



Cisco Cloud Native Broadband Router Operations Hub REST API Guide, Release 20.4

First Published: 2020-12-16

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Contents

Operations Hub Authentication API	1
Version: 1.0	1
Security	1
/loglevel	1
GET	1
PUT	2
/v1/token	2
POST	2
DELETE	3
/v1/token/fresh	3
POST	3
/v1/token/validation	4
POST	4
Models	4
auth.LogLevel	4
auth.TokenGenInfo	4
auth.TokenRefreshReqInfo	5
Operations Hub cnBR Management API	7
Version: 1.0	7
/loglevel	7
GET	7
PUT	7
/v1/cable-modems	8
GET	8
PUT	8
/v1/cable-modems/flap	9
GET	9
/v1/cable-modems/phy	9
GET	9
/v1/cable-modems/statistics	10
GET	10
/v1/cable-modems/{mac}	10

GET	10
/v1/cable-modems/{mac}/cpes	11
GET	11
DELETE	11
/v1/cable-modems/{mac}/dbc	12
GET	12
/v1/cable-modems/{mac}/debug	12
GET	12
/v1/cable-modems/{mac}/service-flows	13
GET	13
/v1/cmts	13
GET	13
POST	14
DELETE	14
/v1/cmts/mdcmsg	14
GET	14
/v1/cmts/refresh	15
POST	15
/v1/cmts/version	15
GET	15
/v1/cmts/{cmts-id}	15
GET	15
PUT	16
DELETE	16
/v1/cmts/{cmts-id}/configs	17
GET	17
/v1/cmts/{cmts-id}/health	17
POST	17
/v1/cmts/{cmts-id}/interfaces	18
GET	18
/v1/cmts/{cmts-id}/modems	18
GET	18
/v1/cmts/{cmts-id}/refresh	19
POST	19
/v1/cmts/{cmts-id}/version	19
GET	19
/v1/collector/file/{tid}	20
GET	20
DELETE	20
/v1/collector/info	21
PUT	21
/v1/collector/snapshot	21
/v1/opshub/version	21
GET	21
/v1/service-flows	22
GET	22

/v1/service-flows/{sf-id}	22
GET	22
Models	23
handler.CollectorInfo	23
handler.CollectorTypeInfo	23
model.CmSg	23
model.CmSgInfo	23
model.CmSgList	23
model.CmSgStatsInfo	23
model.CmStats	24
model.CmStatsItem	24
model.CmtsBasicInfo	24
model.CmtsDetailInfo	24
model.CmtsDetailInfoEntries	25
model.CmtsEntry	25
model.CmtsResponse	25
model.ComponentsObject	25
model.DsSg	25
model.FiberNode	26
model.IntfInfo	26
model.IntfInfoList	26
model.LogLevel	26
model.MACDomain	26
model.MdCmSg	26
model.ModemAction	27
model.ModemBasicInfo	27
model.NewCmtsCreds	27
model.NewCmtsInfo	27
model.Response	28
model.ResponseObject	28
model.ResponseRootObject	28
model.SCMInfo	28
model.ServiceFlowList	29
model.ServiceGroup	29
model.SfInfo	29
model.SfInfoVerb	29
model.SfPerModem	29
model.SfPerModemList	30
model.UsSg	30
Operations Hub cnBR Configuration API	31
Version: 1.0	31
/v1/cmts/config/{cmts-id}	31
GET	31
PUT	31
/v1/cmts/{cmts-id}/config/global	32

GET	32
PUT	32
/v1/cmts/{cmts-id}/config/service-groups/{service-group-id} . . .	33
GET	33
/v1/cmts/{cmts-id}/service-group-ids	33
GET	33
/v1/templates	34
GET	34
POST	34
/v1/templates/{template-name}	35
GET	35
PUT	35
DELETE	36
Models	36
model.CnBRConfig	36
model.CnbrGlobalConfig	36
model.CnbrSGConfig	37
model.ServiceGroupList	37
model.Template	37
models.BackoffCfg	37
models.BgpNeighbor	37
models.Bgpagent	38
models.Cin	38
models.Dhcp	38
models.DhcpRelayPolicy	39
models.DlmCfg	39
models.Dot1qvc	40
models.DsCfg	40
models.DsCfgs	40
models.DsResilCfg	41
models.DsgCfg	41
models.DsgCfr	41
models.DsgChan	41
models.DsgChanList	42
models.DsgClient	42
models.DsgClientList	42
models.DsgTg	42
models.DsgTimer	42
models.DsgTunnel	43
models.DsgVendorParam	43
models.GracefulRestart	43
models.IcpiCfg	43
models.IcpiPerCausePuntCfg	43
models.IcpiPerCausePuntCfgList	43
models.L2vpn	44
models.Layer3Cfg	44

models.MapAdvanceCfg	44
models.MapCtrlCfg	44
models.McastCfg	44
models.MdCfg	45
models.MdCfgs	45
models.MdDsgCfg	45
models.ModProfCfg	46
models.ModProfCfgEntries	46
models.ModProfCfgs	46
models.Mplsvc	46
models.Mplsvlansg	47
models.NetworkDelayCfg	47
models.OfdmDsCfg	47
models.OfdmDsCfgs	48
models.OfdmFreqExclBand	48
models.OfdmModProfCfg	48
models.OfdmModProfCfgs	48
models.OfdmProfAssigns	48
models.OfdmProfMgmtCfg	48
models.OfdmProfileType	49
models.OfdmaDataIuc	49
models.OfdmaDataIucOverWrite	49
models.OfdmaFreqPortBand	50
models.OfdmaUsCfg	50
models.OfdmaUsCfgs	51
models.OfdmaUsModProfCfg	51
models.OfdmaUsModProfCfgs	51
models.OverlayInfo	52
models.OverlayVlanInfo	52
models.OverlayVxlanInfo	53
models.Packetcable	54
models.PfgActive	54
models.PfgGroup	55
models.PfgGrpList	55
models.PfgRuleList	55
models.PreEqualizationExcludeCfg	55
models.PreEqualizationExcludeCfgs	56
models.PrivacyCfg	56
models.PrivacyKekTimeout	56
models.PrivacyTekTimeout	57
models.Profentries	57
models.Ptp	57
models.PtpPort	57
models.RCPChan	58
models.RCPModule	58
models.RCPModuleChanBlockRange	59

models.RangeSubcarrier	59
models.RateLimitCfg	59
models.RcpCfg	59
models.RcpCfgs	60
models.RfDsPort	60
models.RfFiberNode	60
models.RfUsPort	60
models.Rip	61
models.RngSgCfg	61
models.RpdCfg	61
models.RpdLocation	61
models.RpdMultiCoreCfg	62
models.RpdMultiCoreItem	62
models.RpdPtpCfg	62
models.RpdRfTopology	62
models.RpdSsdCfg	62
models.RpdTelemetryCfg	63
models.RpdUtscCfg	63
models.Sav	63
models.SavGroupStruct	63
models.SbrlCfg	63
models.Sg	64
models.SpRouter	65
models.Spr	65
models.Sprstat	65
models.SubMacAddrSbrlList	65
models.SvcDsCfg	66
models.SvcDsCfgs	67
models.SvcUsCfg	67
models.SvcUsCfgs	69
models.TftpProxy	69
models.TxPowerHeadroomCfg	69
models.TxPowerHeadroomCfgs	69
models.UsCfg	69
models.UsCfgs	70
models.UsConfig	70
models.VendorCfg	71
models.Wiring	71
models.WiringL3Info	72
Operations Hub RPD/SG Operation API	75
Version: 1.0	75
/loglevel	75
GET	75
PUT	75
/v1/hashelf/reload	76

POST	76
/v1/if-index	76
GET	76
/v1/pnm-session	77
GET	77
PUT	77
/v1/rpd/cvc	78
GET	78
POST	78
/v1/rpd/cvc/{cvc-name}	79
DELETE	79
/v1/rpd/image	79
GET	79
POST	79
/v1/rpd/image/{filename}	80
DELETE	80
/v1/rpd/overview	80
GET	80
/v1/rpd/ssd	80
GET	80
POST	81
/v1/rpd/ssd-state	81
GET	81
/v1/rpd/upgrade/{image}	82
POST	82
/v1/sg/config/canary	82
POST	82
/v1/sg/config/canary/transactions	83
GET	83
/v1/sg/config/canary/transactions/active	83
GET	83
/v1/sg/config/canary/transactions/{transaction-id}	83
GET	83
/v1/sg/config/canary/transactions/{transaction-id}/revert-canary	84
POST	84
/v1/sg/config/canary/transactions/{transaction-id}/upgrade-all	84
POST	84
/v1/sg/{cmts-id}/{sg-name}	85
PUT	85
POST	85
DELETE	86
/v1/sg/{cmts-id}/{sg-name}/requests	86
GET	86
/v1/sg/{cmts-id}/{sg-name}/status	87
GET	87
/v1/sg/{transaction-id}/status	87

