Oracle® Communications
Cloud Native Core Policy REST Specification Document

Release 1.7.1

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Contents

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What's New in This Guide

Oracle Communications Cloud Native Core Policy (CNC Policy) REST API Document is a new guide in this release.

New/Updated REST APIs in Release 1.7.1

For CNC Policy Release 1.7.1, following documentation updates have been done:

- Added REST API for Bulk Import/Export. See Policy Control Function (PCF) REST Specifications
- Added REST API for Audit Service. See Policy Control Function (PCF) REST Specifications
- Updated REST API for the managed objects and services to include Import and Export Functionality. See Policy Control Function (PCF) REST Specifications
- Added REST APIs for CNPCRF. See Cloud Native Policy Charging and Rules Function (CNPCRF) REST Specifications

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Introduction

This document provides information on how to configure the services and manageable objects in Cloud Native Core Policy using API.

Overview

Oracle Communications Cloud Native Core Policy (CNC Policy) solution provides a standard policy design experience and ultimately consistent end-user experience. The Converged policy solution supports both 4G and 5G networks. In addition, the overlap in functionality between PCF and PCRF (e.g., need for a policy engine, policy design, Rx, similarity between Sy and Nchf_SpendingLimitControl, etc.), enables us to build micro-services that can be used to provide PCRF and PCF functionality. Even though it is a unified policy solution, you can still deploy the PCF and PCRF entirely independently.

The CNC Policy is a functional element for policy control decision and flows based charging control functionalities. The CNC Policy 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)
- Provide UE Route Selection Policies (URSP) rules to UE via AMF
- Accesses subscription information relevant for policy decisions in a Unified Data Repository (UDR)
- Provides network control regarding the service data flow detection, gating, QoS and flow based charging towards the Policy and Charging Enforcement Function (PCEF).
- Receives session and media related information from the AF and informs AF of traffic plane events.
- Provisions PCC Rules to the PCEF via 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

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

Acronyms

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

Table 1-1   Acronyms

Acronym	Definition
AMF	Access and Mobility Management Function
BSF	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
CNPCRF	Cloud Native Policy and Charging Rules Function
SAN	Storage Area Network
SMF	Session Management Function
UDR	Unified Data Repository

References

Refer to the following documents for more information on CNC Policy.

- Oracle Communications Cloud Native Core Policy User's Guide
- Oracle Communications Cloud Native Core Policy Installation Guide

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Policy Control Function (PCF) REST Specifications

This section provides information about REST specifications used in Policy Control Function (PCF).

> **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**.

Resource Name: Bulk Import Export Controller

Table 2-1   Supported REST APIs - Bulk Import Export Controller

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Bulk Import Export Controller	/oc-cnpolicy-configuration/v1/administration/import	POST	Bulk Import	See Table A-3
	/oc-cnpolicy-configuration/v1/administration/import/{importResourceId}/status	GET	Import Status	See Table A-1
	/oc-cnpolicy-configuration/v1/administration/import/{importResourceId}/report	GET	Import Report	See Table A-1
	/oc-cnpolicy-configuration/v1/administration/export	POST	Bulk Export	See Table A-3
	/oc-cnpolicy-configuration/v1/administration/export/{exportResourceId}/status	GET	Export Status	See Table A-1

Table 2-1   (Cont.) Supported REST APIs - Bulk Import Export Controller

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/oc-cnpolicy-configuration/v1/administration/export/{exportResourceId}/report	GET	Export Report	See Table A-1
	/oc-cnpolicy-configuration/v1/administration/export/{exportResourceId}/download	GET	Download Exported File	See Table A-1

Below are the status displayed by Bulk import/export:

- **IN_PROGRESS**: If the import/export is running.

- **DONE**: If the import/export is finished. Following are the possible status if the import/export is in DONE status:

  - **SUCCESS** : If the import/export is successful

  - **FAILED** : If the import/export is failed

  - **PARTIAL_SUCCESS** : If the import/export is partially successful

Resource Name: Data Sources

Table 2-2   Supported REST APIs - Data Sources

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

Table 2-2   (Cont.) Supported REST APIs - Data Sources

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/oc-cnpolicy-configuration/v1/datasources/{datasourceName}	PUT	Update Data Sources	See Table A-2
	/oc-cnpolicy-configuration/v1/datasources/{datasourceName}	DELETE	Delete Data Sources	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Data Sources

Table 2-3   Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
admin_state	boolean	O	1	when value is set to true, datasource (sh/sy) interaction takes place. **Default Value**: true
description	String	O	1	Details about the data source.
enable_subscription	boolean	O	1	Indicates whether MPE needs to subscribe to notifications from SH. **Default Value**: true
name	String	O	1	Data Source Name
primary_server	array	M	1	Primary data source server. The LDAP connection will be established with primary data source.
quaternary_server	array	O	1	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	1	Number of read connections established with data source.

Table 2-3   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
realm	string	O	1	Defines the realm of the primary and optional secondary servers to connect (required).
role	string	O	1	only relevant for "Sy" datasource type. Possible values are: • **Primary** – Irrespective of policy deployed, interaction with datasource will happen. • **Secondary** – • **On Demand** – When policy demands, then only interaction with datasource happens.
search_criteria	array	O	1	The criteria on which the data source search will be performed.
search_filter	array	O	1	
secondary_server	array	O	1	Secondary data source server. If Primary server is not reachable, then LDAP connection will be established with secondary (if available).
sh_profile	string	O	1	Define the Sh Profile to use with this data source.
tertiary_server	array	O	1	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	1	
type	string	O	1	Type of data source. Possible values are: Sh, Sy, and LDAP

Table 2-3   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
use_notif_eff	boolean	O	1	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.

Export and Import Data Sources

Table 2-4   Data structures supported by Get All (Export) and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of data sources. For more information, see Table 2-3
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

DELETE - delete data source

Table 2-5   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
Data Source Name	string		M	1	Data Source Name

Resource Name: Peer Node

Table 2-6   Supported REST APIs - Peer Node

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Peer Node	/oc-cnpolicy-configuration/v1/diameter/peernodes	POST	Create Peer Node	See Table A-3
	/oc-cnpolicy-configuration/v1/diameter/peernodes/export	GET	Get All (Export) Peer Nodes	See Table A-1
	/oc-cnpolicy-configuration/v1/diameter/peernodes/import	POST	Import Peer Nodes	See Table A-3
	/oc-cnpolicy-configuration/v1/diameter/peernodes/{peernodeName}	GET	Get Peer Node	See Table A-1
	/oc-cnpolicy-configuration/v1/diameter/peernodes/{peernodeName}	PUT	Update Peer Node	See Table A-2
	/oc-cnpolicy-configuration/v1/diameter/peernodes/{peernodeName}	DELETE	Delete Peer Node	See Table A-4

Resource Standard Methods
GET and PUT - Get, Create, and Update Peer Node

Table 2-7   Data structures supported by the GET and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardin ality	Description
diamName	String	O	1	Unique Name of the Peer Node
dtype	String	O	1	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	1	The host name. Enter a FQDN, ipv4 or ipv6 address available for establishing diameter transport connections to the peer node.
identity	String	O	1	An identity to define a node in a realm.
initiateConnectio n	boolean	O	1	Set it to True to initiate a connection for this peer node. **Default Value**: FALSE
port	Number	O	1	The port number. Enter a number from 0 to 65535.
realm	String	O	1	The realm name, that is, FQDNs to all of that computers that transact diameter traffic.
reconnectLimit	Number			

DELETE - delete peer node

Table 2-8   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardin ality	Description
Peer Node Name	string		M	1	Peer Node Name

Get All (Export) and Import Peer Node

Table 2-9   Data structures supported by Export and Import Response Body

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

Table 2-9   (Cont.) Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
exportData	array			Exported list of peer nodes. For more information, see Table 2-7
key	string			Indicates the ID
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Resource Name: Diameter Routing Table

Table 2-10   Supported REST APIs - Diameter Routing Table

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

Resource Standard Methods
GET and PUT - Get and Update Diameter Routing Table

Table 2-11   Data structures supported by the GET and PUT Response Body

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

Table 2-12   defaultRoute

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

Table 2-13   routeTable

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

Export and Import Diameter Routing Table

Table 2-14   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of diamteter routing table. For more information, see #unique_10/ unique_10_Conn ect_42_TABLE_I ST_XGF_HMB
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Resource Name: Diameter Settings

Table 2-15   Supported REST APIs - Diameter Settings

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

Resource Standard Methods
GET and PUT - Get and Update diameter settings

Table 2-16   Data structures supported by the GET and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
timer	timer	O		
transport	transport	O		

Table 2-17   timer

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
connectionTimeout	Number	O	1	Defines the connection timeout interval in seconds. The default is 3 seconds.

Table 2-17   (Cont.) timer

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
reconnectDelay	Number	O	1	Defines the time frame to delay before attempting to reconnect after a connection failure in seconds. The default is 3 seconds.
responseTimeout	Number	O	1	Defines the response timeout interval in seconds. The default is 5 seconds.
watchdogInterval	Number	O	1	Defines the watchdog interval in seconds. The default is 6 seconds.

