutingSettings": {
    "retryProfileInitMsg": "string",
    "retryProfileSubsMsg": "string"
  },
  "nfCorrelationSettings": {
    "sendCorrelationHeader": true,
    "allowedCorrelationInfoIdType": [
      "imsi"
    ]
  }
}
```

Sample Response body structure for NF Communication Profile GET, POST, and PUT operation:

```
{
  "nfCommunicationProfileName": "string",
  "policyNfCommunicationModel": "CUSTOM",
  "nfDiscoverySettings": {
    "discoveryParameters": [
      {
        "paramName": "TARGET_NF_SET_ID",
        "paramValue": "string"
      }
    ],
    "sendDiscoveryHeaderInitMsg": false,
    "sendDiscoveryHeaderSubsMsg": false,
    "sendTargetApiRootHeaderInitMsg": false
  },
 "onDemandDiscoveryCaching": {
    "forceDiscovery": 0,
```


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```
    "retentionPeriod": 10000
  },
  "nfBindingSettings": {
    "bindingLevel": "NF_SET",
    "sendBindingHeader": false,
    "sendRoutingBindingHeader": false,
    "sendCallbackHeader": false
  },
  "nfServerSettings": {
    "sendServerHeader": true,
    "serverHeaderErrorCodes": [
      0
    ]
  },
  "retryAndAlternateRoutingSettings": {
    "retryProfileInitMsg": "string",
    "retryProfileSubsMsg": "string"
  },
  "nfCorrelationSettings": {
    "sendCorrelationHeader": true,
    "allowedCorrelationInfoIdType": [
      "imsi"
    ]
  }
}
```

Import and Export NF Communication Profile

Table 2-362 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string	O	Current timestamp
error.message	string	O	The reason of the failure.
error.name	string	O	Name of the components that failed to export or import.
exportData	array	M	Exported list of NF Communication Profile. For more information, see Get, Create, and Update NF Communication Profile.
key	string	O	Indicates the ID of NF Communication Profile.
sourceVersion	string	O	System version of product from which data is exported
topic	string	M	Topic of each managed object

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Sample Request Body structure for NF Communication Profile Import and Export operations:


```
{
  "date": "string",
  "errors": [
    {
      "message": "string",
      "name": "string"
    }
  ],
  "exportData": [
    {
      "nfBindingSettings": {
        "bindingLevel": "NF_SET",
        "sendBindingHeader": false,
        "sendCallbackHeader": false,
        "sendRoutingBindingHeader": false
      },
      "nfCommunicationProfileName": "string",
      "nfDiscoverySettings": {
        "discoveryParameters": [
          {
            "paramName": "DATA_SET",
            "paramValue": "string"
          }
        ],
        "sendDiscoveryHeaderInitMsg": false,
        "sendDiscoveryHeaderSubsMsg": false,
        "sendTargetApiRootHeaderInitMsg": false
      },
      "nfServerSettings": {
        "sendServerHeader": true,
        "serverHeaderErrorCodes": [
          0
        ]
      },
      "policyNfCommunicationModel": "CUSTOM",
      "retryAndAlternateRoutingSettings": {
        "retryProfileInitMsg": "string",
        "retryProfileSubsMsg": "string"
      }
    }
  ],
  "key": "string",
  "sourceVersion": "string",
  "systemVersion": "string",
  "topic": "string"
}
```


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2.75 PDS Settings

Table 2-363 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export PDS Settings	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pds/pdsSettings/export	See Table A-1
Import PDS Settings	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/pds/pdsSettings/import	See Table A-3
Get PDS Settings	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pds/pdsSettings	See Table A-1
Update PDS Settings	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/pds/pdsSettings	See Table A-2

Get and Update PDS Settings

Table 2-364 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
audit.enable	boolean	O	Specifies whether to send registration request to Audit service or not.
audit.notificationRate	integer	M	Specifies the number of stale records which Audit service notifies to PDS service in one second.
audit.pdsProfileMinAuditPassInterval	integer	M	Specifies the minimum interval (in minutes) between start times of two consecutive audit passes for the pdssubscriber table.
audit.pdsProfileSessionAge	integer	M	Specifies the age (in minutes) of PDS profile (GPSI-SUPI-NAI mapping) after which the profile is considered to be stale in Policy and PDS subscriber table is queried for presence of such associations.
audit.pdsProfileSessionMaxAge	integer	M	Specifies the age (in minutes) of PDS profile (GPSI-SUPI-NAI mapping) after which the profile is purged from the database without sending any queries to PDS subscriber table.

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Table 2-364 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
audit.subscriberMinAuditPassInterval	integer	M	Specifies the minimum interval (in minutes) between start times of two consecutive audit passes for the pdssubscriber table.
audit.subscriberSessionAge	integer	M	Specifies the age (in minutes) of PDS subscriber entry after which a record is considered to be stale on Policy and services (SM, AM, UE, and PCRF Core) are queried for presence of such associations.
audit.subscriberSessionMaxAge	integer	M	Specifies the age (in minutes) of PDS subscriber entry after which a record is purged from the database and no query requests are sent to services for presence of such associations.
common.enableFetchAndResubscribe	boolean	O	If the value for this parameter is set to true, PDS refetches the data and revalidates the subscription when the number of sessions exceeds the configured limit at PDS.
common.enableHttp2	boolean	O	If the value for this parameter is set to true, the HTTP2 remains enabled. By default, HTTP2 remains disabled.
common.requestTimeout	string	O	If PDS Setting is updated then set the timeout as 3000 for the initial flow to succeed.
common.typeOfSearch	string	O	Specifies the PDS query search for a PdsProfile. By default, Multi-UE ID Search is set.
common.preferenceOrder	array	O	If typeOfSearch parameter is set to Preferential Search, then the user can select the search index in order of their preference. Possible values for preferenceOrder are : ["SUPI", "GPSI"], ["GPSI", "SUPI"], ["GPSI"], ["SUPI"].
common.sessionCountPerDnnList	SessionCountPerDnnList	O	If enableFetchAndResubscribe parameter is set to true, user can configure the number of sessions per DNN using this group of parameters.
pcrf_core_bas_uri	string	O	Specifies the base URI of the PCRF Core service.
remoteSSVRootPath.amPolicyData	string	M	Specifies the root path of subscriber state variables under amPolicyData.

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Table 2-364 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
remoteSSVRootPath.enableEndSessionSSVRemoteToUDR	boolean	O	Specifies if the dynamic write should happen at the time of policy execution or at the end of the last session for a subscirber.
remoteSSVRootPath.operatorSpecificData	string	M	Specifies the path of subscriber state variables under operatorSpecificData.
remoteSSVRootPath.smPolicyData	string	M	Specifies the path of subscriber state variables under SMPolicyData. You can provide multiple paths separated by commas.
remoteSSVRootPath.spendingLimitData	string	M	Specifies the path of subscriber state variables under SpendingLimitData.
remoteSSVRootPath.uePolicySet	string	M	Specifies the path of subscriber state variables under uePolicySet.

Table 2-365 SessionCountPerDnnList

Parameter Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
dnn	string	O	Specifies the Data Network Name. The allowed expression for DNN is [^[A-Za-z0-9-.]+$]. Spaces and other characters are not allowed. (NA allowed)
maxSessionsCount	integer	O	Specifies the number of sessions after which PDS refetches and revalidates subscriptions. You can enter a number from 1 to 20.
sd	string	O	Specifies the Slice Differentiator Name. The allowed expression for SD is ^([A-Fa-f0-9]+|NA)$. Spaces and other characters are not allowed.
sst	string	O	Specifies the Slice or Service Type name in the S-NSSAI. You can enter a number from 0 to 255 or NA.

Sample Request body structure for PUT operations:

```
{
  "audit": {
    "enable": true,
    "notificationRate": 50,
    "pdsProfileAge": 4500,
```


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```
    "pdsProfileMaxAge": 8820,
    "pdsProfileMinAuditPassInterval": 1170,
    "subscriberMinAuditPassInterval": 390,
    "subscriberSessionAge": 1500,
    "subscriberSessionMaxAge": 2940
  },
  "common": {
    "enableFetchAndResubscribe": true,
    "enableHttp2": true,
    "requestTimeout": "string",
    "typeOfSearch": "Preferential Search",
    "preferenceOrder": [
        "SUPI",
        "GPSI"    ],
    "sessionCountPerDnnList": [
      {
        "dnn": "string",
        "maxSessionsCount": 1,
        "sd": "string",
        "sst": 0
      }
    ]
  },
  "remoteSSVRootPath": {
    "amPolicyData": [
      "string"
    ],
    "enableEndSessionSSVRemoteToUDR": true,
    "operatorSpecificData": [
      "string"
    ],
    "smPolicyData": [
      "string"
    ],
    "spendingLimitData": [
      "string"
    ],
    "uePolicySet": [
      "string"
    ]
  }
}
```


Sample Response body structure for GET and PUT operations:


```
{
  "audit": {
    "enable": true,
    "notificationRate": 50,
    "pdsProfileAge": 4500,
    "pdsProfileMaxAge": 8820,
    "pdsProfileMinAuditPassInterval": 1170,
    "subscriberMinAuditPassInterval": 390,
    "subscriberSessionAge": 1500,
    "subscriberSessionMaxAge": 2940
```


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```
  },
  "common": {
    "enableFetchAndResubscribe": true,
    "enableHttp2": true,
    "requestTimeout": "string",
    "sessionCountPerDnnList": [
      {
        "dnn": "string",
        "maxSessionsCount": 1,
        "sd": "string",
        "sst": 0
      }
    ]
  },
  "remoteSSVRootPath": {
    "amPolicyData": [
      "string"
    ],
    "enableEndSessionSSVRemoteToUDR": true,
    "operatorSpecificData": [
      "string"
    ],
    "smPolicyData": [
      "string"
    ],
    "spendingLimitData": [
      "string"
    ],
    "uePolicySet": [
      "string"
    ]
  }
}
```

Sample Response Body structure for PUT and POST operations for SessionCountPerDnnList

```
{
  "remoteSSVRootPath": {},
  "common": {
    "enableHttp2": false,
    "requestTimeout": "1000",
    "enableFetchAndResubscribe": true,
    "sessionCountPerDnnList": [
      {
        "sst": "11",
        "sd": "abc123",
        "dnn": "internet",
        "maxSessionsCount": 1
      }
    ]
  },
  "audit": {
    "enable": true,
    "notificationRate": 50,
```


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```
    "subscriberSessionAge": 1500,
    "subscriberSessionMaxAge": 2940,
    "subscriberMinAuditPassInterval": 10,
    "pdsProfileAge": 4500,
    "pdsProfileMaxAge": 8820,
    "pdsProfileMinAuditPassInterval": 10
  },
  "advancedSettings": []
}
```

Sample Response Body structure for PUT and POST operations for SessionCountPerDnnList (subscription revalidation of uePolicySetData and amPolicyData

```
{
  "remoteSSVRootPath": {},
  "common": {
    "enableHttp2": false,
    "requestTimeout": "1000",
    "enableFetchAndResubscribe": true,
    "sessionCountPerDnnList": [
      {
        "sst": "NA",
        "sd": "NA",
        "dnn": "NA",
        "maxSessionsCount": 1
      }
    ]
  },
  "audit": {
    "enable": true,
    "notificationRate": 50,
    "subscriberSessionAge": 1500,
    "subscriberSessionMaxAge": 2940,
    "subscriberMinAuditPassInterval": 10,
    "pdsProfileAge": 4500,
    "pdsProfileMaxAge": 8820,
    "pdsProfileMinAuditPassInterval": 10
  },
  "advancedSettings": []
}
```

For more information on the Advanced Settings "Keys" and "Values", see "**PDS settings**" section of "Configuring Policy Using CNC Console" in *Oracle Communications Cloud Native Core, Converged Policy User Guide*.

Export and Import PDS Settings

Table 2-366 Request and Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp

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Table 2-366 (Cont.) Request and Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
exportData	array	M	Exported list of PDS settings.
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import and Export operations:

```
{
  "date": "string",
  "exportData": {
    "audit": {
      "enable": true,
      "notificationRate": 50,
      "pdsProfileAge": 4500,
      "pdsProfileMaxAge": 8820,
      "pdsProfileMinAuditPassInterval": 1170,
      "subscriberMinAuditPassInterval": 390,
      "subscriberSessionAge": 1500,
      "subscriberSessionMaxAge": 2940
    },
    "common": {
      "enableFetchAndResubscribe": true,
      "enableHttp2": true,
      "requestTimeout": "string",
      "sessionCountPerDnnList": [
        {
          "dnn": "string",
          "maxSessionsCount": 1,
          "sd": "string",
          "sst": 0
        }
      ]
    },
    "remoteSSVRootPath": {
      "amPolicyData": [
        "string"
      ],
      "enableEndSessionSSVRemoteToUDR": true,
      "operatorSpecificData": [
        "string"
      ],
      "smPolicyData": [
        "string"
      ],
      "spendingLimitData": [
        "string"
```


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```
      ],
      "uePolicySet": [
        "string"
      ]
    }
  },
  "sourceVersion": "string",
  "topic": "string"
}
```

2.76 PDS Workflow

Table 2-367 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export PDS Workflows	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pds/pdsWorkflow/export	See Table A-1
Import PDS Workflows	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/pds/pdsWorkflow/import	See Table A-3
Get PDS Workflows	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/pds/pdsWorkflow	See Table A-1
Update PDS Workflows	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/pds/pdsWorkflow	See Table A-2
Delete PDS Workflow	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/services/pds/pdsWorkflow	See Table A-4

Get and Update PDS Workflows

Table 2-368 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
workflows	boolean		Specifies the PDS worflow.

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Table 2-368 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
type	string		Specifies the PDS workflow type. The values can be chosen as: • **Default** - On selecting this option, the default PDS behavior applies. • **Charging Profile selection based on User Profile** - On selecting this option, you can configure whether to select user profile from LDAP or UDR. • **Charging Profile selection based on Notification** - On selecting this option, you can configure to select user profile based on Notification from UDR. • **Datasource selection based on PRE** - On selecting this option, you can configure to select datasource based on PRE. • **Custom** - For a custom workflow, contact Oracle Policy engineering team and paste the workflow in JSON format provided by the team.
subtype	string		On selecting the **Charging Profile selection based on Notification** workflow type, the Profile type can be selected as: • LDAP • UDR

Sample Request/Response body structure for GET and PUT operations:

```
{
  "workflows": {},
  "type": "string",
  "subtype": "string"
}
```


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Export/Import PDS Workflows

Table 2-369 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData	array	M	Exported list of PDS Workflows.
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "topic": "string",
  "sourceVersion": "string",
  "date": "string",
  "exportData": {
    "workflows": {},
    "type": "string",
    "subtype": "string"
  }
}
```

2.77 Policy Engine

Table 2-370 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export Policy Engine	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/policyengine/export	See Table A-1
Import Policy Engine	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/policyengine/import	See Table A-3

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Export/Import Policy Engine

Table 2-371 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	string		Current timestamp
exportData.loglevel	string		
exportData.supportedServices.relativeUrl	string		
exportData.supportedServices.serviceLabel	string		
exportData.supportedServices.serviceName	string		
sourceVersion	string		System version of the product from which data is exported
topic	string	M	Topic of each managed object

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "exportData": {
    "logLevel": "WARN",
    "supportedServices": [
      {
        "relativeUrl": "string",
        "serviceLabel": "string",
        "serviceName": "string"
      }
    ]
  },
  "sourceVersion": "string",
  "topic": "string"
}
```

2.78 NWDAF Agent

Table 2-372 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Get NWDAF Agent Service configuration	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/nwdafAgent	See Table A-1
Update NWDAF Agent Service configuration	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/nwdafAgent	See Table A-2

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Table 2-372 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI	Possible Result Code
Export NWDAF Agent Service configuration	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/nwdafAgent/export	See Table A-1
Import NWDAF Agent Service configuration	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/nwdafAgent/import	See Table A-3
Create Autonomous Subscription	POST	{apiRoot}/oc-cnpolicy-configuration/v1/autonomousSubscription/sliceLoadLevel	See Table A-3
Get Autonomous Subscription	GET	{apiRoot}/oc-cnpolicy-configuration/v1/autonomousSubscription/sliceLoadLevel/{sliceLoad}	See Table A-1
Update Autonomous Subscription	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/autonomousSubscription/sliceLoadLevel/{sliceLoad}	See Table A-2
Delete Autonomous Subscription	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/autonomousSubscription/sliceLoadLevel/{sliceLoad}	See Table A-4
Get All Autonomous Subscription	GET	{apiRoot} /oc-cnpolicy-configuration/v1/autonomousSubscription/sliceLoadLevel/export	See Table A-1
Import Autonomous Subscription	POST	{apiRoot}/oc-cnpolicy-configuration/v1/autonomousSubscription/sliceLoadLevel/import	See Table A-3

Get and Update NWDAF Agent

Table 2-373 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)	Description
advancedSettings	array	M	List of key/value pair

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Table 2-374 SmAdvancedSettings

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
key	string	O	Specifies the key name.
value	string	O	Specifies the value of the key.

Sample Request body structure for GET and PUT operations:

```
{
  "advancedSettings": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

Export/Import Session Management Service

Table 2-375 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
date	String	O	Current timestamp
exportData.advancedSettings	array	O	List of key/value pair
exportData.advancedSettings.key	string	O	Specifies the key name
exportData.advancedSettings.value	string	O	Specifies the value of the key
sourceVersion	String	O	Version of the source
systemVersion	String	O	Version of the system
topic	String	M	

Sample Request Body structure for Import/Export operations:

```
{
  "date": "string",
  "exportData": {
    "advancedSettings": [
      {
        "key": "string",
        "value": "string"
      }
    ]
  },
  "sourceVersion": "string",
  "systemVersion": "string",
```


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```
  "topic": "string"
}
```

Slice Load Level

Table 2-376 Get, Put, Post, and Update Slice Load Level

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
immRep	Boolean	O	Indication of immediate reporting
snssai	String	M	Identification of network slice to which the subscription applies.
threshold	Integer	M	Indication of slice load level in percentage

Sample Request body structure for GET and PUT operations:

```
{
  "immRep": true,
  "snssai": "string",
  "threshold": 0
}
```

Export/Import Slice Load Level

Table 2-377 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
Date	string	O	Current timestamp
Errors	array	O	List of errors
Errors.Message	string	O	Error message
Errors.Name	string	O	Name of the error
exportData	array	O	Exported list of session rule profiles.
exportData.immRep	Boolean	O	Indication of immediate reporting
exportData.snssai	String	O	Identification of network slice to which the subscription applies.
exportData.threshold	Integer	O	Indication of slice load level in percentage
sourceVersion	string	O	System version of product from which data is exported
topic	string	M	Topic of each managed object

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Sample Request Body structure for Import/Export operations:

```
[
  {
    "date": "string",
    "errors": [
      {
        "message": "string",
        "name": "string"
      }
    ],
    "exportData": [
      {
        "immRep": true,
        "snssai": "string",
        "threshold": 0
      }
    ],
    "sourceVersion": "string",
    "topic": "string"
  }
]
```

2.79 Notifier Service

This section describes the APIs used to configure Notifier Service.