GET	87
/v1/shelf/group-information	88
GET	88
/v1/shelf/platform-information/{parameter}	88
GET	88
/v1/shelf/request-output/{parameter}	89
POST	89
/v1/utsc	90
GET	90
DELETE	90
/v1/utsc-status	91
GET	91
/v1/utsc/start	91
POST	91
/v1/utsc/stop	92
PUT	92
Models	92
main.IfIndexTable	92
main.PnmSessionForUser	92
main.ShelfEntry	93
main.UtscConfigForUser	93
main.UtscStatusForUser	95
rpd_operation.Error	95
rpd_operation.LogLevel	95
rpd_operation.Result	95
rpd_operation.SgConfig	95
rpd_operation.Status	96
rpd_operation.restTransactionTable	96
sg_cfg_canary.CanaryTransaction	96
sg_cfg_canary.CnbrSgs	97
sg_cfg_canary.Error	97
sg_cfg_canary.RequestBody	97
sg_cfg_canary.Result	98
Operations Hub KPI Alert Management API	99
Version: 1.0	99
Security	99
/v1/alerts	99
GET	99
/v1/alerts/groups	100
GET	100
/v1/alerts/groups/{name}	100
GET	100
PUT	101
/v1/alerts/{id}	101
GET	101

/v1/alerts/{id}/ack	102
PUT	102
/v1/loglevel	102
GET	102
PUT	102
/v1/smtp	103
GET	103
PUT	103
Models	104
model.AlertConfigGetInfo	104
model.AlertConfigSetInfo	104
model.AlertGetEntry	104
model.AlertGetInfo	104
model.AlertGroupGetInfo	105
model.AlertGroupSetInfo	105
model.AlertSetInfo	105
model.LogLevel	106
Operations Hub KPI Management API	107
Version: 1.0	107
/api/clusterkpi/health	107
GET	107
/api/clusterkpi/health/{folder}	108
GET	108

Operations Hub Authentication API

Version: 1.0

Security

BasicAuth

basic	<i>Basic</i>
-------	--------------

/loglevel

GET

Summary Get HM Auth Current LogLevel

Description Get HM Auth Current LogLevel

Responses

Code	Description	Schema
200	OK	auth.LogLevel

Security

Security Schema	Scopes
AuthBearerHeader	

PUT**Summary** Set HM Auth LogLevel**Description** Set HM Auth LogLevel**Parameters**

Name	Located in	Description	Required	Schema
LogLevel	body	Log Level	Yes	LogLevel

Responses

Code	Description	Schema
200	OK	auth.LogLevel
400	Bad Request	string

Security

Security Schema	Scopes
AuthBearerHeader	

/v1/token**POST****Summary** Generate an API token if user is valid**Description** Generate an API token**Responses**

Code	Description	Schema
201	Created	auth.TokenGenInfo
400	Bad Request	string

Security

Security Schema	Scopes
BasicAuth	

DELETE

Summary Delete access token from DB

Description Delete access token from DB

Responses

Code	Description	Schema
200	OK	string
400	Bad Request	string

Security

Security Schema	Scopes
AuthBearerHeader	

/v1/token/fresh**POST**

Summary Refresh access and fresh token

Description Refresh access and fresh token

Parameters

Name	Located in	Description	Required	Schema
Token	body	Token	Yes	auth.TokenRefreshReqInfo

Responses

Code	Description	Schema
200	OK	auth.TokenGenInfo
400	Bad Request	string

Security

Security Schema	Scopes
AuthBearerHeader	

/v1/token/validation**POST**

Summary Validate access token

Description Check if the access token is valid

Responses

Code	Description	Schema
200	OK	string
400	Bad Request	string

Security

Security Schema	Scopes
AuthBearerHeader	

Models**auth.LogLevel**

Name	Type	Description	Required
Log Level	string		No

auth.TokenGenInfo

Name	Type	Description	Required
access_token	string		No
refresh_token	string		No
refresh_token_expire	integer		No
token_type	string		No

auth.TokenRefreshReqInfo

Name	Type	Description	Required
access_token	string		No
refresh_token	string		No

Operations Hub cnBR Management API

Version: 1.0

/loglevel

GET

Summary Get HM Manager Current LogLevel

Description Get HM Manager Current LogLevel

Responses

Code	Description	Schema
200	OK	model.LogLevel

PUT

Summary Set HM Manager LogLevel

Description Set HM Manager LogLevel

Parameters

Name	Located in	Description	Required	Schema
LogLevel	body	Log Level	Yes	model.LogLevel

Responses

Code	Description	Schema
200	OK	model.LogLevel
400	Bad Request	string

/v1/cable-modems

GET

Summary Get all Cable Modems information

Description Get all Cable Modems information

Parameters

Name	Located in	Description	Required	Schema
cmts-id	query	CMTS	Yes	string
state	query	filter modems state	No	string
format	query	output format	Yes	string

Responses

Code	Description	Schema
200	OK	model.SCMInfo
400	Bad Request	string
404	Not Found	string

PUT

Summary Reset or Delete Modem from HM

Description Reset or Delete Modem from HM

Parameters

Name	Located in	Description	Required	Schema
ModemAction	body	Modem Action	Yes	model.ModemAction

Responses

Code	Description	Schema
200	ok	string
400	Bad Request	string

/v1/cable-modems/flap

GET

Summary ShowCableModem Flap List from HM

Description Show Cable Modem Flap List from HM

Parameters

Name	Located in	Description	Required	Schema
cmts-id	query	CMTS	Yes	string
format	query	output format	Yes	string

Responses

Code	Description	Schema
200	ok	string
400	Bad Request	string

/v1/cable-modems/phy

GET

Summary ShowCableModem PHY from HM

Description Show Cable Modem Phy from HM

Parameters

Name	Located in	Description	Required	Schema
cmts-id	query	CMTS	Yes	string
format	query	output format	Yes	string

Responses

Code	Description	Schema
200	ok	string
400	Bad Request	string

/v1/cable-modems/statistics

GET

Summary Get Modem Statistics from HM

Description Get all the monitored CMTSS' Modem statistics from HM

Responses

Code	Description	Schema
200	OK	model.CmStats
400	Bad Request	string

/v1/cable-modems/{mac}

GET

Summary Get one Cable Modem information

Description Get one Cable Modem information

Parameters

Name	Located in	Description	Required	Schema
mac	path	ModemMac	Yes	string
kind	query	output type	No	string

Responses

Code	Description	Schema
200	OK	model.ModemBasicInfo
400	Bad Request	string
404	Not Found	string

/v1/cable-modems/{mac}/cpes

GET

Summary GetModemCpeInfo from HM

Description Get Modem CPE Info from HM

Parameters

Name	Located in	Description	Required	Schema
mac	path	Modem Mac	Yes	string

Responses

Code	Description	Schema
200	ok	string
400	Bad Request	string

DELETE

Summary HttpDeleteModemCpes from HM

Description Delete Modem CPE Info from HM

Parameters

Name	Located in	Description	Required	Schema
mac	path	Modem Mac	Yes	string
cpe-mac	query	CPE Mac List, split with ,	No	string

Responses

Code	Description	Schema
200	ok	string
400	Bad Request	string

/v1/cable-modems/{mac}/dbc**GET****Summary** Get Modem Dbc Info from HM**Description** Get Modem Dbc Info from HM**Parameters**

Name	Located in	Description	Required	Schema
mac	path	ModemMac	Yes	string
kind	query	output type	Yes	string
limit	query	limit number for events	No	integer

Responses

Code	Description	Schema
200	ok	string
400	Bad Request	string

/v1/cable-modems/{mac}/debug**GET****Summary** Get Debug Information for any given Cable Modem using macidc**Description** Get cable modem's debug information from cnBr by invoking ida api's**Parameters**

Name	Located in	Description	Required	Schema
mac	path	ModemMac	Yes	string

Responses

Code	Description	Schema
200	OK	responseSlice
400	Bad Request	string
404	Not Found	string
500	CM Debug request failed	string

/v1/cable-modems/{mac}/service-flows**GET****Summary** Get cable modem's Service Flows information**Description** Get cable modem's Service Flows information**Parameters**

Name	Located in	Description	Required	Schema
mac	path	ModemMac	Yes	string

Responses

Code	Description	Schema
200	OK	model.SfPerModemList
400	Bad Request	string
404	Not Found	string

/v1/cmts**GET****Summary** Get all CMTS Information**Description** Get all CMTS Information**Parameters**

Name	Located in	Description	Required	Schema
fields	query	give information based on the fields	No	string

Responses

Code	Description	Schema
200	OK	model.CmtsDetailInfoEntries
400	Bad Request	string
404	Not Found	string

POST**Summary** Add new CMTSs to the HM**Description** Add new CMTSs to the HM**Parameters**

Name	Located in	Description	Required	Schema
Cmts	body	CMTS	Yes	model.NewCmtsInfo

Responses

Code	Description	Schema
200	OK	model.CmtsBasicInfo
400	Bad Request	model.Response
403	Forbidden	model.Response
500	Internal error	model.Response

DELETE**Summary** Delete All CMTSs from the HM**Description** Delete All CMTSs from the HM**Responses**

Code	Description	Schema
200	OK	model.CmtsEntry
400	Bad Request	string

/v1/cmts/mdcmsg**GET****Summary** Get all CMTS details**Description** Fetch the CMTS list as a DAG that contains all SG , with MD/CmSG/FN details, associated to each CMTS**Responses**