Table 2-18   transport

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

Export and Import Diameter Settings

Table 2-19   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of diameter settings. For more information, see Table 2-16
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Resource Name: Global Configurations

Table 2-20   Supported REST APIs - Global Configurations

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Global Configurations	/oc-cnpolicy-configuration/v1/general	GET	Get Individual Global Configuration	See Table A-1
Global Configurations	/oc-cnpolicy-configuration/v1/general	PUT	Update Global Configuration	See Table A-2
Global Configurations	/oc-cnpolicy-configuration/v1/general/export	GET	Get All Global Configurations	See Table A-1
Global Configurations	/oc-cnpolicy-configuration/v1/general/import	POST	Import Global Configurations	See Table A-3

Resource Standard Methods
GET and PUT - Get and Update individual global configuration

Table 2-21   Data structures supported by the GET and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
apiGatewayHost	String	O	1	Name for the API gateway host
apiGatewayPort	Number	O	1	Port number of the API gateway
enableMetrics	boolean	O	1	This determines if system metrics is enabled. This will take priority on global metrics config. **Default Value**: TRUE
enableTLS	boolean	O	1	This determines if TLS is enabled. **Default Value**: TRUE
enableTracing	boolean	O	1	This determines if tracing is enabled. **Default Value**: TRUE

Table 2-21   (Cont.) Data structures supported by the GET and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
enableSubscriber Log	boolean	O	1	This determines if subscriber logging is enabled for a subscriber. **Default Value**: FALSE

Get All and Import Global Configurations

Table 2-22   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of diameter settings. For more information, see Table 2-21
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Resource Name: Policy Control Id

Table 2-23   Supported REST APIs - Policy Control Id

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Policy Control Id	/oc-cnpolicy-configuration/v1/ policydata/ common/ policycounterids	POST	Create Policy Control Id	See Table A-3
	/oc-cnpolicy-configuration/v1/ policydata/ common/ policycounterids /export	GET	Export Policy Control Id	See Table A-1

Table 2-23   (Cont.) Supported REST APIs - Policy Control Id

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/oc-cnpolicy-configuration/v1/policydata/common/policycounterids/import	POST	Import Policy Control Id	See Table A-3
	/oc-cnpolicy-configuration/v1/policydata/common/policycounterids/{policyCounterIdName}	GET	Get Policy Control Id	See Table A-1
	/oc-cnpolicy-configuration/v1/policydata/common/policycounterids/{policyCounterIdName}	PUT	Update Policy Control Id	See Table A-2
	/oc-cnpolicy-configuration/v1/policydata/common/policycounterids/{policyCounterIdName}	DELETE	Delete Policy Control Id	See Table A-4

Resource Standard Methods
GET, POST, and PUT - Get, create, and update Policy Control Id

Table 2-24   Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
defaultStatus	string		O	1	Specifies the default status of Policy Counter Id.
desc	string		O	1	Specifies the description of Policy Counter Id.

Table 2-24   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
id	string		O		Specifies the ID of Policy Counter Id.
name	string		M	1	Specifies the name of Policy Counter Id.

DELETE - Delete Policy Control Id

Table 2-25   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
policyControlIdName	string		M	1	Policy Counter Id's Name

Export and Import Policy Control Id

Table 2-26   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of policy control id. For more information, see Table 2-24
key	string			Indicates the ID
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Resource Name: Policy Table

Table 2-27   Supported REST APIs - Policy Table

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Policy Table		POST	Create Policy Tables	See Table A-3
	/oc-cnpolicy-configuration/v1/policydata/common/policytables/export	GET	Export Policy Tables	See Table A-1
	/oc-cnpolicy-configuration/v1/policydata/common/policytables/import	POST	Import Policy Tables	See Table A-3
	/oc-cnpolicy-configuration/v1/policydata/common/policytables/{serviceName}/{policyTableName}	DELETE	Delete Policy Table	See Table A-4

Resource Standard Methods
POST, GET - Import and Export policy tables

Table 2-28   Data structures supported by the POST, GET Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
columns	array	O	1	Specifies the column of a policy table.
name	String	O	1	Specifies the name of a policy table.
description	name	O	1	Specifies the description of a policy table.
rows	array	O	1	Specifies the rows of a policy table.

DELETE - delete policy table

Table 2-29   Data structures supported by the DELETE Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
policyTableName	string	M	1	Policy Table Name
serviceName	string	M		Service Name

Export and Import Policy Table

Table 2-30   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors:message	string			
errors:name	string			
exportData	array			Exported list of policy tables. For more information, see Table 2-28
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Resource Name: Presence Reporting Area

Table 2-31   Supported REST APIs - Presence Reporting Area

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Presence Reporting Area	/oc-cnpolicy-configuration/v1/ policydata/ common/pras	POST	Create Presence Reporting Area	See Table A-3
	/oc-cnpolicy-configuration/v1/ policydata/ common/pras/ export	GET	Export Presence Reporting Area	See Table A-1
	/oc-cnpolicy-configuration/v1/ policydata/ common/pras/ import	POST	Import Presence Reporting Area	See Table A-3

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Table 2-31   (Cont.) Supported REST APIs - Presence Reporting Area

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/oc-cnpolicy-configuration/v1/ policydata/ common/pras/ {presenceRepor tingAreaName}	GET	Get Presence Reporting Area	See Table A-1
	/oc-cnpolicy-configuration/v1/ policydata/ common/pras/ {presenceRepor tingAreaName}	PUT	Update Presence Reporting Area	See Table A-2
	/oc-cnpolicy-configuration/v1/ policydata/ common/pras/ {presenceRepor tingAreaName}	DELETE	Delete Presence Reporting Area	See Table A-4

Resource Standard Methods

GET, POST, and PUT - Get, create, and update presence reporting area

Table 2-32   Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O) / Conditiona l(C)aints	Cardinality	Description
ecgiList	PresenceRe portingArea EcgiList		O	1	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 2-32 (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
globalRanNodeId List	PresenceRe portingArea globalRanN odeIdList		O	1	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	1	The unique name assigned to the PRA.
praId	String		M	1	The unique identifying number of the PRA list. The ID must be numeric value between 0 and 16777125.
ncgiList	PresenceRe portingArea NcgiList		O	1	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.

Table 2-32   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
presenceState	ENUM	IN_AREA, OUT_OF_AREA, UNKNOWN, INACTIVE	O	1	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.

Table 2-32   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
trackingAreaList	PresenceReportingArea TrackingAreaList		O	1	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 2-33   PresenceReportingAreaEcgiList

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

Table 2-34   PresenceReportingAreaglobalRanNodeIdList

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
gNbId	GNbId		This field is included if the RAN Node Id represents a gNB. When present, this field contains the identifier of the gNB.
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.

Table 2-34   (Cont.) PresenceReportingAreaglobalRanNodeIdList

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
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.
plmnId	PlmnId	M	Indicates the identity of the PLMN that the RAN node belongs to.

Table 2-35   PlmnId

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

Table 2-36   PresenceReportingAreaNcgiList

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

Table 2-37   PresenceReportingAreaTrackingAreaList

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

Table 2-37   (Cont.) PresenceReportingAreaTrackingAreaList

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
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".

DELETE - Delete presence reporting area

Table 2-38   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
presenceReportingAreaName	string		M	1	Presence Reporting Area Name

Export and Import Presence Reporting Area

Table 2-39   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of presence reporting area. For more information, see Table 2-32
key	string			Indicates the ID
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Subsciber Logging

Table 2-40   Supported REST APIs - Subscriber Logging

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

Table 2-40   (Cont.) Supported REST APIs - Subscriber Logging

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

Resource Standard Methods
GET, POST, and PUT - Get, create, and update subscriber logging

Table 2-41   Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
enable	boolean				
type	string	gpsi supi ipv4Addr ipv6Prefix			
value	string				

DELETE - Delete subscriber logging

Table 2-42   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
identifierValue	string		M	1	Subscriber Identifier

Export and Import Subscriber Logs

Table 2-43   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of subscriber logs. For more information, see Table 2-41
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Resource Name: Service Area Restriction

Table 2-44   Supported REST APIs - Service Area Restriction

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Service Area Restriction	/oc-cnpolicy-configuration/v1/ policydata/ pcfam/ servicearearestri ctions	POST	Create Service Area Restriction	See Table A-3
	/oc-cnpolicy-configuration/v1/ policydata/ pcfam/ servicearearestri ctions/export	GET	Export All Service Area Restrictions	See Table A-1
	/oc-cnpolicy-configuration/v1/ policydata/ pcfam/ servicearearestri ctions/import	POST	Import All Service Area Restrictions	See Table A-3
	/oc-cnpolicy-configuration/v1/ policydata/ pcfam/ servicearearestri ctions/ {serviceAreaRes trictionName}	GET	Get Service Area Restriction	See Table A-1

Table 2-44   (Cont.) Supported REST APIs - Service Area Restriction

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/oc-cnpolicy-configuration/v1/policydata/pcfam/servicearearestrictions/{serviceAreaRestrictionName}	PUT	Update Service Area Restriction	See Table A-2
	/oc-cnpolicy-configuration/v1/policydata/pcfam/servicearearestrictions/{serviceAreaRestrictionName}	DELETE	Delete Service Area Restriction	See Table A-4

Resource Standard Methods
GET, POST, and PUT - Get, create, and update service area restriction

Table 2-45   Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
areas	Service AreaRestriction Areas		O	1	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	1	Specifies description of the Service Area Restriction
maxNumOfTAs	boolean		O	1	Specifies maximum number of TAs

Table 2-45   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardin ality	Description
name	string		M	1	Specifies name of the Service Area Restriction
restrictionType	ENUM	ALLOWED_ARE AS, NOT_ALLOWED _AREAS	O	1	Possible values are: • ALLOWED_ AREAS • NOT_ALLO WED_AREA S

Table 2-46   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.

DELETE - delete service area restriction

Table 2-47   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O) / Conditiona l(C)	Cardinality	Description
serviceAreaRestr ictionName	string		M	1	Service Area Restriction Name

Export and Import Service Area Restrictions

Table 2-48   Data structures supported by Export and Import Response Body

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

Table 2-48   (Cont.) Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
exportData	array			Exported list of service area restrictions. For more information, see Table 2-45
key	string			Indicates the ID
sourceVersion	string			System version of product from which data is exported
systemVersion				
topic	string			Topic of each managed object

Resource Name: Charging Data

Table 2-49   Supported REST APIs - Charging Data

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

Table 2-49   (Cont.) Supported REST APIs - Charging Data

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/oc-cnpolicy-configuration/v1/policydata/pcfsm/chargingdata/{chargingDataName}	PUT	Update Condition Data	See Table A-2
	/oc-cnpolicy-configuration/v1/policydata/pcfsm/chargingdata/{chargingDataName}	DELETE	Delete Charging Data	See Table A-4

Resource Standard Methods
GET, POST, and PUT - Get, create, and update charging data

Table 2-50   Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
afChargingIdentifiercgiList	integer ($int64), Enter a value between 0 and 4294967295		O	1	Univocally identifies the charging control policy data within a PDU session.
appSvcProvId	string		O	1	Indicates the application service provider identity.
chgId	string		M		Specifies the charging id.
description	string		O	1	The description of the Charging Data.