2.79.1 Notifier Configurations

This URI is used to configure the Notifier Service from CNC Console to send SMPP messages to external notification servers.

Table 2-378 Supported REST APIs that can be configured from CNC Console

Description	HTTP Method or Custom Operation	Resource URI
To update Notifier Service configuration	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/services/notifier For details on Request/Response Body Parameters for PUT notify, see Table 2-379.
To get individual Notifier Service configuration	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/notifier For details on Request/Response Body Parameters for GET smsGateway, see Table 2-379.
To export Notifier Service configuration.	GET	{apiRoot}/oc-cnpolicy-configuration/v1/services/notifier/export

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Table 2-378 (Cont.) Supported REST APIs that can be configured from CNC Console

Description	HTTP Method or Custom Operation	Resource URI
To import Notifier Service configuration.	POST	{apiRoot}/oc-cnpolicy-configuration/v1/services/notifier/import For details on Request/Response Body Parameters for POST smsGateway, see Table 2-379

Table 2-379 Request/Response Body Parameters for Notifier Configurations

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
smppConfiguration.isEnabled	string	M	Enables the Subscriber Notification using SMPP Protocol. **Default Value**: false
smppConfiguration.sourceAddr	string	O	ESME Source Address. By default this field is empty.
smppConfiguration.defaultSmsGatewayGroup	String	M	All the SMS Gateways that are created in SMS GATEWAY CONFIGURATION page.
smppConfiguration.connectTimeoutMillis	String	M	Indicates the SMS Gateway Connection Timeout in milliseconds. **Range**: 1-60000 **Default Value**: 30000
smppConfiguration.responseTimeoutMillis	String	M	Indicates the timeout (in milliseconds) for the response going towards SMS Gateway. **Range**: 1-60000 **Default Value**: 10000
smppConfiguration.sourceAddrTON	string	O	Indicates the ESME Source address type of number: • UNKNOWN • INTERNATIONAL • NATIONAL • NETWORK_SPECIFIC • SUBSCRIBER_NUMBER • ALPHANUMERIC • ABBREVIATED **Default Value**: UNKNOWN

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Table 2-379 (Cont.) Request/Response Body Parameters for Notifier Configurations

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
smppConfiguration.sourceAddrNpi	String	O	ESME Source Address Number Plan Indicator: • UNKNOWN • ISDN (E163/E164) • DATA (X, 121) • TELEX • LAND_MOBILE • NATIONAL • PRIVATE • ERMES • INTERNET • WAP **Default Value**: UNKNOWN
advancedSettings			To configure the Keys and values for advanced settings.

Sample Request/Response body structure for PUT operation:

```
{
"smppConfiguration": {
"isEnabled": true,
"sourceAddr": "3.3.2.2",
"defaultSmsGatewayGroup": "gateway1",
"connectTimeoutMillis": 30000,
"responseTimeoutMillis": 10000,
"sourceAddrTon": "UNKNOWN",
"sourceAddrNpi": "UNKNOWN"
},
"advancedSettings": []
}
```

2.79.2 SMS Gateway

This URI is used to configure the SMS Gateway.

Table 2-380 Supported REST APIs to configure SMS Gateway

Description	HTTP Method or Custom Operation	Resource URI
To get the configuration of a particular SMS Gateway.	GET	{apiRoot}/oc-cnpolicy-configuration/v1/smsGateway/{smsGatewayName} Where <smsGatewayName> is the SMS Gateway name.

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Table 2-380 (Cont.) Supported REST APIs to configure SMS Gateway

Description	HTTP Method or Custom Operation	Resource URI
To delete the configuration of a particular SMS Gateway.	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/smsGateway/{smsGatewayName} Where <smsGatewayName> is the SMS Gateway name.
To update the configuration of a particular SMS Gateway.	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/smsGateway/{smsGatewayName} Where <smsGatewayName> is the SMS Gateway name. For details on Request/Response Body Parameters for PUT smsGateway, see Table 2-381
To create a new SMS Gateway.	POST	{apiRoot}/oc-cnpolicy-configuration/v1/smsGateway/ For details on Request/Response Body Parameters for POST smsGateway, see Table 2-381
To export the list of all the SMS Gateways.	GET	{apiRoot}/oc-cnpolicy-configuration/v1/smsGateway/{export}
To import the list of all the SMS Gateways.	POST	{apiRoot}/oc-cnpolicy-configuration/v1/smsGateway/{import} For details on Request/Response Body Parameters for POST smsGateway.import, see Table 2-381

Table 2-381 Request/Response Body Parameters for PUT/POST operations on smsGateway

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
description	string	O	Free-form text that identifies the SMS Gateway server within the network. Enter up to 250 characters. By default, the value is left empty.
name		M	Enter the name of the SMS Gateway server. The name can be lower case alphanumeric characters, '-' or '.', and must start and end with an alphanumeric character. By default, the value is left empty.
primarySmscHost		M	Enter the Host Name of the primary SMSC Host server. By default, the value is left empty.

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Table 2-381 (Cont.) Request/Response Body Parameters for PUT/POST operations on smsGateway

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
requestDeliveryReceipt		O	Specify the mode of delivery receipt. This field accepts the following integer values: • 0 to indicate REQUEST_DELIVERY_RECEIPT_NO • 1 to indicate REQUEST_DELIVERY_RECEIPT_SUCCESS_FAILURE • 2 to indicate REQUEST_DELIVERY_RECEIPT_FAILURE **Default Value**: 0
maxByteLength		O	Maximum number of bytes allowed for the message. The length of the message can range between 1 to 254 bytes. **Default Value**: 140
longMsgMaxByteLength		O	Maximum number of bytes allowed in a long message. The length of the message can range between 1 to 999 bytes. **Default Value**: 500
longMessageEnabled		M	Enables the long messages. **Default Value**: true
longMessageDeliveryMethod		M	Specify the long message delivery method. It can take the following integer values: • 0 to indicate SEGMENTATION AND REASSEMBLY (SAR) to deliver the long messages in segments • 1 to indicate the MESSAGE_PAYLOAD to deliver the long messages in payload **Default Value**: 0
truncateLongMessages		M	Indicates whether to truncate messages longer than the specified length. **Default Value**: false
failMaxMessageSize		M	Specifies the maximum length of the message after which the message fails. **Default Value**: true

Sample Request/Response body structure for PUT smsGateWay operation:

```
{

    "description": "testing",
  "name": "test",
  "primarySmscHost": "host_3",
```


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```
  "requestDeliveryReceipt": 2,
  "maxByteLength": 140,
  "longMsgMaxByteLength": 500,
  "longMessageEnabled": true,
  "longMessageDeliveryMethod": 0,
  "truncateLongMessages": false,
  "failMaxMessageSize": true

}
```

Sample Request/Response body structure for POST smsGateWay.import operation:

```
{
   "topic": "common.notifierservice.smsgateway",
  "sourceVersion": "1.6.0",
  "date": "2023-03-14T08:01:48Z",
  "exportData": [
    {

    "description": "testing",
  "name": "test",
  "primarySmscHost": "host_3",
  "requestDeliveryReceipt": 2,
  "maxByteLength": 140,
  "longMsgMaxByteLength": 500,
  "longMessageEnabled": true,
  "longMessageDeliveryMethod": 0,
  "truncateLongMessages": false,
  "failMaxMessageSize": true

}]

}
```

2.79.3 SMSC HOST Info

This URI is used to configure the SMSC Host.

Table 2-382 Supported REST APIs to configure SMS Gateway

Description	HTTP Method or Custom Operation	Resource URI
To get the SMSC Host name.	GET	{apiRoot}/oc-cnpolicy-configuration/v1/smscHostInfo/{smscHostName}
To delete the SMSC Host name.	DELETE	{apiRoot}/oc-cnpolicy-configuration/v1/smscHostInfo/{smscHostName}

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Table 2-382 (Cont.) Supported REST APIs to configure SMS Gateway

Description	HTTP Method or Custom Operation	Resource URI
To update the configuration of a particular SMSC Host.	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/smscHostInfo/{smscHostName} For details on Request/Response Body Parameters for PUT smscHostInfo.smscHostName, see Table 2-383
To create a new SMSC Host.	POST	{apiRoot}/oc-cnpolicy-configuration/v1/smscHostInfo/{smscHostName} For details on Request/Response Body Parameters for POST smscHostInfo.smscHostName, see Table 2-383
To export the list of all the SMSC Hosts.	GET	{apiRoot}/oc-cnpolicy-configuration/v1/smscHostInfo/{export}
To import the list of all the SMSC Hosts.	POST	{apiRoot}/oc-cnpolicy-configuration/v1/smscHostInfo/{import} For details on Request/Response Body Parameters for POST smsHostInfo.import, see Table 2-383

Table 2-383 Request/Response Body Parameters for PUT/POST smscHostInfo.smscHostName.

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	M	Enter the name of the SMSC Host server. The name can be lower case alphanumeric characters, '-' or '.', and must start and end with an alphanumeric character. By default, the value is left empty.
host	String	M	Enter the Host Name of the SMSC server. The host can be Ipv4, Ipv6 or FQDN with optional port value. By default, the value is left empty.
port	Integer	M	Enter the Port number of the SMSC server. Range: 0-65535 By default, the value is left empty.

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Sample Request/Response body structure for PUT/POST operations:

```
{
    "name": "host_2",
    "host": "1.1.1.9",
    "port": 8002

}
```

Sample Request/Response body structure for POST operation to import the details:

```
{

"topic": "common.notifierservice.smschost",
  "sourceVersion": "1.6.0",
  "date": "2023-03-15T13:21:02Z",
  "exportData": [
    {
      "name": "host_4",
      "host": "1.1.1.7",
      "port": "8000"
    }]

}
```

2.80 Usage Monitoring

This section describes the APIs used to configure Usage Monitoring service.

2.80.1 Usage Monitoring Service

Table 2-384 Supported operations

HTTP Method or Custom Operation	Description	Resource URI
GET	Get Usage Monitoring Service	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfum For details on the Request/ Response Body Parameters, see Table 2-385
PUT	Update Usage Monitoring Service	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfum For details on the Request/ Response Body Parameters, see Table 2-385
POST	Import Usage Monitoring Service	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfum/import For details on the Request/ Response Body Parameters, see Table 2-385

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Table 2-384 (Cont.) Supported operations

HTTP Method or Custom Operation	Description	Resource URI
GET	Export Usage Monitoring Service	{apiRoot}/oc-cnpolicy-configuration/v1/services/pcfum/export For details on the Request/ Response Body Parameters, see Table 2-385

Table 2-385 Request/Response Body Parameters for GET/PUT/POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
enablePRE	Boolean	M	Indicates whether to enable or disable interaction with PRE for Policy evaluation as per the match list.
dataRolloverProfile	String	O	Indicates the default data rollover profile to use for UDR provided data limits for which rollover is applicable. That is, "Data Rollover" attribute is set to "true" and a separate "Data Rollover Profile" attribute is not provided.
enableQuotaMigration	String	O	Indicates whether 4G to 5G UDR Quota Data Migration is in progress. If so, Policy considers the custom attributes from 4G UDR for quota calculation and update. **Default value**: false **Note**: Disabling this flag while 4G to 5G Subscriber Data Migration is incomplete may result in Quota loss. It is recommended to not fallback to 4G PCRF once this flag is disabled as after this, the data provided to 4G PCRF may NOT be up to date.

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Table 2-385 (Cont.) Request/Response Body Parameters for GET/PUT/POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
reversePriority	String	O	Indicates the priority consideration order. When this flag is enabled: Higher number indicates lower priority When this flag is disabled: Higher number indicates higher priority **Default value**: `true`
enableProRatedQuota	String	O	Iindicates whether pro-rated data calculation should be applied to the selected plan at a time of activation or not. **Default value**: false
enableProRatedQuotaForBillingDayChange	String	O	Iindicates whether pro-rated data calculation should be applied to the selected plan at a time obilling day change . **Default value**: false
minimumVolumeGrant	Integer	M	Enter the minimum grant value (in bytes) that can be approved for volume based usage monitoring. If the grant value published by PRE is less than the value for this field, then Policy considers the minimum grant value out of the two. After deducting the current grant, if the remaining grant value is less than the minimum grant value, then the remaining grant is also added to the current grant. **Default value**: 2048 **Range**: 512 - 1048576 (1MB)

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Table 2-385 (Cont.) Request/Response Body Parameters for GET/PUT/POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
maximumVolumeGrant	Integer	M	Enter the maximum grant value (in bytes) that can be approved for volume based usage monitoring. If the grant value published by PRE is greater than the value for this field, then Policy considers the maximum grant value out of the two. **Default value**: 2048 **Range**: 1024 - 107374182400 (100 GB)
minimumTimeGrant	Integer	M	Enter the minimum grant value (in seconds) that can be approved for time based usage monitoring. If the grant value published by PRE is less than the value for this field, then Policy considers the minimum grant value out of the two. After deducting the current grant, if the remaining grant value is less than the minimum grant value, then the remaining grant is also added to the current grant. **Default value**: 300 **Range**: 30 - 3600 (1 hour)
maximumTimeGrant	Integer	M	Enter the maximum grant value (in seconds) that can be approved for time based usage monitoring. If the grant value published by PRE is greater than the value for this field, then Policy considers the maximum grant value out of the two. **Default value**: 300 **Range**: 60 - 86400 (1 hour)

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Table 2-385 (Cont.) Request/Response Body Parameters for GET/PUT/POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
inactivityTime	Integer	O	Enter the time interval (in seconds) during which if no packets are received for a given monitoring key, PGW or SMF stops measuring the time. **Default value**: 86400 **Range**: 0 - 604800 (7 Days)
usageAccumulationStartDateTime	Enumeration	O	Select the start time and date from when the Usage Monitoring service starts counting the usage reset periodicity. The values are: • Plan Start Date and Time: Counted from the plan start date and time as provisioned on the UDR. • Plan Activation Date and Time: Counted from the plan activation date and time as provisioned on the UDR. • Period Start Date and Time: Counted from the period start date and time.
applyBillingDay	String	O	Indicates if the flexible billing cycle option is enabled. The accepted values are: • Current Billing Cycle • Next Billing Cycle **Default value**: Next Billing Cycle

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Table 2-385 (Cont.) Request/Response Body Parameters for GET/PUT/POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
dataCompressionScheme	String	O	Used to configure the data compression in UmContext table. This flag accepts the following values: • `Disabled`: Indicates that the data will not be compressed and will be stored in the column in uncompressed format. The value of `COMPRESSION_SCHEME` for that row is set to the default value 0. • `MySQL Compressed`: Indicates that the data will be compressed using MySQL and will be stored in the column in compressed format. The value of `COMPRESSION_SCHEME` for that row is set to 1. • `Application Compressed`: Indicates that the data will be compressed using Zlib and will be stored in the column in compressed format. The value of `COMPRESSION_SCHEME` for that row is set to 2. **Default value**: Disabled When accessing the data from `UmContext .v`, the application determines the compression status based on the value of `COMPRESSION_SCHEME` and does the decompression accordingly.

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Table 2-385 (Cont.) Request/Response Body Parameters for GET/PUT/POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
			For more details on data compression, see *Usage Monitoring on Gx Interface* in *Oracle Communications Cloud Native Core, Converged Policy User Guide*.
weekStartDay	Enumeration	O	Enter the starting day of the week. **Default value**: Sunday
defaultVolumeGrant.grantVolumeSource	Enumeration	O	**Note**: This field becomes active when you select Grant Unit as Percent. Accepts one of the following values: • Initial Volume: Calculate grant volume from the initial volume. • Used Volume: Calculate grant volume from the used volume. • Remaining Volume: Calculate grant volume from the remaining volume. **Default value**: Initial Volume
defaultVolumeGrant.grantVolumeUnit	Enumeration	O	Accepts one of the following values: • Percent: Grant volume is calculated as a percentage. • Bytes: Grant volume is calculated as an absolute value. **Default value**: Percent

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Table 2-385 (Cont.) Request/Response Body Parameters for GET/PUT/POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
defaultVolumeGrant.grantVolumeValue	Integer	M	**If Grant Unit is Percent**: Enter the default Grant Volume in percentage, which is considered when PRE is not invoked or PRE does not return a decision. This value is applied to the Total Volume and divided equally among the Uplink and Downlink Volumes when available. **Default value**: 10 **Range**: 1-100 When the grant value is 0 and Grant is not calculated by PRE, then volume based Usage Monitoring is disabled for the session. **If Grant Unit is Bytes**: Enter the default Grant Volume in Bytes, which is considered when PRE is not invoked or PRE does not return a decision. This value is applied to the Total Volume and divided equally among the Uplink and Downlink Volumes when available. **Default value**: 2048 **Range**: 512 - 1048576 (1 MB) When the grant value is 0 and Grant is not calculated by PRE, then volume based Usage Monitoring is disabled for the session.

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Table 2-385 (Cont.) Request/Response Body Parameters for GET/PUT/POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
defaultTimeGrant.grantTimeSource	Enumeration	O	**Note**: This field becomes active when you select Grant Unit as Percent. Accepts one of the following values: • Initial Duration: Calculate grant time from the initial duration. • Used Duration: Calculate grant time from the used duration. • Remaining Duration: Calculate grant time from the remaining duration. **Default value**: Initial Volume
defaultTimeGrant.grantTimeUnit	Enumeration	O	Accepts one of the following values: • Percent: Grant time is calculated as a percentage. • Seconds: Grant time is calculated as an absolute value. **Default value**: Percent

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Table 2-385 (Cont.) Request/Response Body Parameters for GET/PUT/POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
defaultTimeGrant.grantTimeValue	Integer	M	**If Grant Unit is Percent**: Enter the default Grant time in percentage, which is considered when PRE is not invoked or PRE does not return a decision. **Default value**: 10 **Range**: 1-100 When the grant value is 0 and grant is not calculated by PRE, then time based Usage Monitoring is disabled for the session. **If Grant Unit is Seconds**: Enter the default Grant time in seconds, which is considered when PRE is not invoked or PRE does not return a decision. **Default value**: 3600 **Range**: 30 - 86400 (1 day) When the grant value is 0 and grant is not calculated by PRE, then time based Usage Monitoring is disabled for the session.
defaultUsageLevels.minorUsageLevel	Integer	M	Enter threshold value in percentage indicating minor usage. **Default value**: 50
defaultUsageLevels.majorUsageLevel	Integer	M	Enter threshold value in percentage indicating major usage. **Default value**: 75
defaultUsageLevels.criticalUsageLevel	Integer	M	Enter threshold value in percentage indicating critical usage. **Default value**: 95

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Table 2-385 (Cont.) Request/Response Body Parameters for GET/PUT/POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
defaultUsageLevels.exhaustedUsageLevel	Integer	M	Enter threshold value in percentage indicating usage level has exhausted allowed limit. **Default value**: 100
customAttributeMapping.resetDay	String	O	Enter a string identifying the custom attribute in UDR response that represents the usage reset day. Example: SmPolicyData/umDataLimits/{limitId}/billingDay
customAttributeMapping.dataPlanName	String	O	Maps the custom attribute available in the UDR provided data limit to name. A "name" associated with the data limit can be used in a Selection Profile to select the plan to apply when multiple active plans are found.Default vlaue: SmPolicyData/umDataLimits/{limitId}/name
customAttributeMapping.dataPlanPriority	String	O	Maps the custom attribute available in the UDR provided data limit to priority. A "priority" associated with the data limit would help to select the plan to apply when multiple active plans are found. Possible values allowed in this field in UDR Data Limit are: any integer. **Default value**: SmPolicyData/umDataLimits/{limitId}/priority

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Table 2-385 (Cont.) Request/Response Body Parameters for GET/PUT/POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
customAttributeMapping .dataPlanType	String	O	Maps the custom attribute available in the UDR provided data limit to type. A "type" associated with the data limit would help to order the selection of the plan. Possible values allowed in this field in UDR Data Limit are: "base", "pass", "top-up". A separate configuration would order the selection, for example: Pass > Base Plan > Top-up. **Default value**: SmPolicyData/ umDataLimits/{limitId}/ type Default value to apply if this mapped attribute is absent: base The Plan Type, Priority within that Plan Type and the Selection Order of Plan Types together decide the order of selection of Data Plans.
customAttributeMapping .dataRollover	String	O	Maps the custom attribute available in the UDR provided data limit to indicate whether rollover is enabled for this data limit. Possible values allowed in this field in UDR Data Limit are: "true" and "false". **Default value**: SmPolicyData/ umDataLimits/{limitId}/ rollover Default value to apply if this mapped attribute is absent: false

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Table 2-385 (Cont.) Request/Response Body Parameters for GET/PUT/POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
conflictResolution.enableEtag	Boolean	O	Indicates if the ETag functionality is enabled or disabled between PDS and UDR. By default, this is disabled. Following scenarios may occur if it is enabled: • When the Usage Monitoring service sends a GET request for the first time, then PDS will fetch latest ETag details from UDR and update it in THE pdssubscriber table. • when the Usage Monitoring service sends PATCH request to PDS, PDS sends the request to UDR using if-match header. UDR matches the ETag of PDS with UDR. If it matches, then UDR replies with the latest ETag that gets udpated on PDS. • If the If-Match headers failS, it means ETag on PDS does not match with UDR. UDR replies with 412 error response and based on the response code, Usage Monitoring service sends a force request to PDS to get the latest ETag from UDR and update it on PDS database.
conflictResolution.conflictRetryAttempt	Integer	O	Specifies the number of retry the Usage Monitoring service will do when if-match will fail on UDR.Default value: 5

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Table 2-385 (Cont.) Request/Response Body Parameters for GET/PUT/POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
dataLimitSelection	Reference	O	Indicates the data limit selection profile to use while selecting a data limit among more than one active data limits provided by UDR.
audit.enable	Boolean	O	Used to enable or disable the Audit registration for Usage Monitoring service. When this field is enabled, Usage Monitoring sends registration request to Audit service.When this field is disabled, Usage Monitoring sends de-registration request to Audit service. **Default value**: true
audit.notificationRate	Integer	O	Indicates the number of stale records that Audit service notifies to Usage Monitoring service in one second.
audit.ttl	Integer	O	Indicates the age of a Usage Monitoring session, after which the session is considered to be stale and the PCRF Core service is queried for the presence of such associations. **Note**: This value should be higher than the Gx session audit.
audit.maxTtl	Integer	O	Indicates the maximum age of a UMPolicyAssociation, after which the session is purged from UMContext database without sending further queries. **Note**: This value should be higher than the Gx session audit.

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Table 2-385 (Cont.) Request/Response Body Parameters for GET/PUT/POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
audit.minAuditAttempts	Integer	O	Indicates the minimum number of queries to PCRF Core service before deleting a session.
audit.frequency	Integer	O	Defines the time when next audit for the Usage Monitoring service table is done after delta time if auditing this table has been finished before this specified time.

Table 2-386 MessageDefaultPriorityUMService

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
enter a range from [0-31]	String	O	Defines the discard message priority for different Usage Monitoring API end points.**Allowed Values**: 0-31
umCongestionErrorCode	String	O	Configure the response code of the rejected messages by Usage Monitoring due to congestion state. By default, Usage Monitoring service sends 503 as response code. If configured then it shall be 5xx only. **Allowed Values**: 5xx **Default Value**: 503

Sample Request/Response body structure for GET operation:

```
{
  "enablePRE": false,
  "enter a range in bytes from [512-1048576]": 2048,
  "enter a range in bytes from [1024-1000000000000]": 2048,
  "enter a range in seconds from [30-3600]": 300,
  "enter a range in seconds from [60-86400]": 300,
  "enter a range in seconds from [0-604800]": 86400,
  "dataRolloverProfile": "string",
```


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```
  "enableQuotaMigration": "string",
  "reversePriority": "string",
  "enableProRatedQuota": "string",
  "enableProRatedQuotaForBillingDayChange": "string",
  "UsageAccumulation StartDateTime should be one of PLAN_START,
PLAN_ACTIVATION, PERIOD_START.": "PLAN_START",
  "Week Start Day should be one of SUNDAY, MONDAY, TUESDAY, WEDNESDAY,
THURSDAY, FRIDAY or SATURDAY.": "SUNDAY",
  "NEXT_BILLING_CYCLE, CURRENT_BILLING_CYCLE": "NEXT_BILLING_CYCLE",
  "dataCompressionScheme": "0",
  "defaultVolumeGrant": {
    "Grant Volume Source should be one of INITIAL_VOLUME, USED_VOLUME,
REMAINING VOLUME.": "INITIAL_VOLUME",
    "Grant Volume Source should be one of VOLUME_PERCENT, VOLUME_BYTES.":
"VOLUME_PERCENT",
    "grantVolumeValue": 0
  },
  "defaultTimeGrant": {
    "Grant Time Source should be one of INITIAL_DURATION, USED_DURATION,
REMAINING_DURATION.": "INITIAL_DURATION",
    "Grant Time Source should be one of TIME_PERCENT, TIME_BYTES.":
"TIME_PERCENT",
    "grantTimeValue": 0
  },
  "defaultUsageLevels": {
    "enter a range in Percent from [0-100]": 100
  },
  "customAttributeMapping": {
    "enter a Reset Day, such as 'SmPolicyData/umDataLimits/{limitid}/
billingDay'.": "string",
    "enter a Data Plan name, such as 'SmPolicyData/umDataLimits/{limitid}/
name'.": "string",
    "enter a Data Plan Priority, such as 'SmPolicyData/umDataLimits/{limitid}/
priority'.": "string",
    "enter a Data Plan Type, such as 'SmPolicyData/umDataLimits/{limitid}/
type'.": "string",
    "enter a Data Rollover, such as 'SmPolicyData/umDataLimits/{limitid}/
rollover'.": "string",
    "enter a Data Rollover Profile, such as 'SmPolicyData/umDataLimits/
{limitid}/rolloverProfile'.": "string"
  },
  "conflictResolution": {
    "enableEtag": true,
    "conflictRetryAttempt": 0
  },
  "dataLimitSelection": {
    "selectionRules": [
      {
        "Enter Integer Value": 0,
        "limitIdentifier": "string",
        "conditions": [
          {
            "Parameter Name should be SERVING_NODE_LOCATION.":
"SERVING_NODE_LOCATION",
            "Operator should be one of MATCH or EQUAL.": "MATCH",
            "value": "string"
```


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```
          }
        ]
      }
    ],
    "sortingRules": [
      {
        "Enter Integer Value": 0,
        "Sorting Parameter Name should be one of RESET_PERIOD, START_DATE,
END_DATE.": "RESET_PERIOD",
        "Sorting Order should be one of ASC, DSC.": "ASC"
      }
    ],
    "defaultDataLimitSelectionProfile": "string",
    "defaultDataLimitProfile": "string",
    "defaultDataLimitSortProfile": "string",
    "selectionOrder1": "base",
    "selectionOrder2": "base",
    "selectionOrder3": "base"
  },
  "audit": {
    "enable": true,
    "enter a range in sec from [20-700]": 50,
    "enter a range in minutes from [1-10080]": 7200,
    "minAuditAttempts": 5,
    "enter a range in minutes from [1-1440]": 330
  },
  "messageDefaultPriority": {
    "enter a range from [0-31]": "31",
    "umCongestionErrorCode": "503"
  },
  "advancedSettings": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

For more information on the Advanced Settings "Keys" and "Values", see "**Configuring Usage Monitoring**" section of "Configuring Policy Using CNC Console" in *Oracle Communications Cloud Native Core, Converged Policy User Guide*.

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2.80.2 Attribute Forwarding Profile

Table 2-387 Supported operations

HTTP Method or Custom Operation	Description	Resource URI
GET	Get Attribute Forwarding Profile	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/attributeForwardingProfiles/{attributeForwardingProfileName} where `<attributeForwardingProfileName>` is the attribute forwarding profile name.
PUT	Update Attribute Forwarding Profile	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/attributeForwardingProfiles/{attributeForwardingProfileName} where `<attributeForwardingProfileName>` is the attribute forwarding profile name.
DELETE	Delete Attribute Forwarding Profile	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/attributeForwardingProfiles/{attributeForwardingProfileName} where `<attributeForwardingProfileName>` is the attribute forwarding profile name.
POST	Create Attribute Forwarding Profile	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/attributeForwardingProfiles/ For details on the Request/ Response Body Parameters, see Table 2-388.
POST	Import Attribute Forwarding Profile	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/attributeForwardingProfiles/import For details on the Request/ Response Body Parameters, see Table 2-388.
GET	Export Attribute Forwarding Profile	{apiRoot}/oc-cnpolicy-configuration/v1/services/common/attributeForwardingProfiles/export For details on the Request/ Response Body Parameters, see Table 2-388.

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Table 2-388 Request/Response Body Parameters for GET and POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
forwardedAttribute.attributeName	String	C	Name of the attribute.
forwardedAttribute.attributeSource	Enumeration	M	Source of the attribute to be forwarded. Attribute Source provides the following options: • Request Message: The incoming request message such as Gx CCR message or SM Policy Association Create message. • User Data: Data received from different data sources such as UDR and CHF. • Session Data: Data saved in the session (association) previously, such as saved APN/DNN value.
forwardedAttribute.attributeSelection	Enumeration	M	Attribute Selection can be: • Predefined • Custom
forwardedAttribute.predefinedAttributeLocation	String	C	This parameter can be filled when the Attribute Selection is of Predefined type. It indicates the path/ location at which this attribute can be found by the source (forwarder) micro-service.
forwardedAttribute.attributeLocation	String	C	This parameter can be filled when the Attribute Selection is of Custom type. It indicates the path/ location at which this attribute can be found by the source (forwarder) micro-service.

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Sample Request/Response body structure for GET operation:

```
{
  "name": "string",
  "forwardedAttribute": [
    {
      "attributeName": "string",
      "attributeSource": "enter any one value from
[\"REQUEST\",\"UDR\",\"SESSION\"] ",
      "attributeSelection": "enter value from [\"PREDEFINED\",\"CUSTOM\"]",
      "predefinedAttributeLocation": "string",
      "attributeLocation": "string"
    }
  ]
}
```

2.80.3 UM Data Limit Selection Profile

Table 2-389 Supported Operations

HTTP Method or Custom Operation	Description	Resource URI
GET	Get Usage Monitoring Data Limit Selection Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/datalimitselectionprofiles/{umDataLimitSelectionProfileName} where <umDataLimitSelectionProfileName> is the Data Limit Selection profile name.
PUT	Update Usage Monitoring Data Limit Selection Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/datalimitselectionprofiles/{umDataLimitSelectionProfileName} where <umDataLimitSelectionProfileName> is the Data Limit Selection profile name.
DELETE	Delete Usage Monitoring Data Limit Selection Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/datalimitselectionprofiles/{umDataLimitSelectionProfileName} where <umDataLimitSelectionProfileName> is the Data Limit Selection profile name.

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Table 2-389 (Cont.) Supported Operations

HTTP Method or Custom Operation	Description	Resource URI
POST	Create Usage Monitoring Data Limit Selection Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/datalimitselectionprofiles For details on the Request/ Response Body Parameters, see Table 2-390.
POST	Import Usage Monitoring Data Limit Selection Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/datalimitselectionprofiles/import For details on the Request/ Response Body Parameters, see Table 2-390.
GET	Export Usage Monitoring Data Limit Selection Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/datalimitselectionprofiles/export For details on the Request/ Response Body Parameters, see Table 2-390.

Table 2-390 Request/Response Body Parameters for GET operation

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
name	String	M	Unique name to identify the Data Limit Selection Profile.
selectionRules.type	Enumeration	O	Indicates the selection rules type.
selectionRules.priority	Integer	M	Indicates the selection rule priority.
selectionRules.alwaysMatch	Boolean	M	When this is true, no conditions shall be evaluated. This can be used as a CATCH ALL Selection Rule. Default: False
selectionRules.dataLimitProfile	String	C	Uniquely identifies the UM Data Limit Profile by a name. This field is for configuration purpose only and not transmitted over the network.
selectionRules.limitIdentifier	String	C	Specifies the limit identifier. Multiple limit identifiers may have the same priority.

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Table 2-390 (Cont.) Request/Response Body Parameters for GET operation

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
selectionRules.conditions	Object	M	
selectionRules.conditions.parameterType			Indicates the type of parameter on which the condition will be applied. • Forwarded Attribute - Am attribute forwarded by the core service, for e.g. Serving Gateway MCCMNC / IP Address, APN etc. • Policy Decision Tag - A Tag applied by the policy.
selectionRules.conditions.attributeName	String	C	This field is displayed when Parameter Type is "Forwarded Attribute".
selectionRules.conditions.operator			Accepts the following values: • Equals • Not Equals • Less Than • Greater Than • Matches
selectionRules.conditions.value	String		Displays the list of configured Match Lists when the Operator is "Matches".

Sample Request/Response body structure for GET operation:

```
{
  "name": "string",
  "selectionRules": [
    {
      "type": "DATA_LIMIT_PROFILE",
      "priority": 0,
      "alwaysMatch": true,
      "dataLimitProfile": "string",
      "limitIdentifier": "string",
      "conditions": [
        {
          "application": "Gx",
          "message": "CCR",
          "preDefinedAVPConditions": [
            {
              "conditionName": "CC-Request-Type",
              "conditionCSIDValue": [
```