Code	Description	Schema
200	OK	model.CmtsResponse
400	Bad Request	model.Response

/v1/cmts/refresh

POST

Summary Refresh All CMTS

Description Trigger CMTS(s) to send the telemetry

Responses

Code	Description	Schema
200	OK	string
500	Internal Server Error	string

/v1/cmts/version

GET

Summary Get All cnBR Version

Description HttpGetcnBRVersion api fetches the versions of the cnBR related components using restconf.ccmts-infra-ops-center for all cnBRs

Responses

Code	Description	Schema
200	OK	model.ResponseRootObject

/v1/cmts/{cmts-id}

GET

Summary Get one CMTS information

Description Get one CMTS information

Parameters

Name	Located in	Description	Required	Schema
cmts-id	path	CMTS	Yes	string
fields	query	give information on the fields	No	string

Responses

Code	Description	Schema
200	OK	model.CmtsBasicInfo
400	Bad Request	string
404	Not Found	string

PUT

Summary Edit CMTS credentials to the HM

Description Edit CMTS credentials to the HM

Parameters

Name	Located in	Description	Required	Schema
cmts-id	path	CMTS	Yes	string
Cmts	body	CMTS credentials	Yes	model.NewCmtsCreds

Responses

Code	Description	Schema
200	OK	model.Response
400	Bad Request	model.Response
500	Internal error	model.Response

DELETE

Summary Delete one CMTS from the HM

Description Delete one CMTS from the HM

Parameters

Name	Located in	Description	Required	Schema
cmts-id	path	CMTS	Yes	string

Responses

Code	Description	Schema
200	OK	model.CmtsEntry
404	Not found	string

/v1/cmts/{cmts-id}/configs**GET****Summary** Get CMTS Config**Description** Get CMTS Config**Parameters**

Name	Located in	Description	Required	Schema
cmts-id	path	CMTS	Yes	string
type	query	config type	No	string

Responses

Code	Description	Schema
200	configuration	string
500	Internal Server Error	string

/v1/cmts/{cmts-id}/health**POST****Summary** Update CMTS Health**Description** Update CMTS healthy status**Parameters**

Name	Located in	Description	Required	Schema
cmts-id	path	CMTS	Yes	string

Responses

Code	Description	Schema
200	OK	string
500	Internal Server Error	string

/v1/cmts/{cmts-id}/interfaces**GET**

Summary Get CMTS's Interfaces information

Description Get CMTS's Interfaces information

Parameters

Name	Located in	Description	Required	Schema
cmts-id	path	CMTS	Yes	string

Responses

Code	Description	Schema
200	OK	model.IntfInfoList
400	Bad Request	string
404	Not Found	string

/v1/cmts/{cmts-id}/modems**GET**

Summary Get CMTS's Cable Modem List

Description Get CMTS's Cable Modem List

Parameters

Name	Located in	Description	Required	Schema
cmts-id	path	CMTS	Yes	string

Responses

Code	Description	Schema
200	OK	model.CmSgList
400	Bad Request	string
404	Not Found	string

/v1/cmts/{cmts-id}/refresh**POST****Summary** Refresh CMTS**Description** Trigger CMTS to send the telemetry**Parameters**

Name	Located in	Description	Required	Schema
cmts-id	path	CMTS	Yes	string

Responses

Code	Description	Schema
200	OK	string
500	Internal Server Error	string

/v1/cmts/{cmts-id}/version**GET****Summary** Get cnBR Version**Description** HttpGetcnBRVersion api fetches the versions of the cnBR related components using restconf.ccmts-infra-ops-center for one cnBR**Parameters**

Name	Located in	Description	Required	Schema
cmts-id	path	CMTS	Yes	string

Responses

Code	Description	Schema
200	OK	model.ResponseRootObject

/v1/collector/file/{tid}**GET**

Summary Get the tar.gz file which includes collected information

Description Get the tar.gz file which includes collected information

Parameters

Name	Located in	Description	Required	Schema
tid	path	tid of the collection	Yes	string

Responses

Code	Description	Schema
200	OK	string
500	Internal Server Error	string

DELETE

Summary Delete the tar.gz file which includes collected information as well as its record in database

Description Get the tar.gz file which includes collected information as well as its record in database

Parameters

Name	Located in	Description	Required	Schema
tid	path	tid of the collection	Yes	string

Responses

Code	Description	Schema
200	OK	string
500	Internal Server Error	string

/v1/collector/info**PUT****Summary** Collector Debug Info**Description** Collector Debug Info**Parameters**

Name	Located in	Description	Required	Schema
CollectorInfo	body	Collector Info	Yes	handler.CollectorInfo

Responses

Code	Description	Schema
200	ok	string
400	Bad Request	string

/v1/collector/snapshot**/v1/opshub/version****GET****Summary** Get Opshub Version**Description** HttpGetOpshubersion api fetches the version of the Opshub related components**Responses**

Code	Description	Schema
200	OK	model.ResponseRootObject

/v1/service-flows**GET****Summary** Get CMTS's Service Flows list**Description** Get CMTS's Service Flows list**Parameters**

Name	Located in	Description	Required	Schema
cmts-id	query	CMTS	Yes	string

Responses

Code	Description	Schema
200	OK	model.ServiceFlowList
400	Bad Request	string
404	Not Found	string

/v1/service-flows/{sf-id}**GET****Summary** Get one Service Flow**Description** Get one Service Flow**Parameters**

Name	Located in	Description	Required	Schema
cmts-id	query	CMTS	Yes	string
sg-id	query	Service Group	Yes	integer
md-id	query	MAC Domain	Yes	integer
sf-id	path	Service Flow	Yes	integer

Responses

Code	Description	Schema
200	OK	model.SfInfoVerb
400	Bad Request	string
404	Not Found	string

Models

handler.CollectorInfo

Name	Type	Description	Required
from	string		No
info_source	[handler.CollectorTypeInfo]		No
to	string		No
user	string		No

handler.CollectorTypeInfo

Name	Type	Description	Required
id	string		No
source	string		No
type	string		No

model.CmSg

Name	Type	Description	Required
mdCmSgId	integer		No
mdDsSg	model.DsSg		No
mdUsSg	model.UsSg		No

model.CmSgInfo

Name	Type	Description	Required
modems-list	[string]		No
sg-id	integer		No

model.CmSgList

Name	Type	Description	Required
cmts-id	string		No
sg-id-list	[model.CmSgInfo]		No

model.CmSgStatsInfo

Name	Type	Description	Required
init	integer		No
offline	integer		No
online	integer		No
sg-id	integer		No

model.CmStats

Name	Type	Description	Required
cmts-modems-stats	[model.CmStatsItem]		No

model.CmStatsItem

Name	Type	Description	Required
cmts-id	string		No
sg-stats	[model.CmSgStatsInfo]		No

model.CmtsBasicInfo

Name	Type	Description	Required
access-token	string	CmtsToken string json:"cmts-token"	No
cluster-numeric-id	integer		No
cmts-id	string		No
cmts-name	string		No
ingress-host-name	string		No
namespace	string		No
password	string		No
refresh-token	string		No
refresh-token-expire	integer		No
status	string		No
token-refresh-status	string		No
username	string		No

model.CmtsDetailInfo

Name	Type	Description	Required
access-token	string		No
cmts-id	string		No
cmts-name	string		No
description	string	CmtsToken string json:"cmts-token"	No

Name	Type	Description	Required
docsis-base-cap	string		No
ingress-host-name	string		No
namespace	string		No
password	string		No
refresh-token	string		No
refresh-token-expire	integer		No
status	string		No
token-refresh-status	string		No
username	string		No

model.CmtsDetailInfoEntries

Name	Type	Description	Required
cmts-list	[model.CmtsDetailInfo]		No

model.CmtsEntry

Name	Type	Description	Required
cmts-id	[string]		No

model.CmtsResponse

Name	Type	Description	Required
cmts	[model.MdCmSg]		No

model.ComponentsObject

Name	Type	Description	Required
name	string		No
version	string		No

model.DsSg

Name	Type	Description	Required
dsChanSet	[integer]		No
mdDsSgId	integer		No

model.FiberNode

Name	Type	Description	Required
fnId	integer		No
mdCmSgs	[model.CmSg]		No

model.IntfInfo

Name	Type	Description	Required
if-in-octets	integer		No
if-mac	string		No
if-name	string		No
if-out-octets	integer		No
if-stack-status	string		No
if-type	string		No

model.IntfInfoList

Name	Type	Description	Required
cluster-id	string		No
interface-list	[model.IntfInfo]		No

model.LogLevel

Name	Type	Description	Required
Log Level	string		No

model.MACDomain

Name	Type	Description	Required
fiber-nodes	[model.FiberNode]		No
mdId	integer		No

model.MdCmSg

Name	Type	Description	Required
cmts-id	string		No
service-groups	[model.ServiceGroup]		No

model.ModemAction

Name	Type	Description	Required
action	string		No
cmts-id	string		No
modems	[string]		No
sg-id	string		No