Table 2-50   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
meteringMethod	ENUM	DURATION, VOLUME, DURATION_ VOLUME, EVENT	O	1	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	1	The name of the Charging Data.

Table 2-50   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
offline	boolean		O	1	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	1	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	1	The charging key for the PCC rule used for rating purposes.

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Table 2-50 (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
reportingLevel	ENUM	SER_ID_LEVEL, RAT_GR_LEVEL, SPON_CON_LEV	O	1	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.
serviceId	integer ($int64), Enter a value between 0 and 4294967295		O	1	Indicates the identifier of the service or service component the service data flow in a PCC rule relates to.
sponsorId	string		O	1	Indicates the sponsor identity.

DELETE - Delete charging data

Table 2-51   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
chargingDataName	string		M	1	Charging Data Name

Export and Import Charging Data

Table 2-52   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of charging data. For more information, see Table 2-50
key	string			Indicates the ID
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Resource Name: Condition Data

Table 2-53   Supported REST APIs - Condition Data

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Condition Data	/oc-cnpolicy-configuration/v1/policydata/pcfsm/conditiondata	POST	Create Condition Data	See Table A-3
	/oc-cnpolicy-configuration/v1/policydata/pcfsm/conditiondata/export	GET	Export Condition Data	See Table A-1

Table 2-53   (Cont.) Supported REST APIs - Condition Data

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

Resource Standard Methods
GET, POST, and PUT - Get, create, and update condition data

Table 2-54   Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
activationTime	string, example : YYYY-MM-DDTHH:MM:SS		O	1	The time when the decision data shall be activated.
condId	string		O	1	Specifies the condition ID.

Table 2-54   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
deactivationTime	string example : YYYY-MM-DDTHH:MM:SS		O	1	The time when the decision data shall be deactivated.
description	string		O	1	The description of the Condition Data policy data.
name	string		M	1	The name of the Condition Data policy data.

DELETE - Delete condition data

Table 2-55   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
conditionDataName	string		M	1	The name of the Condition Data policy data.

Export and Import Condition Data

Table 2-56   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of condition data. For more information, see Table 2-54
key	string			Indicates the ID

Table 2-56   (Cont.) Data structures supported by Export and Import Response Body

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

Resource Name: PCC Rule Profile

Table 2-57   Supported REST APIs - PCC Rule Profile

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
PCC Rule Profile	/oc-cnpolicy-configuration/v1/ policydata/ pcfsm/ pccruleprofiles	POST	Create PCC Rule Profile	See Table A-3
	/oc-cnpolicy-configuration/v1/ policydata/ pcfsm/ pccruleprofiles/ export	GET	Export PCC Rule Profiles	See Table A-1
	/oc-cnpolicy-configuration/v1/ policydata/ pcfsm/ pccruleprofiles/ import	POST	Import PCC Rule Profile	See Table A-3
	/oc-cnpolicy-configuration/v1/ policydata/ pcfsm/ pccruleprofiles/ {pccRuleProfile Name}	GET	Get PCC Rule Profile	See Table A-1
	/oc-cnpolicy-configuration/v1/ policydata/ pcfsm/ pccruleprofiles/ {pccRuleProfile Name}	PUT	Update PCC Rule Profile	See Table A-2

Table 2-57   (Cont.) Supported REST APIs - PCC Rule Profile

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

Resource Standard Methods
GET, POST, and PUT - Get, create, and update PCC Rule Profile

Table 2-58   Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
afSigProtocol	ENUM	NO_INFORMATION, SIP	O	1	Specifies the protocol used for signaling between the UE and the AF.
appId	string		O	1	A reference to the application detection filter configured at the UPF.
appReloc	boolean		O	1	Specifies application relocation possibility.
contVer	string		O	1	Specifies the content version of the PCC rule.
description	string		O	1	Description of PCC Rule Profile.
flowInfos	FlowInfos		O	1	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.

Table 2-58   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	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 a policy decision type.
refUmData	string				A reference to UsageMonitoring Data policy decision type.
type	ENUM	DYNAMIC, PREDEFINED			Possible values are: • DYNAMIC • PREDEFINED

Table 2-59   FlowInfos

Field Name	Data Type	Constraints	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	DOWNLINK, UPLINK, BIDIRECTIONAL, UNSPECIFIED		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.
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 2-60   ethFlowDescription

Field Name	Data Type	Constraints	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.
fDir	ENUM	DOWNLINK, UPLINK, BIDIRECTIONAL, UNSPECIFIED		Indicates the flow direction. Select from the following options: • DOWNLINK • UPLINK • BIDIRECTIONAL • UNSPECIFIED

Table 2-60   (Cont.) ethFlowDescription

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
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.

DELETE - Delete PCC rule profile

Table 2-61   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
PCCRuleProfileName	string		M	1	PCC Rule Profile Name

Export and Import PCC Rule Profile

Table 2-62   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors:message	string			
errors:name	string			
exportData	array			Exported list of PCC rule profiles. For more information, seeTable 2-58
key	string			Indicates the ID of PCC Rule Profile
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Resource Name: PCC Rule

Table 2-63   Supported REST APIs - PCC Rule

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

Table 2-63 (Cont.) Supported REST APIs - PCC Rule

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

Resource Standard Methods
GET, POST, and PUT - Get, create, and update PCC Rule

Table 2-64 Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
afSigProtocol	ENUM	NO_INFORMATION, SIP	O	1	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.
appId	string		O	1	A reference to the application detection filter configured at the UPF.

Table 2-64   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
appReloc	boolean		O	1	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	1	Indicates the content version of the PCC rule.
description	string		O	1	The description of the PCC rule
flowInfos	FlowInfos		O	1	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.

Table 2-64   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
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 TrafficControlDat a policy decision type.
refUmData	string		O		A reference to UsageMonitoring Data policy decision type.
type	ENUM	DYNAMIC, PREDEFINE D	O		

Table 2-65   FlowInfos

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

Table 2-65   (Cont.) FlowInfos

Field Name	Data Type	Constraints	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 2-66   ethFlowDescription

Field Name	Data Type	Constraints	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

Table 2-66   (Cont.) ethFlowDescription

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
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.
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	DOWNLINK, UPLINK, BIDIRECTIONAL, UNSPECIFIED	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

Table 2-66 (Cont.) ethFlowDescription

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
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.

DELETE - Delete PCC Rule

Table 2-67   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
PCCRuleName	string		M	1	PCC Rule Name

Export and Import PCC Rule

Table 2-68   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors:message	string			
errors:name	string			
exportData	array			Exported list of PCC rules. For more information, see Table 2-64
key	string			Indicates the ID of PCC Rule
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Resource Name: QoS Data

Table 2-69   Supported REST APIs - QoS Data

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

Table 2-69   (Cont.) Supported REST APIs - QoS Data

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/oc-cnpolicy-configuration/v1/policydata/pcfsm/qosdata/{qosDataName}	DELETE	Delete QoS Data	See Table A-4

Resource Standard Methods
GET, POST, and PUT - Get, create, and update QoS Data

Table 2-70   Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
5qi	string ($int32) enter a range in [0-255] number		O	1	Identifier for the authorized QoS parameters for the service data flow. It shall be included when the QoS data decision.
arp	Arp		O	1	ARP information
averwindow	string				
defQosFlowIndication	boolean		O	1	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

Table 2-70   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
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.

Table 2-70   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	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	1	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.

Table 2-70   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
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 2-71   Arp

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

DELETE - Delete QoS Data

Table 2-72   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
qosDataName	string		M	1	Qos Data Name

Export and Import QoS Data

Table 2-73   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of QoS data. For more information, see Table 2-70
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

Resource Name: QoS Information

Table 2-74   Supported REST APIs - QoS Information

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
QoS Information	/oc-cnpolicy-configuration/v1/ policydata/ pcfsm/ qosinformation	POST	Create QoS Information	See Table A-3
	/oc-cnpolicy-configuration/v1/ policydata/ pcfsm/ qosinformation/ export	GET	Export QoS Information	See Table A-1

Table 2-74   (Cont.) Supported REST APIs - QoS Information

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

Resource Standard Methods
GET, POST, and PUT - Get, create, and update QoS Information

Table 2-75   Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
5qi	string ($int32) enter a range in [0-255] number		O	1	Identifier for the authorized QoS parameters for the service data flow. It shall be included when the QoS data decision is initially provisioned.

Table 2-75   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
arp	Arp		O	1	Indicates the allocation and retention priority. It shall be included when the Authorized Default QoS is initially provisioned.
averWindow	string example : 2000		O		Represents the duration over which the guaranteed and maximum bitrate shall be calculated (NOTE).
description	string		O		The description of the Qos Information.
maxDataBurstVol	string example : 2000				Denotes the largest amount of data that is required to be transferred within a period of 5GAN PDB (NOTE).
name	string		M	1	The name of the Qos Information.
priorityLevel	integer ($int32)		O		Unsigned integer indicating the 5QI Priority Level, within a range of 1 to 127.

Table 2-76   Arp

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
preemptCap	ENUM	NOT_PREEMPT, MAY_PREEMPT	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_PREE MPT : Shall not trigger pre-emption. • MAY_PREE MPT : May trigger pre-emption.
preemptVuln	ENUM	NOT_PREEMPT ABLE, PREEMPTABLE	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_PREE MPTABLE : Shall not be pre-empted. • PREEMPTA BLE : May be pre-empted.
priorityLevel	integer ($int32)		M	Unsigned integer indicating the ARP Priority Level, within the range 1 to 15.