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"5PuJiOlfDwxZihAhm6NDNp3rY7ikjSQ0zH.x0CSRJcJciVjiGvx7Iom88Ollacqa4nYh5Hjka8AT6
GH5PX7lEvmEBk?N3H-7.S.-,3GBkb1pSVVDAPUUpkVc6pdLFV0JmRFVj9gsX?
19G2O0oWAuUz,pte7QohKf*D.ktAh7vnMv, EynrpYPQeH?EUuRKReKIKzkF,
YEUMYAUC9gPPdz4j6Y**j?BLP3Xa7CJsQZRUB5PdSBPsn2tsB6a-
sqJFU*dX89.wtQclY.9AzpdxyzGOFTWxCGvm, 1a?dm?z5w2jrJyKG-
GZbVLzYufX.t,1oVj3QJbMK4Y*vLph?KhAsd7ruIAXTueMkvR94OBhHAQunvrjJalArfIy?
EslIIQSOrL04,Q-AWRGLoHqn*2QEW3gMnUFtB.pK,PvSQenBHhQCXX1LXa06DFScU?k9kZowN.YJj?
O, 0RDkmNRXEBVSw1M8-8EDltiNZC.McRX?6kFUHb?um0PMokL,09zwYjVPlz79CMcV7y-
*o*mbDcjpwQz,5dCwwVMVL.C07olXnHHeMmovtGtJgOR1Mtbl5E7ChzIq?
hd6sXVNsOxIPf8W2anEce3daMbokR,PjRd9Gp?yAest8tbPHqTiT?
6Hby*k6YoTIZ9c2OckZvoBBN,I780p0n5.olzVYArGFC-oc1G5, lID?
nmOFRiMgFsWFZUruE1QV26oRPbuIQskynUrL.jWi9ZlBfI6lf.5DGKK.dDizZO,LYG1?
JmHmlKoOQ.mWN1al.GhPtlkh340aUjcDN?er84neX07yoLFz-TfBL1vdOoR?
6Ss9fLOhSegQotbN*n7Ry4tkOzaMaMXE, FOdwTd?
mfoi2KJgq5Soq4CMBJCPJh3*Bjz.I5iX9zJPnCK5sqA2I7OqT9zINN?
MS7SBfcEU.65oDMKSLi9pxf, 9J.bxbhlzxS*uL,7zQxMU7-E0.UvSswCvehTx.zSdro?
iPUfjEIyx8aUOn3RUN58S7E*k0Bhdv7Pt?3G9l6gTR.lBb2EgyIpQV*h,XLqE?m*t1YlgeTb,
J9124-LKRRWOP,kfpW*4k?P8wT-cBowa,Dwj*Esm1m23.J0Gw1Ed-TQF*SSoVaEav?-
UqPfXV6nvArIUBnBzJMUqCQwMXDLCM,6vUhHjmyDW?vcnu, euBYyTo5IBxAGOvEyza*wBDjnGiw?
NEqP*QIjoAjdoAjSKA,FdbezK3Cjy4tAHG0ra.7JRyuNT5yxP.vou214201aSy*YeYWhXad?.Vid*x
Ows44hAWT7JByXr4Af8sfvj48nlIGN, AKmPvd7EYo-N.mOYShwpTs-
Vi6UmxtL9u5tli*Ob5RbyNUS,GpnM, LY*juuKhM9Sgu?jkSAds3IS8.2Qzp,
C6BRbywARsHJb6ba4ml20DY.7LIVsKPcG8G.emPqN29sfXnuXAIi3*SL35CTGQp?q6E-
jZwe.45LZt4ILLYt68r*thkd8v32ot,7rQAJnHVB?
UO.o7YvNmktOx.ciYr7Gj3xq70O249ni1SSGauK-QCxCoWcUW9Z.I1jfGzu8wpyeZYxQqvKaRhM?
17ua42r6A, XvLzXPbufOctdRw*w3s4B2x7Al*wVJJ9Ia?5k4xvdPKTGi, UZVg-
ru6HaNWMSl816b5xHTjgO68kdRGT1TaS1Zt1XZ.G2OhuosmCllCYURb,
4qGLNr6Ta.95ralc46qHWlHQSwFwTtQnAD13LW.4*7WDQNk,
tyIXQuZ610fA*tNRMQg,iUB0Nvd8lPXmR1M, 5GlY.9.fGiWcl-
mnubYWUOvKxta,Ut5EY8hyPckHzCULO9c54Bx-Vp3sOI0PTJujddv*nNAPG?hhXb-
lB.Ft02lEH4SknKOWT-44rkvKvyZF3msz4oskJpwArCCEc1, *nY.qw?Wel,
j*S9zMJHwvpsdPoV.46dWO44eIwNyYT7YzQXaSt1q-
f1IRNyo1uGC4fPQPg.U0BzVkiqCOIcDI2r8MEO9haDGb6EU, XNZAJ.HivrBOtMr3LFvCOKIyN?
tXAyw-CCS*PEg,
IwQnNRcICfUnAnIidRhj,ES3eJo2*3xhNc6lJRv*51HoORhDPCpdVgJ.IUV*jpgMlVzkVT4oeR?
5tHOn-F, XtoBTW8j90sZWf36kV6VFxe, qdLVk6SEDSegGunGEZhvulLf01L8.?
ADZ0o*OrfCUIzJEfu5j4LMjGheNtnjgh4B5,A2LKDqSkT3DkXVbJu5Q8YQhEEsjSKCmR,1F8TlHDG4
BAVnq5*anQpC5tK7hHy.I*Pftn4UZuE0j, a, v4zUGHixr.r*St16Xncs3QKFIaU.T,nCt-4uF,
PhRFYU8G4Nc7VHJpvFQExLMA7sQl4ls-nkFtMuBjMXO*6V.?P6Xg, .yJbwc-2P8T-,-
FAlpkvcmBATTv88nK.1OuJNuQeglkE4xqs,JryE0c-
SmixRXk3GJfPf,*cN.Zr6n3IlckTnLlnIaQ.ysiqutpvnIGOr0ZpSjpBVYK?7u.E-
JKWAhvH8nMrZC6nhVpGpmnnvsHzz.qfQ0JIdsdthm6YLuSZ, 1i7jHTDynSj-
T90.mT3egbaVBr*n8-eZVeUfhavn.yELKjbEPSuygrH93pZnZsLXlxcI4afvV1jw8po0lt,0f,
i7YK68T6dqZ6j*WbK6zgPQ73ARnP6PO1cNO, XvUUiwH00?9?
Rz4Hp4UCE9gxHnGy,dWaT7*5ibyG,Jq6MZk8PQzR0LJl5mWhiANdpb8rhy8cPemL7PF?
OPyhFDJdI,Dbh1?*zybcqAmBg9-E4PzG0.oSrRraGWv11ND-OY?dhVgaUj6VJpnHk6N, N?
p7AXv.-8mA6JfG-yc15tnHhqyPBCpMBc1S0,yFpLMhFHqCTKy4TMwbyD8FvwC6bIYNdZdNLF62?
5Zy5l,qX..0-
ommdbaAPmD9kint6SdjIPrbli2,yw1--71B0eSjY6jGNpNR8FNR91rLMch7oZgetxM*gtK,
1CyvRijp,9p0LA,ESEfBchgXXx1bOKkIV7A55J4mNlcIDaTwZUXqrpiG-sMMG6cxhk6T-
otFghPnd4,A-JAshdlc4.yJP*XuyZHOLDRcNf, HhsPiLy?NmixbpEx-6Hf1s6dU7UEpFV?
CFVV3PupWL*bllQk4L454d-zm4xWkaVGwQbtQVqfAY3t4mFxtVCQbvPh2uffhfE,
ZrbXhJTz5IFnm26BTIcpB,FPsCxBP9mNmWT?bySieohK0YR?
Fp7hXIobGruyPKzTkNvFKVVVAmb73V7?sJ7NTLiGsR2L4xIt5saE1p.AKW.P,W1WfcshFbi?
cT3Khh-
wiziCS5fz4nZd2uWnd-1FSd1rcJoIB5vnTkcQjqJ9z29y.MH8K0f6Yq,zAWXxKnF5yXSX8iFpqz4jn

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```
J1if?*N6LnCxDTs6Z, -TShlFXHVYol786*39e3o9?425Q,
0CzKiUXp5N7FtBLEbn8pxdL1DDjgK,JmzzXR7RfG.qE8bidWwO7PayykvzcWHH3kyfPbY6xMUGLwtH
938qQ3t6t0GGvz15ZCWR?kUC?Kcu1Oj?YXkA3,R3gxDFWiEb4ITqFSEw, E5RBdIP,
dJM9GxsKtsUZlIlLub20O5*UAN7c-
BIEczWwGKz0a2zfr7tySHmcxbXRM9Tex3gdv6utZwUCkrVji8pj95OUwMO7vprAU"
              ],
              "conditionCCRTValue": "UPDATE_REQUEST",
              "conditionRxRTValue": [
                "INITIAL_REQUEST"
              ],
              "conditionServiceURNIDValue": [
                "r,Vnj9p.MZlxvBFiLr*YRHTOxCfC*Y*kGmw-kB-8j1JqfnDcgqkfeKHFN1-
GdHS4fvPx*AX5EagP4Xvx0Q2w*dBJrOpT5V, hF847pVFbHqx*yMYr7svKCj2TC?utLpLemQsq?
Ikm0AINKaYbcrOzyZb3AzX?W-i.dnbl7iY80Wvd2.vL1V-5,NBBoxA-
MTK67f9wQ2HDnNsizzFCD8lqH.T,jMurlbEhksKqTZkiaNWodBq8rTw9tBmRVJGeafW?
BjsKNUoM4*F4R-o?, oi-J*D.Bj?JAv0puz0A2ESszsijiU6A-
z2vHqpecCqzKCUsRlToqsNc893aVA.ew3POfG,H5P*BMKAhUpwTRtYHw0C3.?-
hbGuJOSwWmDl6hKgc, 2a*xOi56aFNLcDPndiz,
w3QBy95lwZe0c*TJw.2B7lG9L2um0sE59cToEvuu0SUNLMX4rKaPMqT6*.*VrN*XF,
oUQYzJEEpZSPtmCWU-YkoWuh,jMCmrcRw-nRrBlu7Ci-EDqWW*?wjgbL-
W2ODRfUXW*iIcIFKJwhuW0jk4p1OlJYf03m*7THq4GsdjhF-
QNHYv,7jaCi70sg.XPXsqne9d,3J1Rl*-dfTT4m8?E.D.eYb4h8y*jqmYhblDv08HSF-
T13eXUqOi0KBEvE--rMN,bo?HO9Iy--
wXkBktsx9GBOWZFBcvfGFhUHADsi.lOLRKVBuIVaqQMm6i700feaUpMpFtaiVDw11K??0r8I.r?
stWQ4U,cxKXwGZSZhclPy?XlzQGWgXkyhu1bKm9VXDj5nmAACInhZgk, 3ekMCjB..re2u4?
2DjOyoCNz0J0SJ0eemy9cUPVJx9y7ION8YTvThy7wPsPKQSZvmZe-Ba9bQ*k,mExi2kiTTTtVbNid-
m9jZkH0e5bcR?I2ICD7qvUwlbMLRg1*6pw.MwB5wWXOK8bnoA6LFXdOJfzS7Rmz-
l3wIbjjAFg53U,?RXQ8lQ6LyNVfCut-
WX9eadTgpW1iQy*a3ZtL5l7JJrVDsK7gB98OWj8Mxs9kuRUV,VQVRh0iRHPf21c2HoL1J7uqNQVpfX
JgL?4lM2KhbIHAjKxfvbsV.v5UD8Cl,
vEDZjr9N3PW3DgUgnwlsfpIE8dSv5lrFTYCmfm5xY4HISpgvLcwoOnR*9yj.,Vja26gB7J0A3N,OBM
eELFhseaZ4bvRWizJeUoc3t4YSo., 3zDXsJ3p8uX7WC?LmYfdo6y, GHoE?
2EVniTNRmeaPL7*gnzv3voUCRCJ64xepuMWQDba5GGyTfQ4ZB?ekWUNsW"
              ],
              "conditionMPSIdValue": [
                "string"
              ],
              "conditionMCPTTIdValue": [
                "string"
              ],
              "conditionMCVideoIdValue": [
                "string"
              ],
              "conditionReservPriorityValue": [
                "string"
              ],
              "conditionSNRTypeValue": [
                "ABORT_SESSION_REQUEST"
              ]
            }
          ]
        }
      ]
    }
  ],
  "sortingRules": [
```


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```
    {
      "index": 0,
      "parameterType": "START_DATE",
      "attributeName": "string",
      "order": "string"
    }
  ]
}
```

2.80.4 UM Data Limit Profile

Table 2-391 Supported operations

HTTP Method or Custom Operation	Description	Resource URI
GET	Get Usage Monitoring Data Limit Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/datalimitprofiles/{umDataLimitProfileName} where <umDataLimitProfileName> is the Data Limit profile name.
PUT	Update Usage Monitoring Data Limit Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/datalimitprofiles/{umDataLimitProfileName} where <umDataLimitProfileName> is the Data Limit profile name.
DELETE	Delete Usage Monitoring Data Limit Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/datalimitprofiles/{umDataLimitProfileName} where <umDataLimitProfileName> is the Data Limit profile name.
POST	Create Usage Monitoring Data Limit Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/datalimitprofiles For details on the Request/ Response Body Parameters, see Table 2-392.
POST	Import Usage Monitoring Data Limit Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/datalimitprofiles/import For details on the Request/ Response Body Parameters, see Table 2-392.
GET	Export Usage Monitoring Data Limit Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/datalimitprofiles/export For details on the Request/ Response Body Parameters, see Table 2-392.

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Table 2-392 Request/Response Body Parameters for GET and POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
name	String	M	Uniquely identifies the UM Data Limit Profile by a name. This field is for configuration purpose only and not transmitted over the network.
limitIdentifier	String		Specifies the limit identifier. Multiple limit identifiers may have the same priority.
priority	Integer	O	A Priority to weigh it with other Data Limit Profiles and/or UDR provisioned Data Limits of the same Plan Type. The priority can be used by Policy or Data Limit Selection Profile for choosing among different candidate profiles. The Plan Type, Priority within that Plan Type and the Selection Order of Plan Types together decide the order of selection of Data Plans.
umLevel	Enumeration	M	Indicates the level of the usage monitoring instance (PDU Session level or per Service). **Default value**: Session Level
profileType	Enumeration	M	Type of the Data Limit Profile. **Default value**: SUBSCRIBER **Note**: Striked-out entries are for future.
planType	Enumeration	M	Type of the Plan such as Base, Top-up, and Pass. This help to determine the priority in selecting the plan over other types. The priority is configurable in service configuration screen. **Default value**: Base

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Table 2-392 (Cont.) Request/Response Body Parameters for GET and POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
parentPlan	Reference	O	Identifies a Data Limit Profile as a parent data plan. Any attribute that is not explicitly configured in this plan shall be taken from the parent plan (if present).
usageLimit	Integer	O	Indicates usage limit for this Data Limit Profile. **Default value**: False
resetPeriod	Enumeration	O	Indicates whether the periodicity is "YEARLY", "MONTHLY", "WEEKLY", "DAILY" or "HOURLY". **Default value**: Monthly
resetDay			Enter a string identifying the custom attribute in UDR response that represents the usage reset day. Example: SmPolicyData/umDataLimits/{limitId}/billingDay
excessUsageLimit.percentage	Integer	O	Indicates the percentage of base volume/time up to which excess usage is allowed. **Range**: 100 - 1500 **Note**: If all the Excess Usage Limit fields are left empty, the grant shall continue indefinitely.
excessUsageLimit.duration	Integer	O	Indicates the length of time in seconds. This is inclusive of the base duration. That is the value in this field indicates the total duration to be consumed including base + excess. **Range**: 3600 - 31536000 (1 Year) **Note**: If all the Excess Usage Limit fields are left empty, the grant shall continue indefinitely.

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Table 2-392 (Cont.) Request/Response Body Parameters for GET and POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
excessUsageLimit.volumeTotal	Integer	O	Total data octets for both downlink and uplink. This is inclusive of the base total volume. **Range**: 512 - 1073741824000 (1000 GB) **Note**: If all the Excess Usage Limit fields are left empty, the grant shall continue indefinitely.
excessUsageLimit.volumeUplink	Integer	O	Uplink data octets. This is inclusive of the base uplink volume. **Range**: 512 - 1073741824000 (1000 GB) **Note**: If all the Excess Usage Limit fields are left empty, the grant shall continue indefinitely.
excessUsageLimit.volumeDownlink	Integer	O	Downlink data octets. This is inclusive of the base downlink volume. **Range**: 512 - 1073741824000 (1000 GB) **Note**: If all the Excess Usage Limit fields are left empty, the grant shall continue indefinitely.
inactivityTime	Integer	O	Enter the time interval (in seconds) during which if no packets are received for a given monitoring key, PGW or SMF stops measuring the time. **Default value**: 86400 **Range**: 0 - 604800 (7 Days)

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Table 2-392 (Cont.) Request/Response Body Parameters for GET and POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
dataRolloverProfile	Reference	O	To map the custom attribute available in the UDR provided data limit to a pre-configured rollover profile. See "Data Rollover Profile" for more information. Possible values allowed in this field in UDR Data Limit are: A "Data Rollover Profile" name pre-configured on Policy. **Default value**: SmPolicyData/umDataLimits/{limitId}/rolloverProfile
reversePriority	Boolean	O	Indicates the priority consideration order. When this flag is enabled: Higher number indicates lower priority When this flag is disabled: Higher number indicates higher priority **Default value**: true
allowExcessUsage	Boolean	O	Indicates whether or not excess usage is allowed for this Data Limit Profile. When Excess Usage is allowed, Usage Monitoring shall continue to grant and accumulate usage even after consuming 100% of allocated volume/time. The QoS, Charging etc. parameters can be controlled at PCRF Core Policy on account of the consumed usage. **Default value**: False

Sample Request/Response body structure for GET operation:

```
{
  "name": "string",
  "limitIdentifier": "string",
  "monitoringKey": "string",
  "priority": "string",
  "umLevel": "SESSION_LEVEL",
  "profileType": "SUBSCRIBER",
```


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```
  "planType": "BASE",
  "parentPlan": "string",
  "usageLimit": {
    "Enter in range [3600-2592000]": 3600,
    "Enter in range [512-107374182400]": 512
  },
  "resetPeriod": {
    "period": "MONTHLY",
    "Enter a number": 3
  },
  "resetDay": {
    "type": "FIRST_DAY",
    "day": 0,
    "Enter time in HH:MM:SS format": "00:00:00"
  },
  "excessUsageLimit": {
    "percentage": 1000,
    "duration": 2592000,
    "volumeTotal": 107374182400,
    "volumeUplink": 107374182400,
    "volumeDownlink": 107374182400
  },
  "inactivityTime": "string",
  "dataRolloverProfile": "string",
  "enableQuotaMigration": true,
  "reversePriority": true,
  "allowExcessUsage": true
}
```

2.80.5 Data Limit Sorting Profile

Table 2-393 Supported operations

HTTP Method or Custom Operation	Description	Resource URI
GET	Get Data Limit Sorting Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/dataLimitSortingProfiles/{dataLimitSortingProfileName} where <dataLimitSortingProfileName> is the Data Limit Sorting profile name.
PUT	Update Data Limit Sorting Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/dataLimitSortingProfiles/{dataLimitSortingProfileName} where <dataLimitSortingProfileName> is the Data Limit Sorting profile name.

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Table 2-393 (Cont.) Supported operations

HTTP Method or Custom Operation	Description	Resource URI
DELETE	Delete Data Limit Sorting Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/dataLimitSortingProfiles/{dataLimitSortingProfileName} where <dataLimitSortingProfileName> is the Data Limit Sorting profile name.
POST	Create Data Limit Sorting Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/dataLimitSortingProfiles For details on the Request/ Response Body Parameters, see Table 2-394.
POST	Import Data Limit Sorting Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/dataLimitSortingProfiles/import For details on the Request/ Response Body Parameters, see Table 2-394.
GET	Export Data Limit Sorting Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/dataLimitSortingProfiles/export For details on the Request/ Response Body Parameters, see Table 2-394.

Table 2-394 Request/Response Body Parameters for GET and POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
name	String	M	Name of the Data Limit Sorting Profile
sortingRules.index	Integer	M	Specifies the index. The sorting rules are applied in the order of index.
sortingRules.parameterType			Specifies the type of the parameter.
sortingRules.attributeName	String	C	Specifies the name of the attribute.
sortingRules.order	String	O	Specifies the order.

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Sample Request/Response body structure for GET operation:

```
{
  "name": "string",
  "sortingRules": [
    {
      "index": 0,
      "parameterType": "START_DATE",
      "attributeName": "string",
      "order": "string"
    }
  ]
}
```

2.80.6 Data Rollover Profile

Table 2-395 Supported operations

HTTP Method or Custom Operation	Description	Resource URI
GET	Get Data Rollover Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/dataRolloverProfiles/{dataRolloverProfileName} where <dataRolloverProfileName> is the Data Rollover profile name.
PUT	Update Data Rollover Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/dataRolloverProfiles/{dataRolloverProfileName} where <dataRolloverProfileName> is the Data Rollover profile name.
DELETE	Delete Data Rollover Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/dataRolloverProfiles/{dataRolloverProfileName} where <dataRolloverProfileName> is the Data Rollover profile name.
POST	Create Data Rollover Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/dataRolloverProfile For details on the Request/ Response Body Parameters, see Table 2-396.
POST	Import Data Rollover Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/dataRolloverProfiles/import For details on the Request/ Response Body Parameters, see Table 2-396.

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Table 2-395 (Cont.) Supported operations

HTTP Method or Custom Operation	Description	Resource URI
GET	Export Data Rollover Profile	{apiRoot}/oc-cnpolicy-configuration/v1/policydata/usagemon/dataRolloverProfiles/export For details on the Request/ Response Body Parameters, see Table 2-396.

Table 2-396 Request/Response Body Parameters for GET and POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
name	String	M	Uniquely identifies the Data Rollover Profile by a name.
dataRolloverEnabled	Boolean	M	Indicates whether to enable or disable the data rollover.
rolloverDataConsumption	Enumeration	M	Indicates when to consume the rollover data.
maximumNumberOfRollovers	Integer	M	Indicates how many cycles the data plan can rollover. A value of 0 means there is not limit to the number of cycles the left over data can rollover. **Range**: 0 to 24 **Default value**: 0 (No limit)
dataRolloverPercentage	Integer	M	This field indicates the percentage of left over data volume/time to rollover to the next cycle. **Range**: 0 to 100 **Default value**: 100.
rolloverCap	Boolean	M	Indicates whether to enable or disable a cap (maximum limit) on the total data volume/time to be allotted for the next billing cycle or period. The maximum cap shall be applied on the total of base plan volume/time and total accumulated rolled over volume/time.

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Table 2-396 (Cont.) Request/Response Body Parameters for GET and POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
maximunRolloverThreshold.baseDataPercentage	Integer	O	Indicates the percentage of base plan data volume/time that is allowed as rollover data volume/time. **Range**: 0 to 100
maximunRolloverThreshold.maximunDurationThreshold	Integer	O	Indicates the length of time in seconds. **Range**: 3600 - 2592000 (30 Days)
maximunRolloverThreshold.maximunVolumeTotalThreshold	Integer	O	Total data octets for both downlink and uplink. **Range**: 512 - 107374182400 (100 GB)
maximunRolloverThreshold.maximunVolumeUplinkThreshold	Integer	O	Uplink data octets. **Range**: 512 - 107374182400 (100 GB)
maximunRolloverThreshold.maximunVolumeDownlinkThreshold	Integer	O	Downlink data octets. **Range**: 512 - 107374182400 (100 GB)
minimunRolloverThreshold.minimunDurationThreshold	Integer	O	Indicates the length of time in seconds. The remaining duration if applicable shall be rolled over to the next period if it is greater than the threshold value configured here. **Range**: 0 - 2592000 (30 Days)
minimunRolloverThreshold.minimunVolumeTotalThreshold	Integer	O	Total data octets for both downlink and uplink. The remaining total volume if applicable shall be rolled over to the next period if it is greater than the threshold value configured here. **Range**: 0 - 107374182400 (100 GB)
minimunRolloverThreshold.minimunVolumeUplinkThreshold	Integer	O	Uplink data octets. The remaining uplink volume if applicable shall be rolled over to the next period if it is greater than the threshold value configured here. **Range**: 0 - 107374182400 (100 GB)

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Table 2-396 (Cont.) Request/Response Body Parameters for GET and POST operations

Field Name	Data Type	Mandatory(M)/ Optional (O)/ Conditional (C)	Description
minimunRolloverThreshold.minimunVolumeDownlinkThreshold	Integer	O	Downlink data octets. The remaining downlink volume if applicable shall be rolled over to the next period if it is greater than the threshold value configured here. **Range**: 0 - 107374182400 (100 GB)
rolloverCapSettings.duration	Integer	C	Indicates the length of time in seconds. **Range**: 3600 - 2592000 (30 Days)
rolloverCapSettings.volumeTotal	Integer	C	Total data octets for both downlink and uplink. **Range**: 512 - 107374182400 (100 GB)
rolloverCapSettings.volumeUplink	Integer	C	Uplink data octets. **Range**: 512 - 107374182400 (100 GB)
rolloverCapSettings.volumeDownlink	Integer	C	Downlink data octets. **Range**: 512 - 107374182400 (100 GB)

Sample Request/Response body structure for GET operation:

```
{
  "name": "string",
  "dataRolloverEnabled": true,
  "rolloverDataConsumption": "BEFORE_PARENT_PLAN",
  "maximumNumberOfRollovers": 0,
  "dataRolloverPercentage": 0,
  "rolloverCap": true,
  "maximunRolloverThreshold": {
    "baseDataPercentage": 100,
    "maximunDurationThreshold": 2592000,
    "maximunVolumeTotalThreshold": 107374182400,
    "maximunVolumeUplinkThreshold": 107374182400,
    "maximunVolumeDownlinkThreshold": 107374182400
  },
  "minimunRolloverThreshold": {
    "minimunDurationThreshold": 2592000,
    "minimunVolumeTotalThreshold": 107374182400,
    "minimunVolumeUplinkThreshold": 107374182400,
    "minimunVolumeDownlinkThreshold": 107374182400
  },
  "rolloverCapSettings": {
    "duration": 2592000,
```


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```
    "volumeTotal": 107374182400,
    "volumeUplink": 107374182400,
    "volumeDownlink": 107374182400
  }
}
```

2.81 Acquire lock

Table 2-397 Supported operations:

HTTP Method or Custom Operation	Description	Resource URI
POST	To acquire locks for multiple keys	{apiRoot}/v1/locks For Bulwark service: http://{{BULWARK_HOST}}:{{BULWARK_PORT}}/v1/locks

Sample cURL command for POST operation:

```
curl --location 'http://localhost:8080/v1/locks' \
--header 'oc-origination-request-timestamp: 1718017076394' \
--header 'Content-Type: application/json' \
--data '{
    "keys": [
        {
            "key": "imsi-450081000000030"
        },
        {
            "key": "imsi-450081000000031"
        }
    ],
    "leaseDuration": 2500,
    "lockWaitTimeout": 4000,
    "serviceInfo": {
        "serviceName": "postman",
        "serviceID": "postman",
        "contextInfo": "{\"msgType\":\"MSGTYPE_CREATE\"}"
    }
}'
```

Table 2-398 Request/Response Body Parameters for POST operation:

Field Name	Data Type	Mandatory (M)/ Optional (O)/ Conditional (C)	Description
keys	Array	M	Indicates the key for which the lock is requested

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Table 2-398 (Cont.) Request/Response Body Parameters for POST operation:

Field Name	Data Type	Mandatory (M)/ Optional (O)/ Conditional (C)	Description
leaseDuration	Long	M	Duration in milliseconds for which lock is kept once the acquisition is successful. After this duration, the lock will be released automatically. This is used as default global leaseDuration, if key specific leaseDuration is not provided. Either overall leaseDuration OR key-specific leaseDuration must be present in a request. In case of this field is missing, overall leaseDuration will be considered for a given key. Note: It can be `0` for the requests where they do not want to release lock timeout. It means the lock will be there indefinitely until explicitly released.

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Table 2-398 (Cont.) Request/Response Body Parameters for POST operation:

Field Name	Data Type	Mandatory (M)/ Optional (O)/ Conditional (C)	Description
lockWaitTimeout	Long	C	Duration in milliseconds for which consumer service will wait for the response to get a lock. The same duration would be used by Bulwark to poll for the lock if a lock is not available. This parameter is used as default global lockWaitTimeout, if key specific lockWaitTimeout is not provided. Either overall lockWaitTimeout OR key-specific lockWaitTimeout must be present in a request. In case of this field is missing, overall lockWaitTimeout will be considered for a given key. Note: It can be `0` for the requests where they do not want to wait for lock and respond immediately.
serviceInfo	Array	M	Contains the details of the service requesting the lock, such as service name, service ID, and context.

Table 2-399 Parameters for keys description

Field Name	Data Type	Mandatory (M)/ Optional (O)/ Conditional	Description
keys.key	String	M	Key for which consumer-service is requesting a lock

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Table 2-399 (Cont.) Parameters for keys description

Field Name	Data Type	Mandatory (M)/ Optional (O)/ Conditional	Description
keys.leaseDuration	Long	C	Duration in milliseconds for which lock is kept once the acquisition is successful. After this duration, the lock will be released automatically. Either overall leaseDuration OR key-specific leaseDuration must be present in a request. In case of this field is missing, overall leaseDuration will be considered for a given key. Note: It can be `0` for the requests where they do not want to release lock timeout. It means the lock will be there indefinitely until explicitly released.
keys.lockWaitTimeout	Long	Conditional	Duration in milliseconds for which consumer service will wait for the response to get a lock. The same duration would be used by Bulwark to poll for the lock if a lock is not available. Either overall lockWaitTimeout OR key-specific lockWaitTimeout must be present in a request. In case of this field is missing, overall lockWaitTimeout will be considered for a given key. Note: It can be `0` for the requests where they do not want to wait for lock and respond immediately.

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Table 2-400 Parameters for service name

Field name	Data Type	Mandatory (M)/ Optional (O)/ Conditional (C)	Description
serviceInfo.serviceName	String	M	Service name from which request is sent [SM-Service, AM-Service, UE Policy Service]
serviceinfo.serviceId	String	M	POD-ID of service from which request is sent
serviceinfo.context	String	O	Client's context information kept with a bulwark.

Sample request body structure for GET operation:

```
{
    "keys": [
        {
            "key": "key-1",
            "leaseDuration": 5000,
            "lockWaitTimeout": 1000
        },
        {
            "key": "key-2",
            "leaseDuration": 3000,
            "lockWaitTimeout": 2000
        },
        {
            "key": "key-3",
            "leaseDuration": 2000,
            "lockWaitTimeout": 3000
        }
    ],
    "leaseDuration": 6000,
    "lockWaitTimeout": 3000,
    "serviceInfo": {
        "serviceName": "PCF_SM",
        "serviceID": "pcf-sm-pod1"
        "context": "{"user1": "imsi-1"}"
    }
}
```


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2.82 Release Lock

Table 2-401 Supported operations

HTTP Method or Custom Operation	Description	Resource URI
DELETE	To release the lock with key and lockID.	{apiRoot}/v1/locks/{lockID}?reqParam={unlockRequestBody}

Sample cURL command for DELETE operation:

```
curl --location --request DELETE 'http://localhost:8080/v1/locks/
2a7d69f4-4364-4f6d-af72-0702cb769076?
reqParam=%7B%22keys%22%3A%5B%22imsi-450081000000030%22%2C%22imsi-4500810000000
31%22%5D%2C%22serviceInfo%22%3A%7B%22serviceName%22%3A%22nata%22%2C%22serviceI
D%22%3A%22localhost%22%2C%22contextInfo%22%3A%22%7B%5C%22msgType%5C%22%3A%5C%2
2MSGTYPE_CREATE%5C%22%7D%22%7D%7D%0A'
```

Sample request body structure for DELETE operation:

```
{
  "keys": ["key-1", "key-2", "key-3"],
  "serviceInfo": {
    "serviceName": "PCF_SM",
    "serviceID": "pcf-sm-pod1"
  }
}
```

2.83 Server Retry on already locked keys

Table 2-402 Supported operations

HTTP Method or Custom Operation	Description	Resource URI
PUT	Used to enable / disable the server side retry for already locked keys.	{apiRoot}/nf-common-component/v1/bulwark/settings

Table 2-403 Request/Response Body Parameters for PUT operation:

Field Name	Data Type	Mandatory (M)/ Optional (O)/ Conditional (C)	Description
enabled	Boolean	M	Indicates whether to enable server retry on already locked keys. Default value: false

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Table 2-403 (Cont.) Request/Response Body Parameters for PUT operation:

Field Name	Data Type	Mandatory (M)/ Optional (O)/ Conditional (C)	Description
maxPendingLockRequestsPerKey	Integer	M	Indicates the maximum number of pending lock requests allowed per key. Range: 1 to 10 Default value: 5

Sample request body structure for PUT operation:

```
{

    "serverRetryOnAlreadyLocked": {
        "enabled": true,
        "maxPendingLockRequestsPerKey": 5
    }
}
```


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3
Common Services REST Specifications

This chapter provides information about the REST specifications for Common Services used in Oracle Communications Cloud Native Core Converged Policy. You can use the following APIs to update configurations related to the Overload Control feature.

3.1 Egress Gateway for SCP Health

Peer Configuration

Table 3-1 Peer Configuration supported REST APIs details:

Description	HTTP Method or Custom Operation	Resource URI	Content Type	Possible Result Codes
Get Peer Configuration	GET	/{nfType}/nf-common-component/v1/{serviceName}/peerconfiguration	application/json	See Table A-1
Update Peer Configuration	PUT	/{nfType}/nf-common-component/v1/{serviceName}/peerconfiguration	application/json	See Table A-2
Get All Peer Configuration	GET	/{nfType}/nf-common-component/v1/{serviceName}/{instanceId}/peerconfiguration	application/json	See Table A-1
Update All Peer Configurations	PUT	/{nfType}/nf-common-component/v1/{serviceName}/{instanceId}/peerconfiguration	application/json	See Table A-2

Table 3-2 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
id	string	O	Peer identifier **Note**: Unique value in peerconfiguration
host	string	O	Host details of a peer.It can be IPv4, IPv6 and FQDN details.

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Table 3-2 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
virtualHost	string	O	Host details of a remote peer. For SLF feature, the virtualHost is SCP peer details. It must be a valid FQDN.This FQDN is sent to Alternate Route Service for DNS SRV resolution.
port	string	O	Port details of a peer.
apiPrefix	string	O	API prefix details of a peer. **Note**: Keep the value as '/' only
healthApiPath	string	O	Path of health API `/scp-api-root/v1/status`. This attribute is added to maintain the health status of the API. This attribute is added as part of monitoring the availability of SCP health status.

Peer Monitoring Configuration

Table 3-3 Peer Monitoring Configuration supported REST APIs details:

Description	HTTP Method or Custom Operation	Resource URI	Content Type	Possible Result Codes
Get Peer Monitoring Configuration	GET	/{nfType}/nf-common-component/v1/{serviceName}/peermonitoringconfiguration	application/json	See Table A-1
Update Peer Monitoring Configuration	PUT	/{nfType}/nf-common-component/v1/{serviceName}/peermonitoringconfiguration	application/json	See Table A-2
Get All of Peer Monitoring Configuration	GET	/{nfType}/nf-common-component/v1/{serviceName}/{instanceId}/peermonitoringconfiguration	application/json	See Table A-1

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Table 3-3 (Cont.) Peer Monitoring Configuration supported REST APIs details:

Description	HTTP Method or Custom Operation	Resource URI	Content Type	Possible Result Codes
Update All of Peer Monitoring Configurations	PUT	/{nfType}/nf-common-component/v1/{serviceName}/{instanceId}/peermonitoringconfiguration	application/json	See Table A-2

Table 3-4 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enabled	Boolean	O	Attribute to enable or disable monitoring at a global level. **Default value**: false
timeout	Long	O	Flag to configure the duration after which calls to the SCP health API is timed out. This is provided in milliseconds. The allowed value ranges from 300 milliseconds to 10000 milliseconds. **Default value**: 1000
frequency	Long	O	Indicates the frequency or interval at which Egress Gateway microservice initiates health check calls toward SCP. This is provided in milliseconds. The allowed value ranges from 300 milliseconds to 10000 milliseconds. **Default value**: 2000
failureThreshold	Integer	O	Indicates the number of consecutive failure responses after which a healthy SCP can be marked as unhealthy. The allowed value ranges 1 to 10. The maximum number of attempts to mark SCP unhealthy is 10. **Default value**: 3

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Table 3-4 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
successThreshold	Integer	O	Indicates the number of successful responses after which an unhealthy SCP can be marked as healthy. Health API call to given SCP shall succeed consecutively to these many attempts before it is marked as Available from UNAVAILABLE. The allowed value ranges 1 to 10. **Default value**: 3

Sample body:

```
{
    "enabled":true,
    "timeout":1000,
    "frequency":2000,
    "failureThreshold":3,
    "successThreshold":3
}
```

Peer Set Configuration

Table 3-5 Peerset Configuration supported REST APIs details:

Description	HTTP Method or Custom Operation	Resource URI	Content Type	Possible Result Codes
Get Peerset Configuration	GET	{apiRoot}/egw/healthStatus/peerSet/{peerSetId}	application/json	See Table A-1
List of Peerset Configuration	GET	{apiRoot}/egw/healthStatus/peerSet	application/json	See Table A-1
Get the list of peer sets wherein each peer set consists of ID and list of http or https instances.	GET	/{nfType}/nf-common-component/v1/{serviceName}/peersetconfiguration	application/json	See Table A-1

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Table 3-5 (Cont.) Peerset Configuration supported REST APIs details:

Description	HTTP Method or Custom Operation	Resource URI	Content Type	Possible Result Codes
Add or update the list of peer sets wherein each peer set consists of ID and list of http or https instances.	PUT, PATCH,	/{nfType}/nf-common-component/v1/{serviceName}/peersetconfiguration	application/json	see Table A-2

Table 3-6 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
id	string	O	Identifier for Peer Set
httpConfiguration	array(PeerIdentiferConfiguration)	O	Configuration for HTTP based Peers. This value will be selected, if 3GPPAPIRootScheme value is http
httpsConfiguration	array(PeerIdentifierConfiguration)	O	Configuration for HTTPs based Peers. This value will be selected, if 3GPPAPIRootScheme value is https

Table 3-7 PeerIdentifierConfiguration

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
priority	integer	O	Priority of peer to be used in a peer set
peerIdentifier	string	O	Peer identifier is the value of peer configured during PeerConfiguration

Sample body:

```
peerSetConfiguration[
   {
       "id":"set0",
       "httpConfiguration":[
       {
       "priority": 1,
              "peerIdentifier": "peer1"
       }],
       "httpsConfiguration":[
       {
```


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```
"priority": 1,
        "peerIdentifier": "peer1"
}]
```

3.2 OC Policy Mapping

This URI can be used to update service names and corresponding policy name for the service which is mapped to "ocDiscardPolicies" based on "policyName" and also to enable/disable the Overload Control feature and the sampling period in overload control. By default, the Overload Control feature is disabled and the sampling period is the 60s. To enable the feature, REST API needs to be invoked and update the enabled flag to true.

Table 3-8 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI
Get OC Policy Mapping	GET	PCF/nf-common-component/v1/{serviceName}/ocpolicymapping
Update OC Policy Mapping	PUT	PCF/nf-common-component/v1/{serviceName}/{instanceId}/ocpolicymapping
Partially OC Policy Mapping	PATCH	PCF/nf-common-component/v1/{serviceName}/{instanceId}/ocpolicymapping

Get, Update, and Patch OCPolicyMapping

Table 3-9 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
enabled	boolean	M	To enable or disable Overload Control feature. Set values to: • true: To enable • false: To disable
mappings.svcName	string	M	The SVC entry to determine a mapping between service and discard policy name per service.
mappings.policyName	string	M	The discard policy entry to determine a mapping between service and discard policy name per service.
samplingPeriod	integer	M	Time frame for each cycle of Overload Control per service. Its value is in milliseconds.

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Sample Request/Response body structure for GET, PUT, and PATCH operations:

```
{
   "enabled": true,
   "mappings": [
   {
     "svcName": "sm.pcf.com",
     "policyName": "OCDP1"
   },
   {
     "svcName": "cm.pcf.com",
     "policyName": "OCDP2"
   },
   {
     "svcName": "localhost",
     "policyName": "OCDP3"
   }],
   "samplingPeriod": 200
}
```

3.3 Error Code Profiles

This URI can be used to update the errorCodeProfiles that are used in Overload Control feature for populating details in error responses when a request is discarded.

By default, the errorCodeProfiles remains null.

Table 3-10 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI
Get error code profiles	GET	PCF/nf-common-component/v1/{serviceName}/errorcodeprofiles
Update error code profiles	PUT	PCF/nf-common-component/v1/{serviceName}/{instanceId}/errorcodeprofiles
Partially update the error code profiles	PATCH	PCF/nf-common-component/v1/{serviceName}/{instanceId}/errorcodeprofiles

Get, Update, and Patch errorCodeProfile

Table 3-11 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	M	Error name.

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Table 3-11 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
errorCode	integer	M	errorCode field in an errorScenario determines the HttpStatusCode that needs to be populated in **ProblemDetails (HttpStatus field)** response from IGW when the exception occurred at IGW matches the configured errorScenario's exceptionType field.
errorCause	string	O	errorCause field in an errorScenario determines the error cause that needs to be populated in **ProblemDetails (Cause field)** response from IGW when the exception occurred at IGW matches the configured errorScenario's exceptionType parameter.
errorTitle	string	O	errorTitle field in an errorScenario determines the title that needs to be populated in **ProblemDetails (Title field)** response from IGW when the exception occurred at IGW matches the configured errorScenario's exceptionType parameter.
redirectURL	string	O	redirectUrl field in an errorScenario determines the redirection URL, this value is populated in **LOCATION** header while sending response from IGW. The header is populated only when the exception occurred at IGW matches the configured errorScenario's exceptionType parameter, the errorCode configured for the particular errorScenario lies in 3xx error series and the redirectUrl field for the particular errorScenario is configured appropriately.
retry-after	string	O	retryAfter field in an errorScenario determines the value in seconds/ particular date after which the service should be retried, this value is populated in **Retry-After** header while sending response from IGW. The header is populated only when the exception occurred at IGW matches the configured errorScenario's exceptionType parameter, the errorCode configured for the particular errorScenario lies in 3xx error series and the retryAfter field for the particular errorScenario is configured appropriately in seconds.
errorDescription	string	O	errorDescription field in an errorScenario determines the description that needs to be populated in **ProblemDetails (Detail field)** response from IGW when the exception occurred at IGW matches the configured errorScenario's exceptionType field.

Sample Request/Response body structure for GET, PUT, and PATCH operations:

```
[
 {
   "name": "error300",
   "errorCode": 300,
   "errorCause": "",
```


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```
  "errorTitle": "",
  "redirectURL": "",
  "retry-after": "",
  "errorDescription": ""
 },
 {
  "name": "error500",
  "errorCode": 500,
  "errorCause": "",
  "errorTitle": "",
  "redirectURL": "",
  "retry-after": "",
  "errorDescription": ""
 },
 {
  "name": "error429",
  "errorCode": 429,
  "errorCause": "",
  "errorTitle": "",
  "redirectURL": "",
  "retry-after": "",
  "errorDescription": ""
 }
]
```

3.4 OC Discard Policies

This URI can be used to update discard policies that will be used in overload control to select the appropriate policy from the configured list based on the load level of a particular service. By default, ocDicardPolicies will be null.

Table 3-12 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI
Get Discard Policies	GET	PCF/nf-common-component/v1/{serviceName}/ocdiscardpolicies
Update Discard Policy	PUT	PCF/nf-common-component/v1/{serviceName}/{instanceId}/ocdiscardpolicies
Partially update the Discard Policy	PATCH	PCF/nf-common-component/v1/{serviceName}/{instanceId}/ocdiscardpolicies

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Get, Update, and Patch OCDiscardData

Table 3-13 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	M	Name of the discarded policy.
scheme	string The value can be: • PriorityBased • Percentage Based	M	Discarded policy scheme.
policies.value	integer	M	Value of priority above which requests are considered as potential candidates for drop. Percentage of requests to drop in the current sampling period over the calculated rate in the previous sampling period.
policies.action	string The vaue can be: RejectWithErrorCode	O	Defines the action to be taken on selected requests rejection based on error code.
policies.level	string	O	Defines the overload level.
policies.errorCodeProfile	string	O	The error code profiles.

Sample Request/Response body structure for GET, PUT, and PATCH operations:

```
[
 {
   "name": "OCDP2",
   "scheme": "PercentageBased",
   "policies": [
   {
     "value": 20,
     "action": "RejectWithErrorCode",
     "level": "L1",
     "errorCodeProfile": "error411"
   },
   {
     "value": 40,
     "action": "RejectWithErrorCode",
     "level": "L2",
     "errorCodeProfile": "error412"
   },
   {
      "value": 60,
      "action": "RejectWithErrorCode",
      "level": "L3",
```


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```
      "errorCodeProfile": "error413"
    },
    {
      "value": 80,
      "action": "RejectWithErrorCode",
      "level": "L4",
      "errorCodeProfile": "error414"
    },
    {
      "value": 95,
      "action": "RejectWithErrorCode",
      "level": "L5",
      "errorCodeProfile": "error415"
    }]
  },
  {
    "name": "OCDP1",
    "scheme": "PriorityBased",
    "policies": [
    {
      "value": 30,
      "action": "RejectWithErrorCode",
      "level": "Minor",
      "errorCodeProfile": "error300"
    },
    {
      "value": 20,
      "action": "RejectWithErrorCode",
      "level": "Critical",
      "errorCodeProfile": "error500"
    }]
  }
]
```

3.5 Overload Level Threshold

This URI can be used to configure the Overload Threshold Level. The data is saved in a line with service_name perf-info and used by the overload manager.

Table 3-14 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI
Get Overload Threshold Value of the required SVC (Backend service).	GET	/PCF/nf-common-component/v1/perf-info/overloadLevelThreshold
Update the Overload Threshold Value of the required SVC (Backend service).	PUT	/PCF/nf-common-component/v1/perf-info/overloadLevelThreshold
Delete the Overload Threshold Value of the required SVC (Backend service).	DELETE	/PCF/nf-common-component/v1/perf-info/overloadLevelThreshold

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Update overloadLevelThreshold

Table 3-15 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
svcName	string	M	Name of the backend service (svcName). You can configure the threshold values for the following services: • PCRF Core • Diameter Connector • PCF Session Management • PCF Access and Mobility • PCF UE Policy • CHF Connector • UDR Connector **Note** For PCRF-CORE deployment mode, configuring overload level threshold for SM Service, AM Service, and UE Policy Service is not required. For PCF deployment mode, configuring the overload level threshold for PCRF Core is not required.
metricsThresholdList	array	M	List of criteria used to calculate the load level.
metricsThresholdList.metricsName	string	M	Name of criteria: • `cpu` • `svc_pending_count` • `svc_failure_count` • `memory`
metricsThresholdList.levelThresholdList	array	M	List of threshold values
metricsThresholdList.levelThresholdList.level	string	M	Specifies the name of the level: L1/L2/L3

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Table 3-15 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
metricsThresholdList.levelThresholdList.abatementValue	integer	M	If the metric level goes below this value, load level goes to a lower value. The abatement values for each of the metrics are as follows: • `cpu` (Calucalted in percentage (%)) and ranges between 1-100 • `svc_pending_count` (Accepts an integer value) and ranges between 1 to 1000000 • `svc_failure_count` (Accepts an integer value) and ranges between 1 to 1000000 • `memory` (Calucalted in percentage (%)) and ranges between 1-100
metricsThresholdList.levelThresholdList.onsetValue	integer	M	If the metric level goes above this value, load level is set. The onset value of L1 is less than the abatement value of L2 and the onset value of L2 is less than the abatement value of L3. The onset values for each of the metrics are as follows: • `cpu` (Calucalted in percentage (%)) and ranges between 1-100 • `svc_pending_count` (Accepts an integer value) and ranges between 1 to 1000000 • `svc_failure_count` (Accepts an integer value) and ranges between 1 to 1000000 • `memory` (Calucalted in percentage (%)) and ranges between 1-100

Sample Request/Response body structure for GET/PUT operation:

```
[
        {
        "svcName": "ztt-overload-occnp-pcf-sm",
        "metricsThresholdList": [
            {
                "metricsName": "svc_pending_count",
                "levelThresholdList": [
                    {
                        "level": "L1",
                        "onsetValue": 50,
                        "abatementValue": 40
                    },
                    {
                        "level": "L2",
                        "onsetValue": 200,
                        "abatementValue": 180
                    },
                    {
                        "level": "L3",
```


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```
                    "onsetValue": 400,
                    "abatementValue": 360
                },
                {
                    "level": "L4",
                    "onsetValue": 600,
                    "abatementValue": 540
                },
                {
                    "level": "L5",
                    "onsetValue": 800,
                    "abatementValue": 720
                }
            ]
        }
    ]
    }
]
```

3.5.1 Overload Level Threshold Profiles

This URI can be used to configure the Overload Threshold Level Profiles. The data is saved in a line with service_name perf-info and used by the overload manager.

Table 3-16 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI
Get the Overload Threshold Profile of the required SVC (Backend service).	GET	/oc-cnpolicy-configuration/v1/overloadlevelThreshold/activeProfile For details on Request/Response Body Parameters for GET activeProfile, see Table 3-17
Activate the Overload Threshold Profile	PUT	/oc-cnpolicy-configuration/v1/overloadlevelThreshold/activeProfile For details on Request/Response Body Parameters for PUT activeProfile, see Table 3-17
Get all the overload threshold profiles names which includes default and custom profiles	GET	/oc-cnpolicy-configuration/v1/overloadlevelThreshold/profiles For details on Request/Response Body Parameters for GET profiles, see Table 3-18
Get Overload Threshold Value for particular profile.	GET	/oc-cnpolicy-configuration/v1/overloadlevelThreshold/profiles/{name} For details on Request/Response Body Parameters for GET profiles/{name}, see Table 3-19

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Table 3-16 (Cont.) Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI
Adds a new Overload Threshold Profile	POST	/oc-cnpolicy-configuration/v1/overloadlevelThreshold/profiles/{name} For details on Request/Response Body Parameters for POST profiles/{name}, see Table 3-19
Update the profile.	PUT	/oc-cnpolicy-configuration/v1/overloadlevelThreshold/profiles/{name} For details on Request/Response Body Parameters for PUT profiles/{name}, see Table 3-19
Delete the Overload Threshold Profile of the required SVC (Backend service).	DELETE	/oc-cnpolicy-configuration/v1/overloadlevelThreshold/profiles/{name}
Migrate the data from standalone to profile i.e if any overloadlevelThreshold data is already configured then it will migrate that data to profile name - Name of the profile activate - if after migration , profile should be activated	POST	/oc-cnpolicy-configuration/v1/overloadlevelThreshold/migrate For details on Request/Response Body Parameters for POST migrate, see Table 3-20
Exports the Overload Threshold Profile.	GET	/oc-cnpolicy-configuration/v1/overloadlevelThreshold/export
Imports the Overload Threshold Profile.	POST	/oc-cnpolicy-configuration/v1/overloadlevelThreshold/import For details on Request/Response Body Parameters for POST (import), see Table 3-21.

Table 3-17 Request/Response Body Parameters for GET/PUT activeProfile

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	M	Name of the active profile.

Sample Request/Response for GET/PUT activeProfile

```
{
    "name":"custom"
}
```


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Table 3-18 Request/Response Body Parameters for GET profiles

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	M	Name of the profile.
isCustomProfile	string	M	To specify the type of profile: default or custom

Sample Request/Response for GET profiles

```
[
{
    "name":"default",
    "isCustomProfile":false
},{
    "name":"custom",
    "isCustomProfile":true
}
]
```

Table 3-19 Request/Response Body Parameters for GET/PUT/POST profiles/{name}

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	M	Name of the profile.

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Table 3-19 (Cont.) Request/Response Body Parameters for GET/PUT/POST profiles/{name}

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
value.svcName	string	M	Name of the backend service (svcName). You can configure the threshold values for the following services: • PCRF Core • Diameter Connector • PCF Session Management • PCF Access and Mobility • PCF UE Policy • CHF Connector • UDR Connector **Note** For PCRF-CORE deployment mode, configuring overload level threshold for SM Service, AM Service, and UE Policy Service is not required. For PCF deployment mode, configuring the overload level threshold for PCRF Core is not required.
value.metricsThresholdList	array	M	List of criteria used to calculate the load level.
value.metricsThresholdList.metricsName	string	M	Name of criteria: • `cpu` • `svc_pending_count` • `svc_failure_count` • `memory`
value.metricsThresholdList.levelThresholdList	array	M	List of threshold values
value.metricsThresholdList.levelThresholdList.level	string	M	Specifies the name of the level: L1/L2/L3.

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Table 3-19 (Cont.) Request/Response Body Parameters for GET/PUT/POST profiles/{name}

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
value.metricsThresholdList.levelThresholdList.abatementValue	integer	M	If the metric level goes below this value, load level goes to a lower value. The abatement values for each of the metrics are as follows: • `cpu` (Calucalted in percentage (%)) and ranges between 1-100 • `svc_pending_count` (Accepts an integer value) and ranges between 1 to 1000000 • `svc_failure_count` (Accepts an integer value) and ranges between 1 to 1000000 • `memory` (Calucalted in percentage (%)) and ranges between 1-100
value.metricsThresholdList.levelThresholdList.onsetValue	integer	M	If the metric level goes above this value, load level is set. The onset value of L1 is less than the abatement value of L2 and the onset value of L2 is less than the abatement value of L3. The onset values for each of the metrics are as follows: • `cpu` (Calucalted in percentage (%)) and ranges between 1-100 • `svc_pending_count` (Accepts an integer value) and ranges between 1 to 1000000 • `svc_failure_count` (Accepts an integer value) and ranges between 1 to 1000000 • `memory` (Calucalted in percentage (%)) and ranges between 1-100

Sample Request/Response for GET/PUT/POST profiles/{name}

```
{
    "name": "custom",
    "value": [
        {
            "svcName": "service-name-pcrf-core",
            "metricsThresholdList": [
                {
                    "metricsName": "cpu",
                    "levelThresholdList": [
                        {
                            "level": "L1",
                            "onsetValue": 49,
                            "abatementValue": 41
                        },
                        {
                            "level": "L2",
                            "onsetValue": 48,
                            "abatementValue": 47
                        },
```


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```
                        {
                            "level": "L3",
                            "onsetValue": 52,
                            "abatementValue": 50
                        }
                    ]
                }
            ]
        }
    ]
}
```

Table 3-20 Request/Response Body Parameters for POST migrate

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	M	Name of the profile to migrate.
activate	string	M	To activate the profile. Set value to: • true: To activate • false: Not to activate

Sample request/response for GET profiles list

```
{
     "name":"migrate_profile",
     "activate":true/false
}
```

Table 3-21 Request/Response Body Parameters for POST (import)

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
exportData.name	string	M	Name of the profile.

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Table 3-21 (Cont.) Request/Response Body Parameters for POST (import)

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
exportData.value.svcName	string	M	Name of the backend service (svcName). You can configure the threshold values for the following services: • PCRF Core • Diameter Connector • PCF Session Management • PCF Access and Mobility • PCF UE Policy • CHF Connector • UDR Connector **Note** For PCRF-CORE deployment mode, configuring overload level threshold for SM Service, AM Service, and UE Policy Service is not required. For PCF deployment mode, configuring the overload level threshold for PCRF Core is not required.
exportData.value.metricsThresholdList	array	M	List of criteria used to calculate the load level.
exportData.value.metricsThresholdList.metricsName	string	M	Name of criteria: • `cpu` • `svc_pending_count` • `svc_failure_count` • `memory`
exportData.value.metricsThresholdList.levelThresholdList	array	M	List of threshold values
exportData.value.metricsThresholdList.levelThresholdList.level	string	M	Specifies the name of the level: L1/L2/L3.

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Table 3-21 (Cont.) Request/Response Body Parameters for POST (import)

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
exportData.value.metricsThresholdList.levelThresholdList.abatementValue	integer	M	If the metric level goes below this value, load level goes to a lower value. The abatement values for each of the metrics are as follows: • `cpu` (Calucalted in percentage (%)) and ranges between 1-100 • `svc_pending_count` (Accepts an integer value) and ranges between 1 to 1000000 • `svc_failure_count` (Accepts an integer value) and ranges between 1 to 1000000 • `memory` (Calucalted in percentage (%)) and ranges between 1-100
exportData.value.metricsThresholdList.levelThresholdList.onsetValue	integer	M	If the metric level goes above this value, load level is set. The onset value of L1 is less than the abatement value of L2 and the onset value of L2 is less than the abatement value of L3. The onset values for each of the metrics are as follows: • `cpu` (Calucalted in percentage (%)) and ranges between 1-100 • `svc_pending_count` (Accepts an integer value) and ranges between 1 to 1000000 • `svc_failure_count` (Accepts an integer value) and ranges between 1 to 1000000 • `memory` (Calucalted in percentage (%)) and ranges between 1-100

Sample Request/Response Body Parameters for POST (import)

```
"exportData": [
    {
      "name": "TestProfile",
      "value": [
        {
          "svcName": "pcrf-core",
          "metricsThresholdList": [
            {
              "metricsName": "cpu",
              "levelThresholdList": [
                {
                  "level": "L1",
                  "abatementValue": 41,
                  "onsetValue": 44
                },
                {
                  "level": "L2",
                  "abatementValue": 47,
                  "onsetValue": 49
```


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```
            },
            {
              "level": "L3",
              "abatementValue": 50,
              "onsetValue": 52
            }
          ]
        },
    }
```

3.6 NF profile registration with NRF

These URIs can be used to update or retrieve PCF NF profile to be registered with Network Repository Function (NRF).