model.ModemBasicInfo

Name	Type	Description	Required
cpe-count	integer		No
errors-correctable(s)	integer		No
errors-uncorrectable(s)	integer		No
flap-count	integer		No
flap-time	string		No
good-codeword	integer		No
interface	string		No
ip-address	[string]		No
mac-address	string		No
mac-tate	string		No
mac-version	string		No
operation-version	string		No
primary-ds-sfid	integer		No
primary-sID	integer		No
primary-us-sfid	integer		No
provisioned-version	string		No
rcp-id	string		No
rsc-dcid	[integer]		No
reinit-reason	string		No
tcs-ucid	[integer]		No
timing-offset	integer		No

model.NewCmtsCreds

Name	Type	Description	Required
password	string		No
username	string		No

model.NewCmtsInfo

Name	Type	Description	Required
cmts-name	string		No
ingress-host-name	string		No
namespace	string		No
password	string		No
username	string		No

model.Response

Name	Type	Description	Required
message	string	<i>Example: "message"</i>	No

model.ResponseObject

Name	Type	Description	Required
cmtsid	string		No
components	[model.ComponentsObject]		No
name	string		No
version	string		No

model.ResponseRootObject

Name	Type	Description	Required
deployments	[model.ResponseObject]		No

model.SCMInfo

Name	Type	Description	Required
cpe-num	string		No
dual-stack	string		No
interface	string		No
ip-addr	string		No
mac-state	string		No
modem-mac	string		No
prim-sid	string		No
rx-pwr(dBmV)	string		No
timing-offset	string		No

model.ServiceFlowList

Name	Type	Description	Required
cmts-id	string		No
service-flow-list	[model.SfInfo]		No

model.ServiceGroup

Name	Type	Description	Required
mac-domains	[model.MACDomain]		No
sgId	integer		No

model.SfInfo

Name	Type	Description	Required
dir	string		No
id	integer		No
mac	string		No
mac-domain-id	integer		No
service-group-id	integer		No
state	string		No
type	string		No

model.SfInfoVerb

Name	Type	Description	Required
byte-cnt	integer		No
clusterId	string		No
dir	string		No
id	integer		No
mac	string		No
mdId	integer		No
pkt-cnt	integer		No
sgId	integer		No
state	string		No
type	string		No

model.SfPerModem

Name	Type	Description	Required
byte-cnt	integer		No
dir	string		No
id	integer		No
pkt-cnt	integer		No
state	string		No
type	string		No

model.SfPerModemList

Name	Type	Description	Required
mac	string		No
service-flow-list	[model.SfPerModem]		No

model.UsSg

Name	Type	Description	Required
mdUsSgId	integer		No
usChanSet	[integer]		No

Operations Hub cnBR Configuration API

Version: 1.0

`/v1/cmts/config/{cmts-id}`

GET

Summary Get cnBR-Core All Configuration

Description Get cnBR-Core all configuration

Parameters

Name	Located in	Description	Required	Schema
cmts-id	path	cnBR-Core Cluster ID	Yes	string

Responses

Code	Description	Schema
200	OK	string
400	Bad Request	string

PUT

Summary Update cnBR-Core All Configuration

Description Update cnBR-Core all configuration

Parameters

Name	Located in	Description	Required	Schema
cmts-id	path	cnBR-Core Cluster ID	Yes	string
Configuration	body	Cluster Configuration	Yes	model.CnBRConfig

Responses

Code	Description	Schema
200	OK	string
400	Bad Request	string

/v1/cmts/{cmts-id}/config/global**GET****Summary** Get cnBR-Core Global Configuration**Description** Get cnBR-Core Global Configuration**Parameters**

Name	Located in	Description	Required	Schema
cmts-id	path	cnBR-Core Cluster ID	Yes	string
type	query	Global Configuration Type	Yes	string

Responses

Code	Description	Schema
200	OK	string
400	Bad Request	string

PUT**Summary** Update cnBR-Core Global Configuration**Description** Update cnBR-Core Global Configuration**Parameters**

Name	Located in	Description	Required	Schema
cmts-id	path	cnBR-Core Cluster ID	Yes	string
type	query	Global Configuration Type	Yes	string
value	body	Global Configuration JSON Data	Yes	string

Responses

Code	Description	Schema
200	OK	string
400	Bad Request	string

/v1/cmts/{cmts-id}/config/service-groups/{service-group-id}

GET

Summary Get cnBR-Core SG Configuration

Description Get cnBR-Core Service Group Configuration

Parameters

Name	Located in	Description	Required	Schema
cmts-id	path	cnBR-Core Cluster ID	Yes	string
service-group-id	path	Service Group ID	Yes	integer

Responses

Code	Description	Schema
200	OK	models.Sg
400	Bad Request	string

/v1/cmts/{cmts-id}/service-group-ids

GET

Summary Get cnBR-Core SG ID List

Description Get cnBR-Core Service Group List in cnBR-Core

Parameters

Name	Located in	Description	Required	Schema
cmts-id	path	cnBR-Core Cluster ID	Yes	string

Responses

Code	Description	Schema
200	OK	model.ServiceGroupList
400	Bad Request	string

/v1/templates**GET****Summary** Get All Configuration Template**Description** Get all configuration template**Parameters**

Name	Located in	Description	Required	Schema
type	query	Template Type	No	string

Responses

Code	Description	Schema
200	OK	string
400	Bad Request	string

POST**Summary** Add Configuration Template**Description** Add configuration template**Parameters**

Name	Located in	Description	Required	Schema
Template	body	Template	Yes	model.Template

Responses

Code	Description	Schema
200	OK	string
400	Bad Request	string

/v1/templates/{template-name}

GET

Summary Get Configuration Template

Description Get configuration template

Parameters

Name	Located in	Description	Required	Schema
template-name	path	Template Name	Yes	string
type	query	Template Type	No	string

Responses

Code	Description	Schema
200	OK	string
400	Bad Request	string

PUT

Summary Update Configuration Template

Description Update configuration template

Parameters

Name	Located in	Description	Required	Schema
template-name	path	Template Name	Yes	string
Template	body	Template	Yes	model.Template

Responses

Code	Description	Schema
200	OK	string
400	Bad Request	string

DELETE

Summary Delete Configuration Template

Description Delete configuration template

Parameters

Name	Located in	Description	Required	Schema
template-name	path	Template Name	Yes	string

Responses

Code	Description	Schema
200	OK	string
400	Bad Request	string

Models**model.CnBRConfig**

Name	Type	Description	Required
global	model.CnbrGlobalConfig		No
sgs	[model.CnbrSGConfig]		No

model.CnbrGlobalConfig

Name	Type	Description	Required
Spr	models.Spr		No
bgpagent	models.Bgpagent		No
cin	models.Cin		No
l2vpn	models.L2vpn		No
packetcable	models.Packetcable		No
pfgActive	models.PfgActive		No

Name	Type	Description	Required
pfgGroup	models.PfgGroup		No
ptp	models.Ptp		No
rip	models.Rip		No
sav	models.Sav		No
tftpProxy	models.TftpProxy		No
wiring	models.Wiring		No

model.CnbrSGConfig

Name	Type	Description	Required
sg-config	models.Sg		No
sgid	integer		No

model.ServiceGroupList

Name	Type	Description	Required
model.ServiceGroupList	array		

model.Template

Name	Type	Description	Required
description	string	<i>Example:</i> "My First Template Example"	No
json-data	string (json)	<i>Example:</i> "Template JSON Data"	No
name	string	<i>Example:</i> "MyFirstTemplate"	No
type	string	<i>Example:</i> "TEMPLATE-SG"	No

models.BackoffCfg

Name	Type	Description	Required
end	integer	end Maximum: 15 Minimum: 0	No
start	integer	start Maximum: 15 Minimum: 0	No

models.BgpNeighbor

Name	Type	Description	Required
address	string	address	No
asNumber	integer	as number Maximum: 65535 Minimum: 1	No
gateway	string	gateway	No
weight	integer	weight Maximum: 65535 Minimum: 1	No

models.Bgpagent

Name	Type	Description	Required
asNumber	integer	as number Required: true Maximum: 65535 Minimum: 1	No
ebgpMultihop	integer	ebgp multihop Required: true Maximum: 255 Minimum: 0	No
gracefulRestart	boolean	graceful restart Required: true	No
ifname	string	ifname Required: true Max Length: 255 Min Length: 1	No
neighbors	[models.BgpNeighbor]	neighbors Required: true	No

models.Cin

Name	Type	Description	Required
CinGwIp	string	cin gw Ip	No
CinGwIpv6	string	cin gw ipv6	No
CinGwWeight	integer	cin gw weight Maximum: 65535 Minimum: 1	No
SecondaryCinGwIp	string	secondary cin gw Ip	No
SecondaryCinGwIpv6	string	secondary cin gw ipv6	No
SecondaryCinGwWeight	integer	secondary cin gw weight Maximum: 65535 Minimum: 1	No