DELETE - Delete QoS Information

Table 2-77   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
qosInformationN ame	string		M	1	Qos Information Name

Export and Import QoS Information

Table 2-78   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of QoS information. For more information, see Table 2-75
key	string			Indicates the ID of QoS Information
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Resource Name: Session Rule Profile

Table 2-79   Supported REST APIs - Session Rule Profile

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Session Rule Profile	/oc-cnpolicy- configuration/v1/ policydata/ pcfsm/ sessionruleprofil es	POST	Create Session Rule Profile	See Table A-3

Table 2-79   (Cont.) Supported REST APIs - Session Rule Profile

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

Resource Standard Methods
GET, POST, and PUT - Get, create, and update Session Rule Profile

Table 2-80   Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
authDefQosId	string		O	1	Authorized default QoS information
authSessAmbr	AuthSessAmbr		O	1	Authorized Session-AMBR
description	string				Specifies the description of the Session Rule Profile
name	string		M	1	Specifies the name of the Session Rule Profile
refCondData	stiring				
sessRuleProfileId	string		M	1	Specifies the Session Rule Profile ID

Table 2-81   AuthSessAmbr

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

DELETE - Delete Session Rule Profile

Table 2-82   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
sessionRuleProfileName	string		M	1	Session Rule Profile Name

Export and Import Session Rule Profile

Table 2-83   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors:message	string			
errors:name	string			
exportData	array			Exported list of session rule profiles. For more information, see Table 2-80
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

Resource Name: Session Rule

Table 2-84   Supported REST APIs - Session Rule

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

Table 2-84   (Cont.) Supported REST APIs - Session Rule

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

Resource Standard Methods
GET, POST, and PUT - Get, create, and update Session Rule

Table 2-85   Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
authDefQosId	string		O	1	Authorized default QoS information
authSessAmbr	AuthSessAmbr		O	1	Authorized Session-AMBR
description	string		O		Specifies the description of the Session Rule
name	string		M	1	Specifies the name of the Session Rule
refCondData	string				specifies the reference to the condition data

Table 2-85   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
sessRuleId	string		M	1	Specifies the Session Rule ID

Table 2-86   AuthSessAmbr

Field Name	Data Type	Constraints	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

DELETE - Delete Session Rule Profile

Table 2-87   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
sessionRuleName	string		M	1	Session Rule Name

Export and Import Session Rule

Table 2-88   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors:message	string			
errors:name	string			
exportData	array			Exported list of session rules. For more information, see Table 2-85
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

Resource Name:Traffic Control Data

Table 2-89   Supported REST APIs - Traffic Control Data

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

Table 2-89   (Cont.) Supported REST APIs - Traffic Control Data

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/oc-cnpolicy-configuration/v1/policydata/pcfsm/trafficcontroldata/{trafficControlDataName}	GET	Get Traffic Control Data	See Table A-1
	/oc-cnpolicy-configuration/v1/policydata/pcfsm/trafficcontroldata/{trafficControlDataName}	PUT	Update Traffic Control Data	See Table A-2
	/oc-cnpolicy-configuration/v1/policydata/pcfsm/trafficcontroldata/{trafficControlDataName}	DELETE	Delete Traffic Control Data	See Table A-4

Resource Standard Methods
GET, POST, and PUT - Get, create, and update Traffic Control Data

Table 2-90   Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/Optional(O)/Conditional(C)aints	Cardinality	Description
description	string		O		The description of the Traffic Control policy data.

Table 2-90   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
flowStatus	ENUM	ENABLED-UPLINK, ENABLED-DOWNLINK, ENABLED, DISABLED, REMOVED	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	1	The name of the Traffic Control policy data.
redirectInfo	RedirectInfo		O	1	Redirect Information

Table 2-90   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
routeToLocs	RouteToLocs		O		Route To Locs Information
tcId	string		O		Specifies the traffic control ID.
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 2-91   RedirectInfo

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
redirectAddressType	ENUM	IPV4_ADDR, IPV6_ADDR, URL, SIP_URI	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 2-92   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.

Table 2-93   RouteInfo

Field Name	Data Type	Constraints	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 2-94   UpPathChgEvent

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
dnaiChgType	ENUM	EARLY, EARLY_LATE, LATE	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	

DELETE - Delete Traffic Control Data

Table 2-95   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
trafficControlData Name	string		M	1	Traffic Control Data Name

Export and Import Traffic Control Data

Table 2-96   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of traffic control data service. For more information, see Table 2-90
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

Resource Name: Usage Monitoring Data

Table 2-97   Supported REST APIs - Usage Monitoring Data

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Usage Monitoring Data	/oc-cnpolicy-configuration/v1/ policydata/ pcfsm/ usagemonitoring data	POST	Create Usage Monitoring Data	See Table A-3

Table 2-97   (Cont.) Supported REST APIs - Usage Monitoring Data

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

Resource Standard Methods
GET, POST, and PUT - Get, create, and update Usage Monitoring Data

Table 2-98   Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O) / Conditional(C)aints	Cardinality	Description
description	string		O		The description of the UsageMonitoring Data.
exUsagePccRule Ids	string		O		Contains the PCC rule identifier(s) which corresponding service data flow(s) shall be excluded from PDU Session usage monitoring. It is only included in the UsageMonitoring Data instance for session level usage monitoring.
inactivityTime	string		O		Defines the period of time after which the time measurement shall stop, if no packets are received.
monitoringTime	string		O	1	Indicates the time at which the UP function is expected to reapply the next thresholds (e.g. nextVolThreshold).
name	string		M	1	The name of the UsageMonitoring Data.
nextTimeThresho ld	string		O		Indicates a time threshold after the Monitoring.
nextVolThreshold	string		O		Indicates a volume threshold after the Monitoring.

Table 2-98   (Cont.) Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
nextVolThreshold Downlink	string		O		Indicates a volume threshold in downlink after the Monitoring Time.
nextVolThreshold Uplink	string		O		Indicates a volume threshold in uplink after the Monitoring Time.
timeThreshold	string		O		Indicates a time threshold.
umId	string		M		Specifies the usage monitoring data Id.
volumeThreshold	string		O		Indicates a volume threshold.
volumeThreshold Downlink	string		O		Indicates a volume threshold in downlink.
volumeThreshold Uplink	string		O		Indicates a volume threshold in uplink.

DELETE - Delete Usage Monitoring Data

Table 2-99   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
usageMonitoring DataName	string		M	1	Usage Monitoring Data Name

Export and Import Usage Monitoring Data

Table 2-100   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of usage monitoring data service. For more information, see Table 2-98
key	string			Indicates the ID of Usage Monitoring Data
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Resource Name: UPSI

Table 2-101   Supported REST APIs -UPSI

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

Table 2-101   (Cont.) Supported REST APIs -UPSI

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/oc-cnpolicy-configuration/v1/policydata/pcfue/upsis/{upsiName}	DELETE	Delete UPSI	See Table A-4

Resource Standard Methods
GET, POST, and PUT - Get, create, and update UPSI

Table 2-102   Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
name	string		M	1	Name of the UPSI.
plmn	Plmn		M	1	PLMN Identity
upsc	integer($int32) Enter a value between 0 and 65535.		M	1	Defines UE Policy Section Code. Enter a number between 0 and 65,535.
urspRules	string		O		Defines URSP rules.

Table 2-103   Plmn

Field Name	Data Type	Constraints	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.

DELETE - Delete UPSI

Table 2-104   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
upsiName	string		M	1	UPSI Name

Export and Import UPSI Service

Table 2-105   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors:message	string			
errors:name	string			
exportData	array			Exported list of UPSI service. For more information, see Table 2-102
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Resource Name: URSP

Table 2-106   Supported REST APIs -URSP

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
URSP	/oc-cnpolicy-configuration/v1/ policydata/ pcfue/ursps	POST	Create URSP	See Table A-3
	/oc-cnpolicy-configuration/v1/ policydata/ pcfue/ursps/ export	GET	Export URSP	See Table A-1

Table 2-106   (Cont.) Supported REST APIs -URSP

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

Resource Standard Methods
GET, POST, and PUT - Get, create, and update URSP

Table 2-107   Data structures supported by the GET , POST and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/Optional(O)/Conditional(C)aints	Cardinality	Description
name	string		M	1	Name of the URSP rule.
precedence	integer($int32) Enter a value between 0 and 255.		M	1	Precedence value of the URSP rule.
routeSelectionDescriptorList	UrspRouteSelectionDescriptorList		O		List of URSP routes.
trafficDescriptors	TrafficDescriptorIE		O		List of traffic descriptors.