Table 3-22 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI
Get PCF NfProfile	GET	PCF/nf-common-component/v1/nrf-client-nfmanagement/nfProfileList
Update PCF NfProfile	PUT	PCF/nf-common-component/v1/nrf-client-nfmanagement/nfProfileList

The sample request body structure for GET and PUT operation is as follows:

```
[
   {
      "nfInstanceId":"fe7d992b-0541-4c7d-ab84-c6d70b1b0123",
      "nfType":"PCF",
      "nfStatus":"REGISTERED",
      "plmnList":null,
      "nsiList":null,
      "fqdn":"occnp-ocpm-ingress-gateway.ocpcf.svc",
      "interPlmnFqdn":null,
      "ipv4Addresses":null,
      "ipv6Addresses":null,
      "priority":null,
      "capacity":null,
      "load":80,
      "locality":null,
      "pcfInfo":{
         "dnnList":[
            "internet",
            "volte"
         ],
         "supiRanges":[
            {
               "start":"12123444444",
               "end":"232332323323232",
               "pattern":null
            }
```


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```
      ]
   },
   "customInfo":null,
   "recoveryTime":null,
   "nfServices":[
      {
         "serviceInstanceId":"03063893-cf9e-4f7a-9827-067f6fa9dd01",
         "serviceName":"npcf-am-policy-control",
         "versions":[
            {
               "apiVersionInUri":"v1",
               "apiFullVersion":"1.0.0",
               "expiry":null
            }
         ],
         "scheme":"http",
         "nfServiceStatus":"REGISTERED",
         "fqdn":"occnp-ocpm-ingress-gateway.ocpcf.svc",
         "interPlmnFqdn":null,
         "ipEndPoints":null,
         "apiPrefix":null,
         "defaultNotificationSubscriptions":null,
         "allowedPlmns":null,
         "allowedNfTypes":[
            "AMF",
            "NEF"
         ],
         "allowedNfDomains":null,
         "allowedNssais":null,
         "priority":null,
         "capacity":null,
         "load":null,
         "recoveryTime":null,
         "supportedFeatures":null
      },
      {
         "serviceInstanceId":"03063893-cf9e-4f7a-9827-067f6fa9dd02",
         "serviceName":"npcf-smpolicycontrol",
         "versions":[
            {
               "apiVersionInUri":"v1",
               "apiFullVersion":"1.0.0",
               "expiry":null
            }
         ],
         "scheme":"http",
         "nfServiceStatus":"REGISTERED",
         "fqdn":"occnp-ocpm-ingress-gateway.ocpcf.svc",
         "interPlmnFqdn":null,
         "ipEndPoints":null,
         "apiPrefix":null,
         "defaultNotificationSubscriptions":null,
         "allowedPlmns":null,
         "allowedNfTypes":[
            "SMF",
            "NEF",
```


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```
                    "AF"
                ],
                "allowedNfDomains":null,
                "allowedNssais":null,
                "priority":null,
                "capacity":null,
                "load":null,
                "recoveryTime":null,
                "supportedFeatures":null
            },
            {
                "serviceInstanceId":"03063893-cf9e-4f7a-9827-067f6fa9dd03",
                "serviceName":"npcf-ue-policy-control",
                "versions":[
                    {
                        "apiVersionInUri":"v1",
                        "apiFullVersion":"1.0.0",
                        "expiry":null
                    }
                ],
                "scheme":"http",
                "nfServiceStatus":"REGISTERED",
                "fqdn":"occnp-ocpm-ingress-gateway.ocpcf.svc",
                "interPlmnFqdn":null,
                "ipEndPoints":null,
                "apiPrefix":null,
                "defaultNotificationSubscriptions":null,
                "allowedPlmns":null,
                "allowedNfTypes":[
                    "AMF"
                ],
                "allowedNfDomains":null,
                "allowedNssais":null,
                "priority":null,
                "capacity":null,
                "load":null,
                "recoveryTime":null,
                "supportedFeatures":null
            }
        ]
    }
]
```


3.7 Server Header at Ingress Gateway

This section describes the Common Config Server URIs that you can use to enable and configure server header at Ingress Gateway. The server header is included in the error responses sent by Ingress Gateway for the errors generated at Ingress Gateway as well as backend microservices.

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> **Note**
>
> You can configure server header at both global and route level. However, if you define server header configuration at both global and route level, the route level configuration (irrespective of being enabled or disabled) takes precendence over the global level configuration.

Error Code Series List

The following table describes the URIs available to define and retrieve error code series list:

Table 3-23 Supported REST APIs for Error Code Series List

Description	HTTP Method or Custom Operation	Resource URI
Get Error Code Series List	GET	{apiRoot}/PCF/nf-common-component/v1/igw/errorcodeserieslist
Define Error Code Series List	PUT	{apiRoot}/PCF/nf-common-component/v1/igw/errorcodeserieslist
Delete Error Code Series List	PUT To delete the configurations, put an empty json in the request. `[]`	{apiRoot}/PCF/nf-common-component/v1/igw/errorcodeserieslist

The sample request body structure for PUT operation is as follows:

```
[
    {
        "id": "E1",
        "errorCodeSeries":
        [
            {
                "errorSet": "4xx",
                "errorCodes": [400, 408]
            },
            {
                "errorSet": "5xx",
                "errorCodes": [500, 503]
            }
        ]
    },
    {
        "id": "E2",
        "errorCodeSeries":
        [
            {
                "errorSet": "4xx",
                "errorCodes": [-1]
            }
```


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```
        ]
    }
]
```

Table 3-24 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
id	string	M	Specifies the unique ID that is used in the `errorCodeSeriesId` while configuring server header at global or route level.
errorCodeSeries.errorSet	string	M	Specifies an errorSet (4XX, 5XX) in errorCodeSeries for matching server response.
errorCodeSeries.errorCodes	array	M	Specifies the error codes in a specific error set against which the server response is validated for populating server header.

Configuring Server header (global level)

The following table describes the URIs available to enable and configure server header at global level:

Table 3-25 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI
Get Server Header	GET	/PCF/nf-common-component/v1/igw/serverheaderdetails
Define Server Header	PUT	/PCF/nf-common-component/v1/igw/serverheaderdetails

The sample request body structure for PUT operation is as follows:

```
{
        "enabled": false,            # Set to false if we want Server Header
to be generated at Route Level
        "errorCodeSeriesId": "E1",   # See "errorcodeserieslist" resource
above for more details.
        "configuration": {
            "nfType": "PCF",
            "nfInstanceId": "123456" # NF Instance Id of the PCF
        }
    }
```


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Table 3-26 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enabled	boolean	M	When the value for this parameter is set to true, server headers are generated at a global level. To generate server headers at route level, set the value to false.
errorCodeSeriesId	string	M	Specifies the error list IDs. For more information, see Table 3-23.
configuration.nfType	string	M	Specifies the type of network function. **Default value**: PCF
configuration.nfInstanceId	string	M	Specifies the NF Instance ID of the PCF.

Configuring Server header (route level)

The following table describes the URIs available to enable and configure server header at route level:

Table 3-27 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI
Get Route Level Configuration	GET	/PCF/nf-common-component/v1/igw/routesconfiguration
Define Server Header at Route Level	PUT	/PCF/nf-common-component/v1/igw/routesconfiguration

The sample request body structure for PUT operation is as follows:

```
[{
        "id": "sm_create_session_route",
        "serverHeaderDetails": {
        "enabled": true,
        "errorCodeSeriesId": "E1"
        }
    }]
```

The sample request body structure to clear route using PUT operation is as follows:

```
[]
```


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Table 3-28 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
id	string	M	Specifies the route IDs for which you need to define server header. You can define the server header at route level for any of the following supported route IDs: • sm_create_session_route • sm_delete_session_route • sm_update_session_route • udr_notify_route • chf_terminate_route • chf_notify_route • pa_create_session_route • pa_delete_session_route • pa_update_session_route • pa_events_subscription_route • reverse_ue_service • reverse_user_udr_notify_service • reverse_user_chf_notify_service • reverse_nrf_discovery_service • reverse_nrf_management_service • reverse_nrf_notify_service • reverse_soapconnector_service • reverse_ue_service_notify • am_create_session_route • am_delete_session_route • am_update_session_route
serverHeaderDetails.enabled	boolean	M	Set the value for this parameter to true if you want to define server header at the route level.
serverHeaderDetails.errorCodeSeriesId	string	M	Specifies the error list IDs. For more information, see Table 3-23.

The sample request body structure for GET operation is as follows:

```
[{
    "id":"sm_create_session_route"
}]
```

3.8 Rate Limiting

3.8.1 Rate Limiting at Ingress Gateway

This section describes the URIs that you can use to configure route level rate limiting in persistent configuration at Ingress Gateway.

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Error Code Profiles

The following table describes the URIs available to define and retrieve error code profiles in persistent configuration:

Table 3-29 Supported REST APIs for Error Code Profiles

Description	HTTP Method or Custom Operation	Resource URI
Get Error Code Profiles	GET	{apiRoot}/PCF/nf-common-component/v1/igw/errorcodeprofiles
Define Error Code Profiles	PUT	{apiRoot}/PCF/nf-common-component/v1/igw/errorcodeprofiles

The sample request body structure for PUT operation is as follows:

```
[{
        "name": "error429",
        "errorCode": 429,
        "errorCause": "Too Many Request",
        "errorTitle": "",
        "redirectURL": "",
        "retry-after": "",
        "errorDescription": ""
    }]
```

Table 3-30 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	M	Specifies the unique name for the error profile.
errorCode	string	M	errorCode field in an errorScenario determines the HttpStatusCode that needs to be populated in **ProblemDetails (HttpStatus field)** response from IGW when the exception occurred at IGW matches the configured errorScenario's exceptionType field.
errorCause	string	M	errorCause field in an errorScenario determines the error cause that needs to be populated in **ProblemDetails (Cause field)** response from IGW when the exception occurred at IGW matches the configured errorScenario's exceptionType parameter.
errorTitle	string	O	errorTitle field in an errorScenario determines the title that needs to be populated in **ProblemDetails (Title field)** response from IGW when the exception occurred at IGW matches the configured errorScenario's exceptionType parameter.

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Table 3-30 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
redirectURL	string	O	redirectUrl field in an errorScenario determines the redirection URL, this value is populated in **LOCATION** header while sending response from IGW. The header is populated only when the exception occurred at IGW matches the configured errorScenario's exceptionType parameter, the errorCode configured for the particular errorScenario lies in 3xx error series and the redirectUrl field for the particular errorScenario is configured appropriately.
retry-after	string	O	retryAfter field in an errorScenario determines the value in seconds/ particular date after which the service should be retried, this value is populated in **Retry-After** header while sending response from IGW. The header is populated only when the exception occurred at IGW matches the configured errorScenario's exceptionType parameter, the errorCode configured for the particular errorScenario lies in 3xx error series and the retryAfter field for the particular errorScenario is configured appropriately in seconds.
errorDescription	string	O	errorDescription field in an errorScenario determines the description that needs to be populated in **ProblemDetails (Detail field)** response from IGW when the exception occurred at IGW matches the configured errorScenario's exceptionType field.

Configuring Rate Limit for Policy

The following table describes the URIs available to enable and configure ratelimit:

Table 3-31 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI
Get Rate Limit	GET	{apiRoot}/PCF/nf-common-component/v1/igw/routelevelratelimiting
Define Rate Limit	PUT	{apiRoot}/PCF/nf-common-component/v1/igw/routelevelratelimiting

The sample request body structure for PUT operation is as follows:

```
{
   "enabled": true,
   "samplingPeriod": 2000,
   "rateLimitPolicies": [
```


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```
    {
      "name": "R1",
      "value": 5,
      "action": "RejectWithErrorCode",
      "scheme": "PriorityBased",
      "errorCodeProfile": "error429"
    }
    ]
}
```

Table 3-32 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enabled	boolean	M	Specifies whether to enable or disable rate limiting feature.
samplingPeriod		M	Specifies the duration for each cycle of route rate limit. The value of sampling period is defined in milliseconds.
rateLimitPolicies.name	string	M	Specifies the unique name of the discard policy.
rateLimitPolicies.value	integer	M	Specifies the value of priority above which requests are considered as potential candidates for drop.
rateLimitPolicies.action	string	M	Specifies the action such as silent drop or rejection for the selected requests.
rateLimitPolicies.scheme	string	M	Specifies the scheme on the basis of which requests are selected to be dropped. The only supported value for this parameter is `PriorityBased`.
rateLimitPolicies.errorCodeProfile	string	M	Specifies the error code profile. For more information, seeTable 3-29.

Configuring Rate Limit for Policy at route level

For details on configuring rate limit for policy at route level, see Route Level Configuration.

3.9 Failure Count at Ingress Gateway

This section describes the URIs that you can use to configure failure count at Ingress Gateway.

Configuring Failure Count Overload

Error Code Series List

The following table describes the URIs available to define and retrieve error code series list:

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Table 3-33 Supported REST APIs for Error Code Series

Description	HTTP Method or Custom Operation	Resource URI
Get Error Code Series List	GET	{apiRoot}/PCF/nf-common-component/v1/igw/errorcodeserieslist
Define Error Code Series List	PUT	{apiRoot}/PCF/nf-common-component/v1/igw/errorcodeserieslist
Delete Error Code Series List	PUT To delete the configurations, put an empty json in the request. []	{apiRoot}/PCF/nf-common-component/v1/igw/errorcodeserieslist

The sample request body structure for PUT operation is as follows:

```
[
    {
        "id": "E1",
        "errorCodeSeries": [
            {
                "errorSet": "4xx",
                "errorCodes": [
                    400,
                    408
                ]
            },
            {
                "errorCodes": [
                    500,
                    503
                ]
            }
        ]
    },
    {
        "id": "E2",
        "errorCodeSeries": [
            {
                "errorSet": "5xx",
                "errorCodes": [
                    -1
                ]
            }
        ]
    }
]
```


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Table 3-34 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
id	string	M	Specifies the unique ID that is used in the `errorCodeSeriesId` while configuring server header at global or route level.
errorCodeSeries.errorSet	string	M	Specifies an errorSet (4XX, 5XX) in errorCodeSeries for matching server response.
errorCodeSeries.errorCodes	array	M	Specifies the error codes in a specific error set against which the server response is validated for populating server header.

Failure Count for Policy at Route Level

The following table describes the URIs available to define and retrieve failure count at route level:

Table 3-35 Supported REST APIs for Failure Count at Route Level

Description	HTTP Method or Custom Operation	Resource URI
Get failure count at route level Configuration	GET	{apiRoot}/PCF/nf-common-component/v1/igw/routesconfiguration
Define failure count at route level Configuration	PUT	{apiRoot}/PCF/nf-common-component/v1/igw/routesconfiguration

For details on configuring the failure count for Policy at route level, see Route Level Configuration.

Configuring both Failure Count and Rate Limiting Overload

Error Code Series List for Failure Count

For details on configuring error code series list for failure count, see *Error Code Series List* under *Configuring Failure Count Overload* section.

Error Code Profile for Rate Limiting

For details on configuring error code profile for failure count, see *Error Code Profiles* in Rate Limiting at Ingress Gateway.

Rate Limit for Policy

For details on configuring rate limit for Policy, see *Configuring Rate Limit for Policy* in Rate Limiting at Ingress Gateway.

Route Level for Failure Count and Rate Limiting

For details on configuring the route level for failure count and rate limiting, see Route Level Configuration.

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3.10 Route Level Configuration

The following table describes the URIs available to enable and configure rate-limit at route level:

Table 3-36 Supported REST APIs

Description	HTTP Method or Custom Operation	Resource URI
Get Rate Limit at route level Configuration	GET	{apiRoot}/PCF/nf-common-component/v1/igw/routesconfiguration
Define Rate Limit at route level Configuration	PUT	{apiRoot}/PCF/nf-common-component/v1/igw/routesconfiguration

The sample request body structure for PUT operation is as follows:

```
[
    {
        "id": "sm_create_session_route",
        "rateLimiting": {
            "methods": [
                {
                    "name": "POST",
                    "rate": 3,
                    "rateLimitPolicy": "R1"
                }
            ]
        },
        "failureReqCountErrorCodeSeriesId": "E1"
    },
    {
        "id": "sm_update_session_route",
        "rateLimiting": {
            "methods": [
                {
                    "name": "POST",
                    "rate": 6,
                    "rateLimitPolicy": "R1"
                }
            ]
        },
        "failureReqCountErrorCodeSeriesId": "E1"
    },
    {
        "id": "sm_delete_session_route",
        "rateLimiting": {
            "methods": [
                {
                    "name": "POST",
                    "rate": 3,
                    "rateLimitPolicy": "R1"
```


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```
                }
            ]
        },
        "failureReqCountErrorCodeSeriesId": "E1"
    }
]
```

Table 3-37 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
id	string	M	Specifies the route IDs for which you need to define the rate limit. You can define the rate limit at route level for any of the following supported route IDs. For the list of supported route IDs for each service, see *Overload Control* section in *Oracle Communications Cloud Native Core, Converged Policy User Guide*.
rateLimiting.methods.name	string	O	Specifies the name of the HTTP method such as GET, DELETE, or POST. The rate limit is calculated by considering the method along with the route ID.
rateLimiting.methods.rate	integer	O	Specifies the rate for route level rate limit. Any requests with sbi-priority header with a value greater than the configured number are discarded.
rateLimiting.methods.rateLimitPolicy	string	O	Specifies the unique rate limit policy name. For more information, see Table 3-31.
failureReqCountErrorCodeSeriesId	string	O	Specifies the mapping between error series and failure count.

3.11 Pod Protection Mechanism at Ingress Gateway

This section describes the URIs that you can configure to apply congestion control on Ingress Gateway when the pod is overloaded.

Pod Protection

The following table describes the URIs available to retrieve and update pod protection configurations:

Table 3-38 Supported REST APIs for Pod Protection

Description	HTTP Method or Custom Operation	Resource URI
Get Pod Protection	GET	{apiRoot}/PCF/nf-common-component/v1/igw/podprotection
Update subset of Pod Protection	PATCH	{apiRoot}/PCF/nf-common-component/v1/igw/podprotection

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Table 3-38 (Cont.) Supported REST APIs for Pod Protection

Description	HTTP Method or Custom Operation	Resource URI
Update Pod Protection	PUT	{apiRoot}/PCF/nf-common-component/v1/igw/podprotection

The sample request body structure for PUT operation is as follows:

```
{
    "podProtection": {
        "enabled": false,
        "monitoringInterval": 100,
        "congestionControl": {
            "enabled": false,
            "stateChangeSampleCount": 10,
            "actionSamplingPeriod": 3,
            "states": [
                {
                    "name": "Normal",
                    "weight": 0,
                    "entryAction": [
                        {
                            "action": "MaxConcurrentStreamsUpdate",
                            "args": {
                                "incrementBy": 30,
                                "incrementByActionSamplingPeriod": 3,
                                "maxConcurrentStreamsPerCon": 100
                            }
                        },
                        {
                            "action": "AcceptIncomingConnections",
                            "args": {
                                "accept": true
                            }
                        }
                    ]
                },
                {
                    "name": "DoC",
                    "weight": 1,
                    "resourceThreshold": {
                        "cpu": 60,
                        "memory": 60,
                        "pendingMessage": 5000
                    },
                    "entryAction": [
                        {
                            "action": "AcceptIncomingConnections",
                            "args": {
                                "accept": false
                            }
                        },
                        {
```


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```
                            "action": "MaxConcurrentStreamsUpdate",
                            "args": {
                                "incrementBy": 30,
                                "incrementByActionSamplingPeriod": 3,
                                "decrementBy": 30,
                                "decrementByActionSamplingPeriod": 1,
                                "maxConcurrentStreamsPerCon": 50
                            }
                        }
                    ]
                },
                {
                    "name": "Congested",
                    "weight": 2,
                    "resourceThreshold": {
                        "cpu": 75,
                        "memory": 75,
                        "pendingMessage": 7000
                    },
                    "entryAction": [
                        {
                            "action": "AcceptIncomingConnections",
                            "args": {
                                "accept": false
                            }
                        },
                        {
                            "action": "MaxConcurrentStreamsUpdate",
                            "args": {
                                "decrementBy": 30,
                                "decrementByActionSamplingPeriod": 1,
                                "maxConcurrentStreamsPerCon": 10
                            }
                        }
                    ]
                }
            ]
        }
    }
}
```

Table 3-39 Request and Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enabled	boolean	M	Specifies whether to enable or disable pod protection at Ingress Gateway.
monitoringInterval	integer	M	Specifies the interval (in ms) in which the state of the resource is checked and then updated.
congestionControl.enabled	boolean	M	Specifies whether to enable or disable congestion control at Ingress Gateway.