models.Dhcp

Name	Type	Description
adjCleanup	boolean	adj cleanup
arpGlean	boolean	arp glean

Name	Type	Description	Req
arpProxy	boolean	arp proxy	No
arpTimer	integer	arp timer Maximum: 1440 Minimum: 0	No
customDevice	string	custom device	No
dhcpIfname	string	dhcp ifname	No
dhcpServers	[string]	dhcp servers	No
dynamicSecret	boolean	dynamic secret	No
dynamicSecretExcModemList	[string]	dynamic secret exc modem list	No
dynamicSecretExcOUIList	[string]	dynamic secret exc o UI list	No
ipv4Giaddr	[string]	ipv4 giaddr	No
ipv4Lq	boolean	ipv4 lq	No
ipv4LqLeasetimer	integer	ipv4 lq leasetimer Maximum: 240 Minimum: 1	No
ipv6LinkAddr	[string]	ipv6 link addr	No
ipv6Lq	boolean	ipv6 lq	No
ipv6LqLeasetimer	integer	ipv6 lq leasetimer Maximum: 240 Minimum: 1	No
lqV4scope	[string]	lq v4scope	No
lqV6prefix	[string]	lq v6prefix	No
mobilityScopes	[string]	mobility scopes	No
ndGlean	boolean	nd glean	No
ndProxy	boolean	nd proxy	No
ndpTimer	integer	ndp timer Maximum: 1440 Minimum: 0	No
raInterval	integer	ra interval Maximum: 1800 Minimum: 4	No
relayModeV4	integer	relay mode v4 Maximum: 255 Minimum: 0	No
relayModeV6	integer	relay mode v6 Maximum: 255 Minimum: 0	No
relayPolicies	[models.DhcpRelayPolicy]	relay policies	No
v4Nets	[string]	v4 nets	No
v6Nets	[string]	v6 nets	No
vrouterBdiLla	string	vrouter bdi lla	No
vrouterBdiMac	string	vrouter bdi mac	No

models.DhcpRelayPolicy

Name	Type	Description	Required
deviceClass	string	device class Enum: [CM HOST MTA STB PS EROUTER DVA CUSTOM]	No
giAddr	string	gi addr	No
linkAddr	string	link addr	No
v4ServerIp	string	v4 server Ip	No
v6ServerIp	string	v6 server Ip	No

models.DlmCfg

Name	Type	Description	Required
interval	integer	interval Maximum: 420 Minimum: 1	No
updateMap	boolean	update map	No

models.Dot1qvc

Name	Type	Description	Required
modemMAC	string	modem m a c	No
vlanID	integer	vlan ID Maximum: 4095 Minimum: 2	No
vpnID	string	vpn ID Max Length: 255 Min Length: 1	No

models.DsCfg

Name	Type	Description	Required
annex	string	annex Enum: [AnnexA AnnexB AnnexC]	No
attributeMask	integer	attribute mask Maximum: 4.294967295e+09 Minimum: 0	No
frequency	integer	frequency Maximum: 1.794e+09 Minimum: 5.4e+07	No
idInSg	integer	id in sg Required: true	No
interleaver	string	interleaver Enum: [fecI8J16 fecI12J17 fecI16J8 fecI32J4 fecI64J2 fecI128J1 fecI128J2 fecI128J3 fecI128J4 fecI128J5 fecI128J6 fecI128J7 fecI128J8]	No
modulation	string	modulation Enum: [qam256 qam64]	No
powerAdjust	integer	power adjust Maximum: 6 Minimum: -8	No
rfMute	boolean	rf mute	No

models.DsCfgs

Name	Type	Description	Required
models.DsCfgs	array		

models.DsResilCfg

Name	Type	Description	Required
chCmCount	integer	ch cm count	No
chOfdmCmCount	integer	ch ofdm cm count	No
chOfdmPercent	integer	ch ofdm percent	No
chPercent	integer	ch percent	No
chStateEn	string	ch state en Enum: [true false]	No
dampenTime	integer	dampen time Minimum: 5	No
resilEn	string	resil en Enum: [true false]	No

models.DsgCfg

Name	Type	Description	Required
cfr	[models.DsgCfr]	cfr	No
chanList	[models.DsgChanList]	chan list	No
clientList	[models.DsgClientList]	client list	No
dseh	boolean	dseh	No
nameUpdateInterval	integer	name update interval	No
tg	[models.DsgTg]	tg	No
timer	[models.DsgTimer]	timer	No
tunnel	[models.DsgTunnel]	tunnel	No
vendorParam	[models.DsgVendorParam]	vendor param	No

models.DsgCfr

Name	Type	Description	Required
destIp	string	dest Ip	No
destPortEnd	integer	dest port end	No
destPortStart	integer	dest port start	No
enable	boolean	enable	No
id	integer	id	No
priority	integer	priority	No
srcIp	string	src Ip	No
srcIpMask	string	src Ip mask	No
srcPortEnd	integer	src port end	No
srcPortStart	integer	src port start	No

models.DsgChan

Name	Type	Description	Required
freq	integer	freq Maximum: 1e+09 Minimum: 1e+08	No
id	integer	id	No

models.DsgChanList

Name	Type	Description	Required
chans	[models.DsgChan]	chans	No
id	integer	id	No

models.DsgClient

Name	Type	Description	Required
applicationId	string	application Id	No
broadcast	string	broadcast	No
caSystemId	string	ca system Id	No
id	integer	id	No
macAddr	[string]	mac addr	No
vendorParam	integer	vendor param	No

models.DsgClientList

Name	Type	Description	Required
clients	[models.DsgClient]	clients	No
id	integer	id	No

models.DsgTg

Name	Type	Description	Required
id	integer	id	No
tunnel	[integer]	tunnel	No

models.DsgTimer

Name	Type	Description	Required
id	integer	id	No
timeout	[integer]	timeout	No

models.DsgTunnel

Name	Type	Description	Required
cfr	[integer]	cfr	No
clientList	integer	client list	No
id	integer	id	No
macAddr	string	mac addr	No

models.DsgVendorParam

Name	Type	Description	Required
id	integer	id	No
vendor	[models.VendorCfg]	vendor	No

models.GracefulRestart

Name	Type	Description	Required
enable	boolean	enable	No
restartTime	integer	restart time Maximum: 3600 Minimum: 1	No
stalePathTime	integer	stale path time Maximum: 3600 Minimum: 1	No

models.IcpiCfg

Name	Type	Description	Required
icpiPerCausePuntCfgList	[models.IcpiPerCausePuntCfgList]	icpi per cause punt cfg list	No

models.IcpiPerCausePuntCfg

Name	Type	Description	Required
MaxBurst	integer	max burst	No
MaxRate	integer	max rate	No

models.IcpiPerCausePuntCfgList

Name	Type	Description	Required
CauseId	integer	cause Id	No
icpiPerCausePuntCfg	models.IcpiPerCausePuntCfg	icpi per cause punt cfg	No

models.L2vpn

Name	Type	Description	Required
dot1qVcMap	[models.Dot1qvc]	dot1q vc map	No
mplsVcMap	[models.Mplsvc]	mpls vc map	No
mplsVlanRangeSg	[models.Mplsvlansg]	mpls vlan range sg	No
spRouterStat	[models.Sprstat]	sp router stat	No

models.Layer3Cfg

Name	Type	Description	Required
sgGWMac	string	sg g w mac	No
sgIpv4	string	sg Ipv4	No
sgIpv6	string	sg Ipv6	No
sgMac	string	sg mac	No
sgPeerIpv4	string	sg peer Ipv4	No
sgPeerIpv6	string	sg peer Ipv6	No

models.MapAdvanceCfg

Name	Type	Description	Required
advanceTime	integer	advance time Maximum: 45000 Minimum: 100	No
mode	string	mode Enum: [static dynamic]	No
safetyFactor	integer	safety factor Maximum: 1500 Minimum: 300	No

models.MapCtrlCfg

Name	Type	Description	Required
mapPgiePaddingEna	boolean	map pgie padding ena Required: true	No

models.McastCfg

Name	Type	Description	Required
mdfDisable	[string]	mdf disable	No
mdfOverride	boolean	mdf override	No

models.MdCfg

Name	Type	Description	Required
adminState	string	admin state	No
cmInitChanTimeout	integer	cm init chan timeout Maximum: 65535 Minimum: 1	No
dataBackoff	models.BackoffCfg	data backoff	No
disableDocs31	boolean	disable docs31	No
disableMrcMode	boolean	disable mrc mode	No
disableMtcMode	boolean	disable mtc mode	No
dsg	models.MdDsgCfg	dsg	No
enableBalanceUs	boolean	enable balance us	No
idInSg	integer	id in sg Required: true	No
insertionInterval	integer	insertion interval Maximum: 2000 Minimum: 100	No
ipInit	string	ip init	No
mac	string	mac	No
mapAdvance	models.MapAdvanceCfg	map advance	No
multiCast	models.McastCfg	multi cast	No
primDcid	[integer]	prim dcid	No
rangeBackoff	models.BackoffCfg	range backoff	No
registrationTimeout	integer	registration timeout Maximum: 60 Minimum: 2	No
reportVerboseRCP	boolean	report verbose r c p	No
rng	models.RngSgCfg	rng	No
sharedSecret	[string]	shared secret	No
syncInterval	integer	sync interval	No
ucId	[integer]	uc Id	No
usInitTech	integer	us init tech Maximum: 4 Minimum: 1	No

models.MdCfgs

Name	Type	Description	Required
models.MdCfgs	array		

models.MdDsgCfg

Name	Type	Description	Required
channelList	integer	channel list	No
dcdDisable	[integer]	dcd disable	No