Table 2-108   UrspRouteSelectionDescriptorList

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
routePrecedence	integer($int32)		M	
routeSelectionDe scriptorCompone nts	RouteSelectionD escriptorCompon entIE		M	

Table 2-109   UrspRouteSelectionDescriptorList

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
routePrecedence	integer($int32)		O	
routeSelectionDe scriptorCompone nts	RouteSelectionD escriptorCompon entIE		O	

Table 2-110   RouteSelectionDescriptorComponentIE

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
routeSelectionDe scriptorType	ENUM		O	
value	RouteSelectionD escriptorCompon ent		O	

Table 2-111   TrafficDescriptorIE

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
trafficDescriptorT ype	ENUM	SSC_MODE, SNSSAI, DNN, PDU_SESSION_ TYPE, PREFERRED_A CCESS_TYPE, NON_SEAMLES S_NON_3GPP_ OFFLOAD_INDI CATION	O	
value	RouteSelectionD escriptorCompon ent		O	

Table 2-112   RouteSelectionDescriptorComponentIE

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
routeSelectionDescriptorType	ENUM	MATCH_ALL, OS_ID_OS_APP_ID, IPV4_REMOTE_ADDRESS, IPV6_REMOTE_ADDRESS, PROTOCOL_IDENTIFIER, SINGLE_REMOTE_PORT, REMOTE_PORT_RANGE, SECURITY_PARAMETER_INDEX, TYPE_OF_SERVICE_CLASS, FLOW_LABEL, DESTINATION_MAC_ADDRESS, T_802_1Q_C_TAG_VID, T_802_1Q_S_TAG_VID, ETHERTYPE, DNN, CONNECTION_CAPABILITIES, DESTINATION_FQDN, OS_APP_ID, T_802_1Q_C_TAG_PCP_DEI, T_802_1Q_S_TAG_PCP_DEI	O	
value	TrafficDescriptor Component		O	

DELETE - Delete URSP

Table 2-113   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
urspName	string		M	1	URSP Name

Export and Import URSP

Table 2-114   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of URSP service. For more information, see Table 2-107
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

Resource Name: Policy Management

Table 2-115   Supported REST APIs - Policy Management

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

Table 2-115   (Cont.) Supported REST APIs - Policy Management

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

Resource Standard Methods
POST, GET - Create, Import, and Export policy projects

Table 2-116   Data structures supported by the POST, GET Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
description	string	O	1	Specifies the description of a policy project.
name	String	O	1	Specifies the name of a policy project.
policy	array	O	1	
serviceType	String	O	1	Specifies the supported service type.

DELETE - delete policy project

Table 2-117   Data structures supported by the DELETE Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
policyProjectName	string	M	1	Policy Project Name

Resource Name: Audit Service

Table 2-118   Supported REST APIs - Audit Service

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Audit Service	/oc-cnpolicy-configuration/v1/services/audit	GET	Get Audit Service	See Table A-1
	/oc-cnpolicy-configuration/v1/services/audit	PUT	Update Audit Service	See Table A-2

Resource Standard Methods
GET and PUT - Get and update Audit Service Configuration

Table 2-119   Data structures supported by the GET and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
auditEnabled	boolean				
auditRate	integer				
logLevel	String	DEBUG, INFO, WARN, ERROR			Indicates the log level of PCF Session Management (SM) service.

Resource Name: Access and Mobility Service

Table 2-120   Supported REST APIs - Access and Mobility Service

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Access and Mobility Service	/oc-cnpolicy-configuration/v1/services/pcfam	GET	Get Access and Mobility Service	See Table A-1
	/oc-cnpolicy-configuration/v1/services/pcfam	PUT	Update Access and Mobility Service	See Table A-2
	/oc-cnpolicy-configuration/v1/services/pcfam/export	GET	Export Access and Mobility Management Service	See Table A-1

Table 2-120   (Cont.) Supported REST APIs - Access and Mobility Service

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/oc-cnpolicy-configuration/v1/services/pcfam/import	POST	Import Access and Mobility Service	See Table A-3

Resource Standard Methods
GET and PUT - Get and update Access and Mobility Service

Table 2-121   Data structures supported by the GET and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
app	AppConfiguration		O		
system	AMServiceSystemConfiguration		O		

Table 2-122   AppConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
defaultRfsp	string		O	RFSP (Rat Frequency Selection Priority)
defaultServAreaResCfgId	string		O	SAR (Service Area Restriction)
defaultTriggers	ENUM	LOC_CH, PRA_CH, SERV_AREA_CH, RFSP_CH, UE_POLICY	O	

Table 2-123   AMServiceSystemConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enableHttp2Client	boolean		O	Enables http2 client. **Default Value**: TRUE

Table 2-123   (Cont.) AMServiceSystemConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
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_UNKNO WN** returns, if this is enabled and user not found in UDR. **Default Value**: FALSE
logList	AMServiceSyste mConfigurationL ogList		O	
rootLogLevel	string, ENUM	TRACE, DEBUG, INFO, WARN, ERROR, ALWAYS	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

Table 2-124   AMServiceSystemConfigurationLogList

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
level	ENUM	TRACE, DEBUG, INFO, WARN, ERROR, ALWAYS	O	

Table 2-124   (Cont.) AMServiceSystemConfigurationLogList

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

Export and Import Access and Mobility Service

Table 2-125   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	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 Table 2-121
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Resource Name: Policy Authorization Service

Table 2-126   Supported REST APIs - Policy Authorization Service

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Policy Authorization Service	/oc-cnpolicy-configuration/v1/services/pcfpa	GET	Get Policy Authorization Service	See Table A-1
	/oc-cnpolicy-configuration/v1/services/pcfpa	PUT	Update Policy Authorization Service	See Table A-2
	/oc-cnpolicy-configuration/v1/services/pcfpa/export	GET	Export All Policy Authorization Service	See Table A-1

Table 2-126   (Cont.) Supported REST APIs - Policy Authorization Service

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/oc-cnpolicy-configuration/v1/services/pcfpa/import	POST	Import Policy Authorization Service	See Table A-3

Resource Standard Methods
GET and PUT - Get and update Policy Authorization Service

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

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
imsEmergencySession	IMSEmergencySessionPAServiceConfiguration		O		
system	PAServiceSystemConfiguration		O		

Table 2-128   IMSEmergencySessionPAServiceConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
emergencyServiceURNs	string Any number of values are permitted for Emergency Service URNs		O	

Table 2-128   (Cont.) IMSEmergencySessionPAServiceConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
reservationPriorit yTypes	ENUM	PRIO_1, PRIO_2, PRIO_3, PRIO_4, PRIO_5, PRIO_6, PRIO_7, PRIO_8, PRIO_9, PRIO_10, PRIO_11, PRIO_12, PRIO_13, PRIO_14, PRIO_15, PRIO_16	O	

Table 2-129   PAServiceSystemConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
afDirectReply	boolean		O	
afSubsNotifySeg ment	string example: termination		O	
afTerminateUriSe gment	string example: termination		O	
overrideSupporte dFeatures	string		O	

Export and Import Policy Authorization Service

Table 2-130   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of policy authorization service. For more information, see Table 2-127

Table 2-130 (Cont.) Data structures supported by Export and Import Response Body

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

Resource Name: Session Management Service

Table 2-131 Supported REST APIs - Session Management Service

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

Resource Standard Methods
GET and PUT - Get and update Session Management Service

Table 2-132 Data structures supported by the GET and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
imsEmergencySession	BindingConfiguration				
charging	ChargingConfiguration				

Table 2-132   (Cont.) Data structures supported by the GET and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
imsEmergencySession	IMSEmergencySessionConfiguration				
policy	Policy				
policyControlRequestTrigger	PolicyControlRequestTrigger				
qos	QOSConfiguration				
rule	RuleConfiguration				
system	SystemConfiguration				
traffic	TrafficControlConfiguration				
user	UserConfiguration				
Audit	AuditConfiguration				

Table 2-133   BindingConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
bindingOperationEnabled	boolean		O	This determines if binding operation (register and deregister) to the BSF is enabled. **Default Value**: TRUE
useHttp2	boolean		O	Determines if using http/2 to communicate with BSF. Otherwise use http/1.1. **Default Value**: TRUE

Table 2-133   (Cont.) BindingConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
useLocalConfigur edBsfAlways	boolean		O	Whether to use local configured BSF without Always discovering. **Default Value**: FALSE
useLocalConfigur edBsfWhenNotDi scovered	boolean		O	Whether to use local configured (if having) BSF when not discovered or discover failed.**Default Value**: FALSE

Table 2-134   ChargingConfiguration

Field Name	Data Type	Constraints	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	
primaryChfAddre ss	string		O	Specifies the primary CHF address.
secondaryChfAd dress	string		O	Specifies the secondary CHF address.

Table 2-135   IMSEmergencySessionConfiguration

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

Table 2-136   Policy

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
evaluateEnabled	boolean		O	This determines if policy evaluate is enabled. **Default Value**: TRUE

Table 2-137   PolicyControlRequestTrigger

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
defaultPolicyControlRequestTriggers	string, ENUM	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	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.

Table 2-138   QOSConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
defaultQos5qi	string example: 9		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	NOT_PREEMPT, MAY_PREEMPT	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

Table 2-138   (Cont.) QOSConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
defaultQosArpPreemptVuln	ENUM	PREEMPTABLE, NOT_PREEMPTABLE	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
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 2-139　RuleConfiguration

Field Name	Data Type	Constraints	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

Table 2-139   (Cont.) RuleConfiguration

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

Table 2-139   (Cont.) RuleConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
defaultPccRuleArpPreemptCap	ENUM	NOT_PREEMPT, MAY_PREEMPT	O	This is the ARP PreemptionCapability of qos of default PCC rule. • NOT_PREEMPT • MAY_PREEMPT **Default Value**: NOT_PREEMPT
defaultPccRuleArpPreemptVuln	ENUM	PREEMPTABLE, NOT_PREEMPTABLE	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

Table 2-139   (Cont.) RuleConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)ai nts	Description
installDefaultPcc Rule	ENUM	ALWAYS, IF_NO_PROVISI ONED_RULE, IF_NO_RULE, NEVER	O	This determine whether and how to install default pcc rule for a PDU session • ALWAYS • IF_NO_PRO VISIONED_ RULE: Only if no other provisioned rule is configured • IF_NO_RUL E: 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_

Table 2-139   (Cont.) RuleConfiguration

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

Table 2-140   SystemConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Description
apiRoot	string		O	
componentTracingEnabled	boolean		O	Determines if component tracing is enabled. Component tracing is used to evaluate system process latency in detail level. **Default Value**:FALSE

Table 2-140　(Cont.) SystemConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)ai nts	Description
logLevel	Sting, ENUM	DEBUG, INFO, WARN, ERROR	O	Indicates the log level of PCF Session Management (SM) service. **Default Value**: WARN
metricsEnabled	boolean		O	This determines if system metrics is enabled. This will take priority on global metrics config. **Default Value**: TRUE
overrideSupporte dFeatures	string, ENUM	INDICATION_OF _LOSS_OF_BEA RER, INDICATION_OF _RELEASE_OF_ BEARER, INDICATION_OF _FAILED_RESO URCES_ALLOC ATION	O	
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