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Table 3-39 (Cont.) Request and Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
congestionControl.stateChangeSampleCount	integer	M	Specifies the number of times the pod must remain in the same state in order to transition to a different state. For instance, if a given pod is in the normal state (weight 0) and the value for this parameter is configured as 10, then the pod must remain in DOC state for 10 consecutive counts before it can transition to the DOC state.
congestionControl.actionSamplingPeriod	integer	M	Specifies the time at which action is performed.
congestionControl.states		M	Specifies the pre-defined congestion states for a pod. The supported values for the state are as follow • Normal • DOC • Congested

Table 3-40 states

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
name	string	M	Specifies the name of the state.
weight	integer	M	Specifies the weight for a state. The criticality of a state is directly proportional to its weight. For example, the resource threshold for weight 0 (Normal) must be less than the resource threshold of weight 1 (DOC). Similarly, the maxConcurrentStreamsPerCon of weight 0 (Normal) must be greater than weight 1 (DOC).
resourceThreshold	integer	O	Specifies the threshold values for CPU, memory, and pending requests at Ingress Gateway for each state.
entryAction.action	string	M	Specifies the action associated with each state. The supported values for this parameter are as follow: • MaxConcurrentStreamsUpdate • AcceptIncomingConnections

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Table 3-40 (Cont.) states

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
entryAction.args	array	O	Specifies the args associated with each action type. For the action `AcceptIncomingConnections`, the arg `accept` can be either true or false. For the action `MaxConcurrentStreamsUpdate`, the supported args are as follow: 1. `incrementBy`: possible values (positive integer) 2. `decrementBy`: possible values (positive integer) 3. `maxConcurrentStreamsPerCon`: possible values (positive integer) 4. `decrementByActionSamplingPeriod`: possible values (positive integer) 5. `incrementByActionSamplingPeriod`: possible values (positive integer)

3.12 Controlled Shutdown at Ingress and Diameter Gateway

This section describes the URIs that you can use to enable and configure Controlled Shutdown at Ingress and Diameter Gateway.

Operational State

The following table describes the URIs available to define and retrieve operational state:

Table 3-41 Supported REST APIs for Operational State

Description	HTTP Method or Custom Operation	Resource URI
GET Operational State	GET	{apiRoot}/controlledShutdown/operationalState
PUT Operational State	PUT	{apiRoot}/controlledShutdown/operationalState

The sample request body structure for PUT operation is as follows:

```
{
  "operationalState": "NORMAL"
}
```


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Table 3-42 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
Operational State	Enum • NORMAL • PARTIAL_SHUTDOWN • COMPLETE_SHUTDOWN	M	Specifies the operational state

Operational State History

The following table describes the URIs available to retrieve operational state history:

Table 3-43 Supported REST APIs for Operational State History

Description	HTTP Method or Custom Operation	Resource URI
GET Operational State History	GET	{apiRoot}/oc-cnpolicy-configuration/v1/controlledShutdown/operationalStateHistory

The sample request body structure for GET operation is as follows:

```
[
  {
    "id": "ea01053b-5a3b-4de2-850b-7210bf2a04d5",
    "type": "operationalState",
    "value": "{\"state\":\"NORMAL\"}",
    "timeStamp": "2022-08-30T08:12:45.88519",
    "status": "SUCCESS"
  }
]
```

Table 3-44 Request/Response Body Parameters

Field Name	Data Type	Description
id	UUID	Auto-generated ID
type	String	Type of historical data
value	String	Operational state value
timeStamp	Date	Logs the timestamp when the operational state event took place
status	String	• Success: Successful in switching of operational state • Failure: Fail in switching of operational state

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Table 3-45 Request Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
Offset	Integer	O	Offset is a position in the set of records.
Limit	Integer	O	Limit as an option allows to limit the number of rows returned from a query.
Page	Integer	O	Page shows the number of records.

> **Note**
>
> If offset and Limit are not provided in the API, then the query fetches all the records from the database.

Controlled Shutdown Error Mapping

The following table describes the URIs available to define and retrieve Controlled Shutdown Error Mapping:

Table 3-46 Supported REST APIs for Controlled Shutdown Error Mapping

Description	HTTP Method or Custom Operation	Resource URI
GET Controlled Shutdown Error Mapping	GET	{apiRoot}/oc-cnpolicy-configuration/v1/controlledShutdown/errorMapping
PUT Controlled Shutdown Error Mapping	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/controlledShutdown/errorMapping

The sample request body structure for PUT operation is as follows:

```
{
    "routeErrorProfileList": [
        {
            "errorProfileName": "ERR_400",
            "routeIds": [
                "sm_update_session_route"
            ]
        },
        {
            "errorProfileName": "ERR_100",
            "routeIds": [
                "sm_create_session_route"
            ]
```


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```
        },
        {
            "routeIds": [
                "sm_delete_session_route",
                "udr_notify_route"
            ],
            "errorProfileName": "ERR_1200"
        }
    ]
}
```

Table 3-47 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
routeErrorProfileList	Array	M	Specifies the route error profile list.
routeErrorProfileList.routeIDs	Array	M	Specifies the route ID. You can define the server header at route level for any of the following supported route IDs: • sm_create_session_route • sm_delete_session_route • sm_update_session_route • udr_notify_route • chf_terminate_route • chf_notify_route • pa_create_session_route • pa_delete_session_route • pa_update_session_route • pa_events_subscription_route • pa_events_unsubscription_route • am_create_session_route • am_delete_session_route • am_update_session_route • ue_create_session_route • ue_update_session_route • ue_delete_session_route • n1_message_notify • reverse_soapconnector_service • reverse_nrf_notify_service • binding_audit_notify_route • udr_um_notify_route
routeErrorProfileList.errorProfileName	String	M	Specifies the error code profile.

Message Type

The following table describes the URIs available to define and retrieve Message Type:

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Table 3-48 Supported REST APIs for Message Type

Description	HTTP Method or Custom Operation	Resource URI
GET Message Type	GET	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/controlledshutdown/errormappings/{messageType}
PUT Message Type	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/controlledshutdown/errormappings/{messageType}

The sample request body structure for PUT operation is as follows:

```
{
  "messageType": "CER",
  "ansWithResultCode": "CUSTOM_RESULT_CODE",
  "resultCode": "7899",
  "useExperimentalResultCode": true,
  "vendorId": "2"
}
```

Table 3-49 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
messageType	String	M	Type of the request
ansWithResultCode	Enum The supported values are: • DIAMETER_TOO_BUSY • DIAMETER_UNABLE_TO_COMPLY • DIAMETER_UNABLE_TO_DELIVER • CUSTOM_RESULT_CODE	M	Specifies the result code, returned in the answer response.

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Table 3-49 (Cont.) Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
resultCode	Integer	M	Specify a value for this parameter when you choose `CUSTOM_RESULT_CODE` value for the `ansWithResultCode` parameter. Specifies the custom result code, which is returned in the answer response. .
useExperimentalResultCode	Boolean	O	Specify a value for this parameter when you choose `CUSTOM_RESULT_CODE` value for the `ansWithResultCode` parameter. Specifies the value of result code by user according to their requirement. Result code associates with the vendor ID, when the useExperimentalResultCode is true.
vendorId	Integer	O	Specify a value for this parameter when you choose `CUSTOM_RESULT_CODE` value for the `ansWithResultCode` parameter and `useExperimentalResultCode` is true.

Export/Import

The following table describes the URIs available to define and retrieve Export/Import:

Table 3-50 Supported REST APIs for Export/Import

Description	HTTP Method or Custom Operation	Resource URI
GET Export	GET	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/controlledshutdown/errormappings/export
Put Import	PUT	{apiRoot}/oc-cnpolicy-configuration/v1/diameter/controlledshutdown/errormappings/import

The sample response body structure for PUT operation is as follows:

```
"exportData": [
    {
      "messageType": "Rx_AAR_I",
      "ansWithResultCode": "CUSTOM_RESULT_CODE",
      "useExperimentalResultCode": false,
      "resultCode": "1300"
    },
    {
      "messageType": "Rx_AAR_U",
```


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```
    "ansWithResultCode": "DIAMETER_TOO_BUSY",
    "useExperimentalResultCode": false
  },
  {
    "messageType": "STR",
    "ansWithResultCode": "CUSTOM_RESULT_CODE",
    "useExperimentalResultCode": true,
    "resultCode": "2109",
    "vendorId": "1"
  }
```

Table 3-51 Request/Response Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
messageType	String	M	Type of the request
ansWithResultCode	Enum The supported values are: • DIAMETER_TOO_BUSY • DIAMETER_UNABLE_TO_COMPLY • DIAMETER_UNABLE_TO_DELIVER • CUSTOM_RESULT_CODE	M	Specifies the result code, returned in the answer response.
resultCode	Integer	M	Specify a value for this parameter when you choose `CUSTOM_RESULT_CODE` value for the `ansWithResultCode` parameter. Specifies the custom result code, which is returned in the answer response. .
useExperimentalResultCode	Boolean	O	Specify a value for this parameter when you choose `CUSTOM_RESULT_CODE` value for the `ansWithResultCode` parameter. Specifies the value of result code by user according to their requirement. Result code associates with the vendor ID, when the useExperimentalResultCode is true.
vendorId	Integer	O	Specify a value for this parameter when you choose `CUSTOM_RESULT_CODE` value for the `ansWithResultCode` parameter and `useExperimentalResultCode` is true.

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3.13 NF Scoring for a Site

The following table describes the URI available to define NF Scoring:

Table 3-52 REST API for NF Scoring

Description	HTTP Method or Custom Operation	Resource API
GET for NF Score	GET	/oc-cnpolicy-configuration/v1/nfscore

Table 3-53 Fields

Field Name	Mandatory (M)/ Optional(O)/ Conditional(C)	Datatype	Description
NF Score	M	Float	The score of a site based on NF-specific factors (metrics, alerts, and so on).
detailedReport	M	NA	Detailed report of NFScore calculation.
scoringFactors	M	NA	Comprises the factors that contributed to the NFScore
criteria	C	NA	Factors involved in NFScore calculation Criteria are present for a specific factor If it is enabled for NF-Scoring.
maxScore	C	Integer	Max score of that factor maxScore is present for a specific factor If it is enabled for NF-Scoring.
calculatedScore	C	Float	calculated score of that factor calculatedScore are present for a specific factor If it is enabled for NF-Scoring.
additionalInfo	O	NA	additional info related to factor's score calculation.
configuredValue	C	Integer	An expected value configured for a factor configuredValue is present for a specific factor If it is enabled for NF-Scoring.

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Table 3-53 (Cont.) Fields

Field Name	Mandatory (M)/ Optional(O)/ Conditional(C)	Datatype	Description
actualValue	C	Float	An actual value for a particular factor after doing factor-specific configuration. actualValue is present for a specific factor If it is enabled for NF-Scoring.
totalSvcs	C	Integer	Total configured services. totalSvcs is present when the factor SVC-Health is enabled
upSvcs	C	Integer	Total running services. upSvcs is present when the factor SVC-Health is enabled
totalSites	C	Integer	Total configured sites totalSites is present when the factor replicationHealth is enabled.
availableLinks	C	Integer	Total healthy sites availableLinks is present when the factor replicationHealth is enabled.
critical	C	Integer	Critical alert's contribution to alert's calculated score This attribute is present when ActiveAlerts are enabled as NF-Scoring factor
major	C	Float	Major alert's contribution to alert's calculated score This attribute is present when ActiveAlerts are enabled as NF-Scoring factor
minor	C	Float	Minor alert's contribution to alert's calculated score This attribute is present when ActiveAlerts are enabled as NF-Scoring factor

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Table 3-53 (Cont.) Fields

Field Name	Mandatory (M)/ Optional(O)/ Conditional(C)	Datatype	Description
failedFactors	C	Float	Enabled factors that failed to contribute to NFScore This attribute is present when an application fails to calculate the score for 1 or more factors.
detail	C	NA	Factor's failure reason This attribute is present when there are 1 or more failed factors.

Note: When the Enable flag is true for any criteria, then its related fields will be shown.

Sample Response Body for GET NF Score:


```
{
  "NFScore": 129,
  "detailedReport": {
    "scoringFactors": [
      {
        "criteria": "tps",
        "maxScore": 100,
        "calculatedScore": 75,
        "additionalInfo": {
          "configuredValue": 4000,
          "actualValue": 3000
        }
      },
      {
        "criteria": "serviceHealth",
        "maxScore": 100,
        "calculatedScore": 70,
        "additionalInfo": {
          "totalSvcs": 10,
          "upSvcs": 7
        }
      },
      {
        "criteria": "signallingConnections",
        "maxScore": 100,
        "calculatedScore": 50,
        "additionalInfo": {
          "configuredValue": 50,
          "actualValue": 25
        }
      },
      {
        "criteria": "replicationHealth",
```


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```
        "maxScore": 100,
        "calculatedScore": 50,
        "additionalInfo": {
          "totalSites": 3,
          "availableLinks": 1
        }
      },
      {
        "criteria": "localityPreference",
        "maxScore": 100, #remove
        "calculatedScore": 100
      },
      {
        "criteria": "activeAlert",
        "score": -30,#rename to "calculatedScore"
        "additionalInfo": {
          "critical": -10,
          "major": -20,
          "minor": 0
        }
      }
    ]
  },
  "failedFactors": [
    {
      "criteria": "replicationHealth",
      "detail": "failed to calculate replicationHealth score"
    }
  ]
}
```

3.14 Configuration for User-Agent Header Generation at Egress Gateway

Configuring User-Agent Header in Egress Gateway

This section describes the URIs that you can configure for user-agent header generation at Egress Gateway.

The configuration to enable and disable the generation of the user-agent header can be done using REST API exposed by the config-service when sending the following JSON body.

Table 3-54 Supported REST APIs for User-Agent Generation

Description	HTTP Method or Custom Operation	Resource URI
PUT User-Agent Generation	PUT	http://<config-service IP>:<config-service PORT>/pcf/nf-common-component/v1/egw/useragentheader

CURL command for PUT Operation: `curl -X PUT http://10.75.232.35:8000/pcf/nf-common-component/v1/egw/useragentheader -H "Content-Type: application/json" -d`

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The sample request body structure for PUT operation is as follows:

```
{
     "enabled": true,
     "nfType": "PCF",
     "nfInstanceId": "fe7d992b-0541-4c7d-ab84-c6d70b1b0555",
     "nfFqdn": "pcf.oracle.org",
     "addFqdnToHeader": true,
     "overwriteHeader": true
}
```

Table 3-55 Request Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
egress-gateway.userAgentHeader.enabled	Boolean	M	Specifies whether the feature is enabled or disabled. By default, the value is set to false.
egress-gateway.userAgentHeader.nfType	String	M	This parameter holds the nfType that will be used to generate the user agent header.
egress-gateway.userAgentHeader.nfInstanceId	String	O	This parameter represents the UUID of the CNPCF deployment that will be used to generate the user agent header.
egress-gateway.userAgentHeader.addFqdnToHeader	Boolean	M	This parameter specifies if the user agent will use the FQDN information under the module to append it when generating the user agent header.The default value is set to 'false' meaning that the FQDN information will not be encoded into the user agent header during its generation. By default, the value is set to false.
egress-gateway.userAgentHeader.nfFqdn	String	O	This is an optional parameter and can be present or not, if operators want to include the FQDN string configured under this section then the parameter userAgentHeader.addFqdnToHeader needs to be enabled.
egress-gateway.userAgentHeader.overwriteHeader	Boolean	M	This parameter is used to govern if we want to include the User-Agent header generated at CNPCF Egress Gateway or forward the User-Agent received from service request. By default it will be set to true as CNPCF always generates its own service requests.

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A
Result Codes

This section provides detailed information about result codes.

GET HTTP Method

The following table describes the possible result codes for GET method:

Table A-1 Result Codes for GET

Code	Description
200	OK
204	Successful
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
429	Too Many Requests
500	Internal Server Error
503	Service Unavailable

PUT HTTP Method

The following table describes the possible result codes for PUT method:

Table A-2 Result Codes for PUT

Code	Description
200	Updated
201	Created
204	Successfully updated
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
406	Not Acceptable
408	Request Timeout
409	Conflict
412	Precondition Failed
500	Internal Server Error
503	Service Unavailable
504	Gateway Timeout

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POST HTTP Method

The following table describes the possible result codes for POST method:

Table A-3 Result Codes for POST

Code	Description
200	OK
201	Imported/Created
204	Successfully created
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
406	Not Acceptable
408	Request Timeout
409	Conflict
412	Precondition Failed
500	Internal Server Error
503	Service Unavailable
504	Gateway Timeout

DELETE HTTP Method

The following table describes the possible result codes for DELETE method:

Table A-4 Result Codes for DELETE

Code	Description
200	OK
204	Successfully Deleted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
429	Too Many Requests
500	Internal Server Error
503	Service Unavailable

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