Name	Type	Description	Required
tg	[integer]	tg	No
timer	integer	timer	No
vendorParam	integer	vendor param	No

models.ModProfCfg

Name	Type	Description	Required
entries	models.ModProfCfgEntries	entries	No
idInSg	integer	id in sg Required: true	No

models.ModProfCfgEntries

Name	Type	Description	Required
advPhyLongData	models.Profentries	adv phy long data	No
advPhyShortData	models.Profentries	adv phy short data	No
initialRanging	models.Profentries	initial ranging	No
longData	models.Profentries	long data	No
periodicRanging	models.Profentries	periodic ranging	No
request	models.Profentries	request	No
requestData	models.Profentries	request data	No
shortData	models.Profentries	short data	No
ugs	models.Profentries	ugs	No

models.ModProfCfgs

Name	Type	Description	Required
models.ModProfCfgs	array		

models.Mplsvc

Name	Type	Description	Required
experimental	integer	experimental Maximum: 7 Minimum: 0	No
modemMAC	string	modem m a c	No
peerIp	string	peer Ip	No
vcID	integer	vc ID Minimum: 1	No
vpnID	string	vpn ID Max Length: 255 Min Length: 1	No

models.Mplsvlansg

Name	Type	Description	Required
maxVlan	integer	max vlan Maximum: 4094 Minimum: 2	No
minVlan	integer	min vlan Maximum: 4094 Minimum: 2	No
sgId	integer	sg Id Minimum: 0	No

models.NetworkDelayCfg

Name	Type	Description	Required
dlmCfg	models.DlmCfg	dlm cfg	No
staticDelay	integer	static delay Maximum: 100000 Minimum: 30	No

models.OfdmDsCfg

Name	Type	Description	Required
attributeMask	integer	attribute mask	No
cyclicPrefix	integer	cyclic prefix Enum: [192 256 512 768 1024]	No
idInSg	integer	id in sg Required: true Maximum: 162 Minimum: 158	No
interleaverDepth	integer	interleaver depth Maximum: 32 Minimum: 1	No
pilotScaling	integer	pilot scaling Maximum: 120 Minimum: 48	No
plc	integer	plc Maximum: 1.218e+09 Minimum: 1.08e+08	No
profileControl	string	profile control	No
profileData	[models.OfdmProfileType]	profile data	No
profileNcp	string	profile ncp	No
rfMute	boolean	rf mute	No
rollOff	integer	roll off Enum: [64 128 192 256]	No
startFrequency	integer	start frequency Maximum: 1.218e+09 Minimum: 1.08e+08	No
subcarrierSpacing	string	subcarrier spacing Enum: [50KHZ 25KHZ]	No

Name	Type	Description	Required
width	integer	width Maximum: 1.92e+08 Minimum: 2.4e+07	No

models.OfdmDsCfgs

Name	Type	Description	Required
models.OfdmDsCfgs	array		

models.OfdmFreqExclBand

Name	Type	Description	Required
startFreq	integer	start freq Maximum: 1.217e+09 Minimum: 1.08e+08	No
width	integer	width Maximum: 1.11e+09 Minimum: 1e+06	No

models.OfdmModProfCfg

Name	Type	Description	Required
assigns	[models.OfdmProfAssigns]	assigns	No
description	string	description	No
idInSg	integer	id in sg Required: true	No
modulationDefault	string	modulation default	No

models.OfdmModProfCfgs

Name	Type	Description	Required
models.OfdmModProfCfgs	array		

models.OfdmProfAssigns

Name	Type	Description	Required
modulation	string	modulation	No
rangeSubcarriers	models.RangeSubcarrier	range subcarriers	No

models.OfdmProfMgmtCfg

Name	Type	Description	Required
exempt-sc-pct	integer	exempt sc pct Maximum: 100 Minimum: 0	No
mer-margin-qdb	integer	mer margin qdb Maximum: 40 Minimum: 0	No
recm-prof-age	integer	recm prof age Maximum: 1440 Minimum: 1	No
rxmer-poll-interval	integer	rxmer poll interval Maximum: 1440 Minimum: 1	No
unfit-prof-age	integer	unfit prof age Maximum: 1440 Minimum: 1	No

models.OfdmProfileType

Name	Type	Description	Required
id	integer	id Required: true Maximum: 5 Minimum: 1	No
modulationDefault	string	modulation default	No
modulationProfile	integer	modulation profile	No

models.OfdmaDataIuc

Name	Type	Description	Required
idIuc	integer	id iuc Required: true Enum: [5 6 9 10 11 12 13]	No
modulation	string	modulation Enum: [none bpsk qpsk qam8 qam16 qam32 qam64 qam128 qam256 qam512 qam1024]	No
pilotPattern	integer	pilot pattern Maximum: 14 Minimum: 1	No

models.OfdmaDataIucOverWrite

Name	Type	Description	Required
idIuc	integer	id iuc Required: true Enum: [5 6 9 10 11 12 13]	No
modulation	string	modulation Enum: [none bpsk qpsk qam8 qam16 qam32 qam64 qam128 qam256 qam512 qam1024]	No
pilotPattern	integer	pilot pattern Maximum: 14 Minimum: 1	No
startFreq	integer	start freq Required: true Maximum: 2.04e+08 Minimum: 5e+06 Multiple Of: 50000	No

Name	Type	Description	Required
width	integer	width Required: true Maximum: 9.5e+07 Minimum: 50000 Multiple Of: 50000	No

models.OfdmaFreqPortBand

Name	Type	Description	Required
startFreq	integer	start freq Maximum: 2.04e+08 Minimum: 5e+06 Multiple Of: 50000	No
width	integer	width Maximum: 1.99e+08 Minimum: 50000 Multiple Of: 50000	No

models.OfdmaUsCfg

Name	Type	Description	Required
adminState	string	admin state	No
attributeMask	integer	attribute mask Maximum: 4.294967295e+09 Minimum: 0	No
cyclicPrefix	integer	cyclic prefix Enum: [96 128 160 192 224 256 288 320 384 512 640]	No
dataIucOverWrite	boolean	data iuc over write models.OfdmaDataIucOverWrite	No
docsisMode	string	docsis mode Enum: [ofdma]	No
equalizationCoeffEnable	boolean	equalization coeff enable	No
idInSg	integer	id in sg Required: true Maximum: 13 Minimum: 12	No
initRngFreqStart	integer	init rng freq start Maximum: 1.971e+09 Minimum: 5e+06	No
modulation	integer	modulation Maximum: 500 Minimum: 401	No
powerLevel	integer	power level Maximum: 23 Minimum: -13	No
rollOffPeriod	integer	roll off period Enum: [0 32 64 96 128 160 192 224]	No

Name	Type	Description	Required
startFrequency	integer	start frequency Maximum: 1.971e+08 Minimum: 4.5e+06 Multiple Of: 50000	No
subcarrierSpacing	string	subcarrier spacing Enum: [50KHZ 25KHZ]	No
symbolsPerFrame	integer	symbols per frame Maximum: 36 Minimum: 6	No
width	integer	width Maximum: 9.6e+07 Minimum: 7.4e+06 Multiple Of: 50000	No

models.OfdmaUsCfgs

Name	Type	Description	Required
models.OfdmaUsCfgs	array		

models.OfdmaUsModProfCfg

Name	Type	Description	Required
dataIucs	[models.OfdmaDataIuc]	data iucs	No
fineRngSubcarriers	integer	fine rng subcarriers Maximum: 512 Minimum: 64 Multiple Of: 2	No
idInSg	integer	id in sg Required: true	No
initialRngPreamble	integer	initial rng preamble Maximum: 8 Minimum: 1	No
initialRngSubcarriers	integer	initial rng subcarriers Maximum: 128 Minimum: 16 Multiple Of: 2	No
subcarrierSpacing	string	subcarrier spacing Enum: [50KHZ 25KHZ]	No

models.OfdmaUsModProfCfgs

Name	Type	Description	Required
models.OfdmaUsModProfCfgs	array		

models.OverlayInfo

Name	Type	Description	Required
overlay-type	string	overlay type	Required: true Enum: [vxlan vlan]
vlan-info	models.OverlayVlanInfo	vlan info	No
vxlan-info	models.OverlayVxlanInfo	vxlan info	No

models.OverlayVlanInfo

Name	Type	Description	Required
cnbr-wan-bond-loadbalance	string	cnbr wan bond loadbalance Enum: [L2 L34 L23 RR BC AB]	No
cnbr-wan-bond-mode	string	cnbr wan bond mode Enum: [lacp roundrobin activebackup xor broadcast]	No
cnbr-wan-bonded-interface1	string	cnbr wan bonded interface1	No
cnbr-wan-bonded-interface2	string	cnbr wan bonded interface2	No
cnbr-wan-ifname	string	cnbr wan ifname Required: true	No
overlay-cin-vlan	integer	overlay cin vlan Required: true Maximum: 4095 Minimum: 1	No
overlay-l2vpn-mpls-vlan	integer	overlay l2vpn mpls vlan Maximum: 4095 Minimum: 1	No
overlay-l2vpn-vlan-vlan	integer	overlay l2vpn vlan vlan Maximum: 4095 Minimum: 1	No
overlay-wan-vlan	integer	overlay wan vlan Required: true Maximum: 4095 Minimum: 1	No
secondary-overlay-l2vpn-mpls-vlan	integer	secondary overlay l2vpn mpls vlan Maximum: 4095 Minimum: 1	No