Table 2-140   (Cont.) SystemConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)ai nts	Description
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_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.pcfn
process400as20 0	boolean		O	
smfTerminateUri Segment	string example: terminate		O	
smfUpdateUriSe gment	string example: update		O	
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

Table 2-141   TrafficControlConfiguration

Field Name	Data Type	Constraints	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 2-142   UserConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enableChfQueryAll	boolean		O	
ignoreSubsNotificationCheck	boolean		O	
queryUser	boolean		O	Determines if user query from UDR is enabled. **Default Value**: TRUE
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
queryUserOnUpdate	boolean		O	Determines if user query from UDR on update is enabled. **Default Value**: FALSE

Table 2-142   (Cont.) UserConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
subsToNotifyEnabled	boolean		O	Determines if subscribe to nofity about subscriber data change 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

Table 2-143   AuditConfiguration

Field Name	Data Type	Constraints	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	integer		M	enter a range in minutes from [1-1440]
maxTtl	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** Enter a range in minutes from [10-20160]

Table 2-143   (Cont.) AuditConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
notificationRate	integer		M	Defines the number of stale records which Audit service will notify to Session Management (SM) service in one second. Default Value: **50** Enter a range in seconds from [20-700]
ttl	integer		M	enter a range in minutes from [5-10080]

Export and Import Session Management Service

Table 2-144   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors:message	string			
errors:name	string			
exportData	array			Exported list of session management service. For more information, see Table 2-132
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

Resource Name: UE Policy

Table 2-145   Supported REST APIs - UE Policy Service

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
UE Policy Service	/oc-cnpolicy-configuration/v1/services/pcfue	GET	Get UE Policy Service	See Table A-1
	/oc-cnpolicy-configuration/v1/services/pcfue	PUT	Update UE Policy Service	See Table A-2
	/oc-cnpolicy-configuration/v1/services/pcfue/export	GET	Export All UE Policy Service	See Table A-1
	/oc-cnpolicy-configuration/v1/services/pcfue/import	POST	Import UE Policy Service	See Table A-3

Resource Standard Methods
GET and PUT - Get and update UE Policy Service

Table 2-146   Data structures supported by the GET and PUT Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)aints	Cardinality	Description
amf	AMFConfiguration		O		
system	UEPolicyServiceSystemConfiguration		O		
user	UserUEPolicyServiceConfiguration		O		

Table 2-147   AMFConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
enableHttp11Client	boolean		O	
naSMsgTransferMaxSize	integer ($int32)		O	

Table 2-148   UEPolicyServiceSystemConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
loglevel	String, ENUM	DEBUG, INFO, WARN, ERROR	O	Indicates the log level of PCF Session Management (SM) service. Default Value: **WARN**
notifUriRoot	string		O	

Table 2-149   UserUEPolicyServiceConfiguration

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

Export and Import UE Policy

Table 2-150   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of UE policy service. For more information, see Table 2-146
sourceVersion	string			System version of product from which data is exported

Table 2-150 (Cont.) Data structures supported by Export and Import Response Body

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

Resource Name: User Connector

Table 2-151 Supported REST APIs - User Connector

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

Resource Standard Methods
GET and PUT - Get and update User Connector

Table 2-152 Data structures supported by the GET and PUT Response Body

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

Table 2-153   CommonConfiguration

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

Table 2-154   DBConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
indexing	Indexing		O	
keysPrecedence	ENUM	MSISDN, IMSI, NAI, EXTID	O	
userIndexKeys	ENUM	msisdn, imsi, nai, extid	O	

Table 2-155   Indexing

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

Table 2-156   UserSystemConfiguration

Field Name	Data Type	Constraints	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

Table 2-156   (Cont.) UserSystemConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
logLevel	string, ENUM	DEBUG, INFO, WARN, ERROR	O	Indicates the log level of PCF Session Management (SM) service. Default Value: **WARN**

Table 2-157   UDRConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
amDataUri	string example: /policy-data/ues/{ueId}/am-data		O	
baseUri	string example: /nudr-dr/v1		O	
enableDiscoveryOnDemand	boolean		O	
enableHttp11	boolean		O	
explodeSnssai	boolean		O	
requestTimeout	string example: 1000		O	
smDataUri	string example: /policy-data/ues/{ueId}/sm-data		O	
smDataSubscriptionResource	string, ENUM	'1', '2'		
discoverUdrWithPolicyAsSupportedDataSet	boolean			
subsToNotifySubsIdUri	string example: /policy-data/subs-to-notify/{subsId}		O	
subsToNotifyUri	string example: /policy-data/subs-to-notify		O	
supportedFeatures	string example: f		O	

Table 2-157 (Cont.) UDRConfiguration

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
uePolicySetUri	string example: /policy-data/ues/{ueId}/ue-policy-set		O	
usageMonUri	string example: /policy-data/ues/{ueId}/sm-data/{usageMonId}		O	

Export and Import User Service

Table 2-158 Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of user service. For more information, see Table 2-152
sourceVersion	string			System version of product from which data is exported
topic	string			Topic of each managed object

3

Cloud Native Policy Charging and Rules Function (CNPCRF) REST Specifications

This section provides information about REST specifications used in CNPCRF.

Resource Name: PCRF Public Log

Table 3-1   Supported REST APIs - PCRF Public Log

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

Resource Standard Methods
GET and PUT - Get and Update Pcrf Log

Table 3-2   Data structures supported by the GET and PUT Response Body

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

Table 3-3   packageLogLevel

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

Export and Import Pcrf Log

Table 3-4   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
exportData	array			Exported list of Pcrf Log. For more information, see Table 3-2
sourceVersion	string			System version of the product from which data is exported
topic	string			Topic of each managed object

Resource Name: Charging Server

Table 3-5   Supported REST APIs - Charging Server

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Charging Server	/ocpm/pcrf/v1/ configuration/ policy/ chargingServer	POST	Create Charging Server	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ chargingServer/ export	GET	Export Charging Server	See Table A-1

Table 3-5   (Cont.) Supported REST APIs - Charging Server

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

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Charging Server

Table 3-6   Data structures supported by the POST, GET, and PUT Response Body

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

Export and Import Charging Server

Table 3-7   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors	array			
errors:message	string			
errors:name	string			
exportData	array	M		Exported list of charging server. For more information, see Table 3-6
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

DELETE - delete charging server

Table 3-8   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
chargingServerName	string		M	1	Charging Server Name

Resource Name: Custom AVP

Table 3-9   Supported REST APIs - Custom AVP

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Custom AVP	/ocpm/pcrf/v1/ configuration/ policy/ customAVP	POST	Create Custom AVP	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ customAVP/ export	GET	Export Custom AVP	See Table A-1

Table 3-9   (Cont.) Supported REST APIs - Custom AVP

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/ocpm/pcrf/v1/ configuration/ policy/ customAVP/ import	POST	Import Custom AVP	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ customAVP/ {customAVPNa me}	GET	Get Custom AVP	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ customAVP/ {customAVPNa me}	PUT	Update Custom AVP	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/ customAVP/ {customAVPNa me}	DELETE	Delete Custom AVP	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Custom AVP Name

Table 3-10   Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
vendorSpecifi cFlag	boolean			
avpCode	string			

Table 3-10   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
avpType	string			• enumerated • float32 • float64 • grouped • id • int32 • int64 • ipFilterRule • octetString • time • uint32 • uint64 • uri • utf8String
description	string			
mandatoryFla g	boolean			
mayEncryptFl ag	boolean			
name	string	M		
protectFlag	boolean			
rootAvp	string			
vendorId	string	M		10415 5535 21274 9 5263 3076 255 2636 4874
vendorSpecifi cFlag	boolean			

Export and Import Custom AVP

Table 3-11   Data structures supported by Export and Import Response Body

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

Table 3-11   (Cont.) Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
errors	array			
errors:message	string			
errors:name	string			
exportData	array	M		Exported list of custom avp. For more information, see Table 3-10
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

DELETE - delete custom AVP

Table 3-12   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
customAVPName	string		M	1	Custom AVP Name

Resource Name: Custom Vendor

Table 3-13   Supported REST APIs - Custom Vendor

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Custom Vendor	/ocpm/pcrf/v1/ configuration/ policy/ customVendor	POST	Create Custom Vendor	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ customVendor/ export	GET	Export Custom Vendor	See Table A-1

Table 3-13   (Cont.) Supported REST APIs - Custom Vendor

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/ocpm/pcrf/v1/ configuration/ policy/ customVendor/ import	POST	Import Custom Vendor	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ customVendor/ {customVendorN ame}	GET	Get Custom Vendor	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ customVendor/ {customVendorN ame}	PUT	Update Custom Vendor	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/ customVendor/ {customVendorN ame}	DELETE	Delete Custom Vendor	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Custom Vendor

Table 3-14   Data structures supported by the POST, GET, and PUT Response Body

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

Export and Import Custom Vendor

Table 3-15   Data structures supported by Export and Import Response Body

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

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Table 3-15   (Cont.) Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
errors:message	string			
errors:name	string			
exportData	array	M		Exported list of custom avp. For more information, see Table 3-14
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

DELETE - delete custom vendor

Table 3-16   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
customVendor Name	string		M	1	Custom Vendor Name

Resource Name: Media Profile

Table 3-17   Supported REST APIs - Media Profile

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Media Profile	/ocpm/pcrf/v1/ configuration/ policy/ mediaProfile	POST	Create Media Profile	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ mediaProfile/ export	GET	Export Media Profile	See Table A-1

Table 3-17   (Cont.) Supported REST APIs - Media Profile

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/ocpm/pcrf/v1/ configuration/ policy/ mediaProfile/ import	POST	Import Media Profile	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ mediaProfile/ {mediaProfileNa me}	GET	Get Media Profile	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ mediaProfile/ {mediaProfileNa me}	PUT	Update Media Profile	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/ mediaProfile/ {mediaProfileNa me}	DELETE	Delete Media Profile	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Media Profile

Table 3-18   Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
codecName	string	M		
description	string			
frameSizeInB ytes	integer	M		enter a range in 0 to 65535
frameSizeInM S	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

Table 3-18   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
sampleRate	integer	M		enter a range in 0 to 65535
transportType	string	M		RTP/AVP RTP/SAVP RTP/AVPF
useDefaultPTime	boolean	M		

Export and Import Media Profile

Table 3-19   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors	array			
errors:message	string			
errors:name	string			
exportData	array	M		Exported list of media profile. For more information, see Table 3-18
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

DELETE - delete media profile

Table 3-20   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
mediaProfileName	string		M	1	Media Profile Name

Resource Name: Network for GGSN

Table 3-21   Supported REST APIs - Network for GGSN

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

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Network GGSN

Table 3-22   Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
backupHostName		O		
capabilities	array	O		
capacity	string	O		

Table 3-22   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
description	string	O		
diameterRealm	string	O		
hostName	string	O		
ipDomainId	string	O		
name	string	M		
neDiameterId	array	O		

Export and Import Network GGSN

Table 3-23   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	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 3-22
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

DELETE - delete Network GGSN

Table 3-24   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
networkGGSNName	string		M	1	Network GGSN Name

Resource Name: Network for PGW

Table 3-25   Supported REST APIs - Network for PGW

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Network PGW	/ocpm/pcrf/v1/ configuration/ policy/ networkPGW	POST	Create Network PGW	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ networkPGW/ export	GET	Export Network PGW	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ networkPGW/ import	POST	Import Network PGW	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ networkPGW/ {networkPGWN ame}	GET	Get Network PGW	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ networkPGW/ {networkPGWN ame}	PUT	Update Network PGW	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/ networkPGW/ {networkPGWN ame}	DELETE	Delete Network PGW	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Network PGW

Table 3-26   Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
backupHostN ame		O		
capabilities	array	O		
capacity	string	O		

Table 3-26   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
description	string	O		
diameterRealm	string	O		
fqdn	string	O		
hostName	string	O		
ipDomainId	string	O		
name	string	M		
neDiameterId	array	O		

Export and Import Network PGW

Table 3-27   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	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 3-26
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

DELETE - delete Network PGW

Table 3-28   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
networkPGW Name	string		M	1	Network PGW Name

Resource Name: Pra

Table 3-29   Supported REST APIs - Pra

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Pra	/ocpm/pcrf/v1/ configuration/ policy/pra	POST	Create Pra	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/pra/export	GET	Export PCRF Pra	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/pra/import	POST	Import PCRF Pra	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/pra/ {praPcrfName}	GET	Get Pra	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/pra/ {praPcrfName}	PUT	Update Pra	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/pra/ {praPcrfName}	DELETE	Delete Pra	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Pra

Table 3-30   Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
descrption	string	O		
id	string	M		
name	string	M		
praItems	array	O		

Table 3-30   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

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

Table 3-31   praItems

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

Table 3-32   cgi

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

Table 3-33   ecgi

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

Table 3-34   home_enodeb

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

Table 3-35   macro_enodeb

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

Table 3-36   rai

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

Table 3-37   sai

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

Table 3-38   tai

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

Export and Import Pra

Table 3-39   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors	array			
errors:message	string			
errors:name	string			
exportData	array	M		Exported list of Pra. For more information, see Table 3-30
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

DELETE - delete Pra Pcrf

Table 3-40   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
praPcrfName	string		M	1	Pra Pcrf Name

Resource Name: Predefined Adc Rule

Table 3-41   Supported REST APIs - Predefined Adc Rule

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Predefined Adc Rule	/ocpm/pcrf/v1/ configuration/ policy/ predefinedAdcR ule	POST	Create Predefined Adc Rule	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedAdcR ule/export	GET	Export Predefined Adc Rule	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedAdcR ule/import	POST	Import Predefined Adc Rule	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedAdcR ule/ {predefinedAdc RuleName}	GET	Get Predefined Adc Rule	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedAdcR ule/ {predefinedAdc RuleName}	PUT	Update Predefined Adc Rule	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedAdcR ule/ {predefinedAdc RuleName}	DELETE	Delete Predefined Adc Rule	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Predefined Adc Rule

Table 3-42   Data structures supported by the POST, GET, and PUT Response Body

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

Table 3-42   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

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

Export and Import Predefined Adc Rule

Table 3-43   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors	array			
errors:message	string			
errors:name	string			
exportData	array	M		Exported list of predefined Adc Rule. For more information, see Table 3-42
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

DELETE - delete Predefined Adc Rule

Table 3-44   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
predefinedAd cRuleName	string		M	1	Predefined Adc Rule Name

Resource Name: Predefined Adc Rule Base

Table 3-45   Supported REST APIs - Predefined Adc Rule Base

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Predefined Adc Rule Base	/ocpm/pcrf/v1/ configuration/ policy/ predefinedAdcR uleBase	POST	Create Predefined Adc Rule Base	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedAdcR uleBase/export	GET	Export Predefined Adc Rule Base	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedAdcR uleBase/import	POST	Import Predefined Adc Rule Base	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedAdcR uleBase/ {predefinedAdc RuleBaseName}	GET	Get Predefined Adc Rule Base	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedAdcR uleBase/ {predefinedAdc RuleBaseName}	PUT	Update Predefined Adc Rule Base	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedAdcR uleBase/ {predefinedAdc RuleBaseName}	DELETE	Delete Predefined Adc Rule Base	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Predefined Adc Rule Base

Table 3-46   Data structures supported by the POST, GET, and PUT Response Body

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

Table 3-46   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

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

Export and Import Predefined Adc Rule Base

Table 3-47   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors	array			
errors:message	string			
errors:name	string			
exportData	array	M		Exported list of predefined Adc Base Rule. For more information, see Table 3-46
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

DELETE - delete Predefined Adc Rule Base

Table 3-48   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
predefinedAdcRuleBaseName	string		M	1	Predefined Adc Rule Base Name

Resource Name: Predefined Pcc Rule

Table 3-49   Supported REST APIs - Predefined Pcc Rule

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Predefined Pcc Rule	/ocpm/pcrf/v1/ configuration/ policy/ predefinedPccR ule	POST	Create Predefined Pcc Rule	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedPccR ule/export	GET	Export Predefined Pcc Rule	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedPccR ule/import	POST	Import Predefined Pcc Rule	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedPccR ule/ {predefinedPccR uleName}	GET	Get Predefined Pcc Rule	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedPccR ule/ {predefinedPccR uleName}	PUT	Update Predefined Pcc Rule	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedPccR ule/ {predefinedPccR uleName}	DELETE	Delete Predefined Pcc Rule	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Predefined Pcc Rule

Table 3-50   Data structures supported by the POST, GET, and PUT Response Body

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

Table 3-50   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

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

Export and Import Predefined Pcc Rule

Table 3-51   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors	array			
errors:message	string			
errors:name	string			
exportData	array	M		Exported list of predefined Pcc Rule. For more information, see Table 3-50
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

DELETE - delete Predefined Pcc Rule

Table 3-52   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
predefinedPcc RuleName	string		M	1	Predefined Pcc Rule Name

Resource Name: Predefined Pcc Rule Base

Table 3-53   Supported REST APIs - Predefined Pcc Rule Base

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Predefined Pcc Rule Base	/ocpm/pcrf/v1/ configuration/ policy/ predefinedPccR uleBase	POST	Create Predefined Pcc Rule Base	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedPccR uleBase/export	GET	Export Predefined Pcc Rule Base	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedPccR uleBase/import	POST	Import Predefined Pcc Rule Base	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedPccR uleBase/ {predefinedPccR uleBaseName}	GET	Get Predefined Pcc Rule Base	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedPccR uleBase/ {predefinedPccR uleBaseName}	PUT	Update Predefined Pcc Rule Base	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/ predefinedPccR uleBase/ {predefinedPccR uleBaseName}	DELETE	Delete Predefined Pcc Rule Base	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Predefined Pcc Rule Base

Table 3-54   Data structures supported by the POST, GET, and PUT Response Body

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

Export and Import Predefined Pcc Rule Base

Table 3-55   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors	array			
errors:message	string			
errors:name	string			
exportData	array	M		Exported list of predefined Pcc Rule Base. For more information, see Table 3-54
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

DELETE - delete Predefined Pcc Rule Base

Table 3-56   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
predefinedPcc RuleBaseNa me	string		M	1	Predefined Pcc Rule Base Name

Resource Name: Retry Profile for ADC

Table 3-57   Supported REST APIs - Retry Profile for ADC

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
ADC Retry Profile	/ocpm/pcrf/v1/ configuration/ policy/ adcRetryProfile	POST	Create ADC Retry Profile	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ adcRetryProfile/ export	GET	Export ADC Retry Profile	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ adcRetryProfile/ import	POST	Import ADC Retry Profile	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ adcRetryProfile/ {adcRetryProfile Name}	GET	Get ADC Retry Profile	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ adcRetryProfile/ {adcRetryProfile Name}	PUT	Update ADC Retry Profile	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/ adcRetryProfile/ {adcRetryProfile Name}	DELETE	Delete ADC Retry Profile	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Retry Profile for ADC

Table 3-58   Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	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		

Table 3-58   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	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

Table 3-58   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
				• CM_USER_UNKN OWN • CM_RATING_FAIL ED

Export and Import Retry Profile for ADC

Table 3-59   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors	array			
errors:message	string			
errors:name	string			
exportData	array	M		Exported list of ADC retry profile. For more information, see Table 3-58
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