Name	Type	Description	Required
secondary- overlay- l2vpn- vlan-vlan	integer	secondary overlay l2vpn vlan vlan Maximum: 4095 Minimum: 1	No

models.OverlayVxlanInfo

Name	Type	Description	Required
cnbr- loopback- ip	string	cnbr loopback ip Required: true	No
cnbr-wan- bond- loadbalance	string	cnbr wan bond loadbalance Enum: [L2 L34 L23 RR BC AB]	No
cnbr-wan- bond- mode	string	cnbr wan bond mode Enum: [lacp roundrobin activebackup xor broadcast]	No
cnbr-wan- bonded- interface1	string	cnbr wan bonded interface1	No
cnbr-wan- bonded- interface2	string	cnbr wan bonded interface2	No
cnbr-wan- ifname	string	cnbr wan ifname Required: true	No
cnbr-wan- ip	string	cnbr wan ip Required: true	No
cnbr-wan- prefix	integer	cnbr wan prefix Required: true Maximum: 32 Minimum: 1	No
overlay- cin-vni	integer	overlay cin vni Maximum: 1.6777215e+07 Minimum: 1	No
overlay- l2vpn- mpls-vni	integer	overlay l2vpn mpls vni Maximum: 1.6777215e+07 Minimum: 1	No
overlay- l2vpn- vlan-vni	integer	overlay l2vpn vlan vni Maximum: 1.6777215e+07 Minimum: 1	No
overlay- wan-vni	integer	overlay wan vni Maximum: 1.6777215e+07 Minimum: 1	No

Name	Type	Description	Required
secondary-overlay-l2vpn-mpls-vni	integer	secondary overlay l2vpn mpls vni Maximum: 1.6777215e+07 Minimum: 1	No
secondary-overlay-l2vpn-vlan-vni	integer	secondary overlay l2vpn vlan vni Maximum: 1.6777215e+07 Minimum: 1	No
secondary-sp-router-loopback-ip	string	secondary sp router loopback ip	No
secondary-sp-router-wan-ip	string	secondary sp router wan ip	No
sp-router-loopback-ip	string	sp router loopback ip Required: true	No
sp-router-wan-ip	string	sp router wan ip Required: true	No

models.Packetcable

Name	Type	Description	Required
copsAddrIp	string	cops addr Ip	No
copsGwIp	string	cops gw Ip	No
pcEnable	boolean	pc enable	No
pcMaxGate	integer	pc max gate Maximum: 51200 Minimum: 1	No
sendSubscriberEnable	boolean	send subscriber enable	No
t0Timer	integer	t0 timer Maximum: 1e+09 Minimum: 1	No
t1Timer	integer	t1 timer Maximum: 1e+09 Minimum: 1	No

models.PfgActive

Name	Type	Description	Required
cm_ds	integer	cm ds Minimum: -1	No
cm_us	integer	cm us Minimum: -1	No
host_ds	integer	host ds Minimum: -1	No
host_us	integer	host us Minimum: -1	No
mta_ds	integer	mta ds Minimum: -1	No
mta_us	integer	mta us Minimum: -1	No

Name	Type	Description	Required
ps_ds	integer	ps ds Minimum: -1	No
ps_us	integer	ps us Minimum: -1	No
stb_ds	integer	stb ds Minimum: -1	No
stb_us	integer	stb us Minimum: -1	No

models.PfgGroup

Name	Type	Description	Required
grpList	[models.PfgGrpList]	grp list	No

models.PfgGrpList

Name	Type	Description	Required
id	integer	id	No
ruleList	[models.PfgRuleList]	rule list	No

models.PfgRuleList

Name	Type	Description	Required
dstIp	string	dst Ip	No
dstIpPrefixLen	integer	dst Ip prefix len Maximum: 128 Minimum: -1	No
dstportOrIcmpcodeFirst	integer	dstport or icmpcode first Minimum: -1	No
dstportOrIcmpcodeLast	integer	dstport or icmpcode last Minimum: -1	No
isIpv6	integer	is Ipv6 Maximum: 1 Minimum: 0	No
isPermit	integer	is permit Maximum: 1 Minimum: 0	No
proto	integer	proto Minimum: -1	No
srcIp	string	src Ip	No
srcIpPrefixLen	integer	src Ip prefix len Maximum: 128 Minimum: -1	No
srcportOrIcmpcodeFirst	integer	srcport or icmpcode first Minimum: -1	No
srcportOrIcmpcodeLast	integer	srcport or icmpcode last Minimum: -1	No
tcpFlagsMask	integer	tcp flags mask Minimum: -1	No
tcpFlagsValue	integer	tcp flags value Minimum: -1	No
tosMask	integer	tos mask Minimum: -1	No
tosValue	integer	tos value Minimum: -1	No

models.PreEqualizationExcludeCfg

Name	Type	Description	Required
address	string	address Pattern: $([0-9a-fA-F]{2}[-]){2}[0-9a-fA-F]{2} ([0-9a-fA-F]{2}[-]){5}[0-9a-fA-F]{2} ([0-9a-fA-F]{4}\.){2}[0-9a-fA-F]{4}$$	No

models.PreEqualizationExcludeCfgs

Name	Type	Description	Required
models.PreEqualizationExcludeCfgs	array		

models.PrivacyCfg

Name	Type	Description	Required
AcceptSelfSignCert	boolean	accept self sign cert	No
BpiPlusPolicy	string	bpi plus policy Enum: [capable-enforcement d11-enabled-enforcement d11-enforcement total-enforcement]	No
DsxSupport	boolean	dsx support	No
EaePolicy	string	eae policy Enum: [capability-enforcement disable-enforcement ranging-enforcement total-enforcement]	No
Kek	models.PrivacyKek	kek	No
Mandatory	boolean	mandatory	No
OaepSupport	boolean	oaep support	No
RetainFailedCert	boolean	retain failed cert	No
SkipValidityPeriod	boolean	skip validity period	No
Tek	models.PrivacyTek	tek	No

models.PrivacyKekTimeout

Name	Type	Description	Required
GraceTime	integer	grace time Maximum: 302400 Minimum: 300	No
LifeTime	integer	life time Maximum: 6.048e+06 Minimum: 86400	No

models.PrivacyTekTimeout

Name	Type	Description	Required
GraceTime	integer	grace time Maximum: 302399 Minimum: 300	No
LifeTime	integer	life time Maximum: 604800 Minimum: 1800	No

models.Profentries

Name	Type	Description	Required
byteInterleaverBlockSize	integer	byte interleaver block size	No
byteInterleaverDepth	integer	byte interleaver depth	No
channelType	string	channel type	No
differentialEncoding	boolean	differential encoding	No
fecCodewordLength	integer	fec codeword length	No
fecErrorCorrection	integer	fec error correction	No
guardTimeSize	integer	guard time size Maximum: 255 Minimum: 0	No
lastCodewordShortened	boolean	last codeword shortened	No
maxBurstSize	integer	max burst size	No
modulation	string	modulation Enum: [qpsk qam8 qam16 qam32 qam64 qam128]	No
preamble	string	preamble	No
preambleLength	integer	preamble length	No
scrambler	boolean	scrambler	No
scramblerSeed	integer	scrambler seed	No
tcmErrorCorrectionOn	boolean	tcm error correction on	No

models.Ptp

Name	Type	Description	Required
PtpDomain	integer	ptp domain Maximum: 127 Minimum: 0	No
PtpDscp	integer	ptp dscp Maximum: 63 Minimum: 0	No
PtpGwIp	string	ptp gw Ip Required: true	No
PtpGwIpAlt	string	ptp gw Ip alt	No
PtpMasterIp	string	ptp master Ip Required: true	No
PtpMasterIpAlt	string	ptp master Ip alt	No

models.PtpPort

Name	Type	Description	Required
adminState	string	admin state	No
annCReceiptTimeout	integer	annc receipt timeout	No
cos	integer	cos	No