DELETE - delete Retry Profile for ADC

Table 3-60   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
adcRetryProfil eName	string		M	1	ADC Retry Profile Name

Resource Name: Retry Profile for PCC

Table 3-61   Supported REST APIs - Retry Profile for PCC

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
PCC Retry Profile	/ocpm/pcrf/v1/ configuration/ policy/ pccRetryProfile	POST	Create PCC Retry Profile	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ pccRetryProfile/ export	GET	Export PCC Retry Profile	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ pccRetryProfile/ import	POST	Import PCC Retry Profile	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ pccRetryProfile/ {pccRetryProfile Name}	GET	Get PCC Retry Profile	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ pccRetryProfile/ {pccRetryProfile Name}	PUT	Update PCC Retry Profile	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/ pccRetryProfile/ {pccRetryProfile Name}	DELETE	Delete PCC Retry Profile	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Retry Profile for PCC

Table 3-62   Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
backOffInterval	integer	M		Enter a value between 1 and 86400
description	string	O		
id	string	O		

Table 3-62   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

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

Table 3-62   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	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

Table 3-62   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
				• CM_USER_UNKN OWN • CM_RATING_FAIL ED

Export and Import Retry Profile for PCC

Table 3-63   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	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 3-62
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

DELETE - delete Retry Profile for PCC

Table 3-64   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
pccRetryProfil eName	string		M	1	PCC Retry Profile Name

Resource Name: Serving Gateway

Table 3-65   Supported REST APIs - Serving Gateway

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Serving Gateway	/ocpm/pcrf/v1/ configuration/ policy/ servingGateway	POST	Create Serving Gateway	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ servingGateway/ export	GET	Export Serving Gateway	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ servingGateway/ import	POST	Import Serving Gateway	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ servingGateway/ {servingGatewa yName}	GET	Get Serving Gateway	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ servingGateway/ {servingGatewa yName}	PUT	Update Serving Gateway	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/ servingGateway/ {servingGatewa yName}	DELETE	Delete Serving Gateway	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Serving Gateway

Table 3-66   Data structures supported by the POST, GET, and PUT Response Body

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

Table 3-66   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
sgwIpAddress	array			

Export and Import Serving Gateway

Table 3-67   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	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 3-66
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

DELETE - delete Serving Gateway

Table 3-68   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
servingGatewayName	string		M	1	Serving Gateway Name

Resource Name: Time Period

Table 3-69   Supported REST APIs - Time Period

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

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Time Period

Table 3-70   Data structures supported by the POST, GET, and PUT Response Body

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

Table 3-71   timeSlot

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
daysOfMonth	string	O	1	
daysOfWeek	string	O	1	
endTime	string	O	1	
monthsOfYear	string	O	1	
startTime	string	O	1	
years	string	O	1	

Export and Import Time Period

Table 3-72   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
date	string			Current timestamp
errors	array			
errors:message	string			
errors:name	string			
exportData	array	M		Exported list of time period. For more information, see Table 3-70
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

DELETE - delete Time Period

Table 3-73   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
timePeriodName	string		M	1	Time Period Name

Resource Name: Traffic for ADC Rule

Table 3-74   Supported REST APIs - Traffic for ADC Rule

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Traffic Adc Rule	/ocpm/pcrf/v1/ configuration/ policy/ trafficAdcRule	POST	Create Traffic Adc Rule	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ trafficAdcRule/ export	GET	Export Traffic Adc Rule	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ trafficAdcRule/ import	POST	Import Traffic Adc Rule	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ trafficAdcRule/ {trafficAdcRuleN ame}	GET	Get Traffic Adc Rule	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ trafficAdcRule/ {trafficAdcRuleN ame}	PUT	Update Traffic Adc Rule	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/ trafficAdcRule/ {trafficAdcRuleN ame}	DELETE	Delete Traffic Adc Rule	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Traffic ADC Rule

Table 3-75   Data structures supported by the POST, GET, and PUT Response Body

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

Table 3-75   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

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

Table 3-75   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
param.diameter.adcRule.tdfMuteNotification	string	O		Allowed values: • 0
param.diameter.adcRule.tdfRedirectAddressType	string	O		Allowed values: • 0 • 1 • 2 • 3
param.diameter.adcRule.tdfRedirectServerAddress	string	O		
param.diameter.adcRule.tdfRedirectSupport	string	O		Allowed values: • 0 • 1

Export and Import Traffic ADC Rule

Table 3-76   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	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 Table 3-75
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

DELETE - delete Traffic ADC Rule

Table 3-77   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
trafficAdcRule Name	string		M	1	Traffic ADC Rule Name

Resource Name: Traffic for Diameter QoS

Table 3-78   Supported REST APIs - Traffic for Diameter QoS

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Traffic Diameter QoS	/ocpm/pcrf/v1/ configuration/ policy/ trafficDiameterQ oS	POST	Create Traffic Diameter QoS	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ trafficDiameterQ oS/export	GET	Export Traffic Diameter QoS	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ trafficDiameterQ oS/import	POST	Import Traffic Diameter QoS	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ trafficDiameterQ oS/ {trafficDiameter QoSName}	GET	Get Traffic Diameter QoS	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ trafficDiameterQ oS/ {trafficDiameter QoSName}	PUT	Update Traffic Diameter QoS	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/ trafficDiameterQ oS/ {trafficDiameter QoSName}	DELETE	Delete Traffic Diameter QoS	See Table A-4

Resource Standard Methods

POST, GET, and PUT - Create, Get, and Update Traffic Diameter QoS

Table 3-79   Data structures supported by the POST, GET, and PUT Response Body

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

Export and Import Traffic Diameter QoS

Table 3-80   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	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 3-79
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

DELETE - delete Traffic Diameter QoS

Table 3-81   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
trafficDiameterQoSName	string		M	1	Traffic Diameter QoS Name

Resource Name: Traffic for PCC Profile

Table 3-82   Supported REST APIs - Traffic for PCC Profile

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Traffic PCC Profile	/ocpm/pcrf/v1/ configuration/ policy/ trafficPccProfile	POST	Create Traffic PCC Profile	See Table A-3

Table 3-82   (Cont.) Supported REST APIs - Traffic for PCC Profile

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/ocpm/pcrf/v1/ configuration/ policy/ trafficPccProfile/ export	GET	Export Traffic PCC Profile	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ trafficPccProfile/ import	POST	Import Traffic PCC Profile	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ trafficPccProfile/ {trafficPccProfile Name}	GET	Get Traffic PCC Profile	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ trafficPccProfile/ {trafficPccProfile Name}	PUT	Update Traffic PCC Profile	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/ trafficPccProfile/ {trafficPccProfile Name}	DELETE	Delete Traffic PCC Profile	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Traffic for PCC Profile

Table 3-83   Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
description	string	O		
name	string	M		
param.diamet er.pccProfile. ARP.Preempt ionCapability	string	O		Allowed values • 0 • 1
param.diamet er.pccProfile. ARP.Preempt ionVulnerabili ty	string	O		Allowed values • 0 • 1

Table 3-83   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

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

Table 3-83   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

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

Table 3-83   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
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 3-84   param.diameter.pccProfile.FlowInformations

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

Export and Import Traffic for PCC Profile

Table 3-85   Data structures supported by Export and Import Response Body

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

Table 3-85   (Cont.) Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
exportData	array	M		Exported list of traffic Pcc Profile. For more information, see Table 3-83
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

DELETE - delete Traffic for PCC Profile

Table 3-86   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
trafficPccProfileName	string		M	1	Traffic PCC Profile Name

Resource Name: Traffic for PCC Rule

Table 3-87   Supported REST APIs - Traffic for PCC Rule

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
Traffic PCC Rule	/ocpm/pcrf/v1/ configuration/ policy/ trafficPccRule	POST	Create Traffic PCC Rule	See Table A-3
	/ocpm/pcrf/v1/ configuration/ policy/ trafficPccRule/ export	GET	Export Traffic PCC Rule	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ trafficPccRule/ import	POST	Import Traffic PCC Rule	See Table A-3

Table 3-87   (Cont.) Supported REST APIs - Traffic for PCC Rule

Resource Name	Resource URI	HTTP Method or Custom Operation	Description	Possible Result Code
	/ocpm/pcrf/v1/ configuration/ policy/ trafficPccRule/ {trafficPccRuleName}	GET	Get Traffic PCC Rule	See Table A-1
	/ocpm/pcrf/v1/ configuration/ policy/ trafficPccRule/ {trafficPccRuleName}	PUT	Update Traffic PCC Rule	See Table A-2
	/ocpm/pcrf/v1/ configuration/ policy/ trafficPccRule/ {trafficPccRuleName}	DELETE	Delete Traffic PCC Rule	See Table A-4

Resource Standard Methods
POST, GET, and PUT - Create, Get, and Update Traffic for PCC Rule

Table 3-88   Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	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		

Table 3-88   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
param.diameter.pccRule.FlowInformations	array	O		
param.diameter.pccRule.FlowStatus	string	O		Allowed values • 0 • 1 • 2 • 3
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		

Table 3-88   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

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

Table 3-88   (Cont.) Data structures supported by the POST, GET, and PUT Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
param.diameter.pccRule.tdf RedirectServ erAddress	string	O		
param.diameter.pccRule.tdf RedirectSupp ort	string	O		Allowed values • 0 • 1

Table 3-89   param.diameter.pccRule.FlowInformations

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

Export and Import Traffic for PCC Rule

Table 3-90   Data structures supported by Export and Import Response Body

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	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 3-88
key	string			Indicates the ID

Table 3-90   (Cont.) Data structures supported by Export and Import Response Body

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

DELETE - delete Traffic for PCC Rule

Table 3-91   Data structures supported by the DELETE Response Body

Field Name	Data Type	Constraints	Mandatory(M)/ Optional(O)/ Conditional(C)	Cardinality	Description
trafficPccRule Name	string		M	1	Traffic PCC Rule Name

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
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
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

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
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