Name	Type	Description	Required
dscp	integer	dscp	No
enetPortIndex	integer	enet port index	No
gateway	string	gateway	No
gatewayAlt	string	gateway alt	No
localPriority	integer	local priority Maximum: 255 Minimum: 0	No
logAnncInterval	integer	log annc interval	No
logDelayReqInterval	integer	log delay req interval	No
logSyncInterval	integer	log sync interval	No
masterAddr	string	master addr	No
masterAddrAlt	string	master addr alt	No
masterAdminState	string	master admin state	No
preferAlternate	boolean	prefer alternate	No
ptpPortIndex	integer	ptp port index	No
unicastDuration	integer	unicast duration	No

models.RCPChan

Name	Type	Description	Required
CenterFreqAssign	integer	center freq assign Maximum: 4.294967295e+09 Minimum: 0 Multiple Of: 62500	No
ConnectedOffset	integer	connected offset Maximum: 255 Minimum: 0	No
Connectivity	string	connectivity Pattern: ^([0-1]*)\$	No
Index	integer	index Maximum: 255 Minimum: 0	No
PrimDSChanIndicator	boolean	prim d s chan indicator	No

models.RCPModule

Name	Type	Description	Required
AdjChannels	integer	adj channels	No
ChanBlockRange	models.RCPChanBlockRange	chan block range	No
CommonPhyLayerPara	string	common phy layer para Pattern: ^([0-1]*)\$	No
Connectivity	string	connectivity Pattern: ^([0-1]*)\$	No
FirstChanCenterFreqAssign	integer	first chan center freq assign Maximum: 4.294967295e+09 Minimum: 0 Multiple Of: 62500	No

Name	Type	Description	Required
Index	integer	index Maximum: 255 Minimum: 1	No
ResequChanSubCap	boolean	resequ chan sub capability Pattern: ^([0]{1}[0-1]*)\$	No

models.RCPModuleChanBlockRange

Name	Type	Description	Required
MaxCenterFrequency	integer	max center frequency Maximum: 1002 Minimum: 999	No
MinCenterFrequency	integer	min center frequency Maximum: 112 Minimum: 111	No

models.RangeSubcarrier

Name	Type	Description	Required
freqAbs	integer	freq abs Maximum: 1.218e+09 Minimum: 1.08e+08	No
width	integer	width Maximum: 1.92e+08 Minimum: 25000	No

models.RateLimitCfg

Name	Type	Description	Required
BurstTimeMs	integer	burst time ms Maximum: 8000 Minimum: 1000	No
RatePer4Sec	integer	rate per4 sec Required: true Maximum: 255 Minimum: 1	No

models.RcpCfg

Name	Type	Description	Required
CenterFrequencySpacingMHz	integer	center frequency spacing m hz Enum: [6 8]	No
RCP-ID	string	r c p ID Required: true Pattern: ^([0]{1}[x]{1}[a-fA- F0-9]{10})\$	No
RCPName	string	r c p name Required: true Max Length: 15 Min Length: 1	No

Name	Type	Description	Required
ReceiveChannels	models.RCPChannels	receive channels	Required: true
ReceiveModEncoding	models.RCPModule	receive mod encoding	No

models.RcpCfgs

Name	Type	Description	Required
models.RcpCfgs	array		

models.RfDsPort

Name	Type	Description	Required
adminState	string	admin state	No
basePower	integer	base power	Maximum: 61 Minimum: 20
channel	[integer]	channel	No
maxOfdmSpectrum	integer	max ofdm spectrum	No
ofdmFreqExclBand	[models.OfdmFreqExclBand]	ofdm freq excl band	No
portId	integer	port Id	No
rfMute	boolean	rf mute	No

models.RfFiberNode

Name	Type	Description	Required
dsPort	[integer]	ds port	No
fnId	integer	fn Id	No
usPort	[integer]	us port	No

models.RfUsPort

Name	Type	Description	Required
channel	[integer]	channel	No
ofdmaFreqExclBand	[models.OfdmaFreqPortBand]	ofdma freq excl band	No
ofdmaFreqUnusedBand	[models.OfdmaFreqPortBand]	ofdma freq unused band	No
portId	integer	port Id	No

models.Rip

Name	Type	Description	Required
flushTimer	integer	flush timer	No
holddownTimer	integer	holddown timer	No
invalidTimer	integer	invalid timer	No
ripEnable	boolean	rip enable	No
ripPassiveMode	boolean	rip passive mode	No
updateTimer	integer	update timer	No

models.RngSgCfg

Name	Type	Description	Required
extPower	boolean	ext power	No
maxChannelPowerOffset	integer	max channel power offset Maximum: 12 Minimum: 0	No
powerAdjust	integer	power adjust Maximum: 6 Minimum: -3	No
rangingInitTechnique	string	ranging init technique Enum: [reInitMAC broadcast unicast ranging directUse]	No
rangingInterval	integer	ranging interval Maximum: 30000 Minimum: 20000	No
reduceTansmitChannelSet	boolean	reduce tansmit channel set	No
t4Multiplier	integer	t4 multiplier Maximum: 10 Minimum: 0	No

models.RpdCfg

Name	Type	Description	Required
idInSg	integer	id in sg	No
netDelayCfg	models.NetworkDelayCfg	net delay cfg	No
rfTopology	models.RpdRfTopology	rf topology	No
rpdlp	string	rpdlp	No
rpdlLocation	models.RpdLocation	rpdl location	No
rpdlMac	string	rpdl mac	No
rpdlName	string	rpdl name Max Length: 256	No

models.RpdLocation

Name	Type	Description	Required
address	string	address	No
city	string	city	No
latitude	number	latitude	No
longitude	number	longitude	No
neighborhood	string	neighborhood	No
region	string	region	No

models.RpdMultiCoreCfg

Name	Type	Description	Required
models.RpdMultiCoreCfg	array		

models.RpdMultiCoreItem

Name	Type	Description	Required
coreip	string	coreip	No
description	string	description	No

models.RpdPtpCfg

Name	Type	Description	Required
domain	integer	domain	No
dtiMode	string	dti mode Enum: [SlaveDtiMode MasterDtiMode]	No
priority1	integer	priority1 Maximum: 255 Minimum: 0	No
priority2	integer	priority2 Maximum: 255 Minimum: 0	No
ptpClkProfileId	string	ptp clk profile Id	No
ptpPortCfg	[models.PtpPort]	ptp port cfg	No

models.RpdRfTopology

Name	Type	Description	Required
dsPort	[models.RfDsPort]	ds port	No
fiberNode	[models.RfFiberNode]	fiber node	No
usPort	[models.RfUsPort]	us port	No

models.RpdSsdCfg

Name	Type	Description	Required
ccvc	string	ccvc Max Length: 5000 Min Length: 1	No
filename	string	filename Max Length: 128 Min Length: 1	No
ip	string	ip	No
mvc	string	mvc Max Length: 5000 Min Length: 1	No
proto	integer	proto Enum: [1 2]	No

models.RpdTelemetryCfg

Name	Type	Description	Required
interval	integer	interval Maximum: 60 Minimum: 0	No
transport	string	transport Enum: [gRPC]	No

models.RpdUtscCfg

Name	Type	Description	Required
UseCommand	integer	use command Enum: [1 2]	No
UseConfig	models.UscConfig	use config	No
UseSacIndex	integer	use sac index Required: true Maximum: 255 Minimum: 0	No
UseStatus	integer	use status	No

models.Sav

Name	Type	Description	Required
savEnable	boolean	sav enable	No
savEntries	[models.SavGroupStruct]	sav entries	No

models.SavGroupStruct

Name	Type	Description	Required
grpName	string	grp name Max Length: 16 Min Length: 1	No
prefixes	[string]	prefixes Max Length: 4	No

models.SbrlCfg

Name	Type	Description	Required
subMacAddrSbrlList	models.SubMacAddrSbrlList	sub mac addr sbrl list	No

models.Sg

Name	Type	Description	Required
cnBRName	string	cn b r name	No
depiFragment	boolean	depi fragment	No
description	string	description Required: true	No
dhcp	models.Dhcp	dhcp	No
ds	models.DsCfgs	ds Required: true	No
dsResilCfg	models.DsResilCfg	ds resil cfg	No
dsg	models.DsgCfgs	dsg	No
dsmtu	integer	dsmtu Required: true	No
layer3Cfg	models.Layer3Cfg	layer3 cfg	No
mapCtrl	models.MapCtrl	map ctrl	No
md	models.MdCfgs	md Required: true	No
modProfs	models.ModProfCfgs	mod profs Required: true	No
ofdmDs	models.OfdmDsCfgs	ofdm ds	No
ofdmModProfs	models.OfdmModProfCfgs	ofdm mod profs	No
ofdmProfMgmt	models.OfdmProfMgmt	ofdm prof mgmt	No
ofdmaUs	models.OfdmaUsCfgs	ofdma us	No
ofdmaUsModProfs	models.OfdmaUsModProfCfgs	ofdma us mod profs	No
preEqualizationExcludePreEqualizationCdfg	models.PreEqualizationExcludePreEqualizationCdfg	pre equalization exclude pre equalization cdfg	No
privacy	models.Privacy	privacy	No
punt	models.IepiCfunt	punt	No
rep	models.RcpCfgs	rep	No
rpdcfg	models.RpdCfg	rpdcfg Required: true	No
rpdmultiCoreCfg	models.RpdMultiCoreCfg	rpdmulti core cfg	No
rpdpTpcfg	models.RpdPtpCfg	rpdp tpcfg Required: true	No
rpdsdCfg	models.RpdSsdCfg	rpdsd cfg	No
rpdtlemetryCfg	models.RpdTelemetryCfg	rpdtlemetry cfg	No
rpduTscCfg	models.RpdUtscCfg	rpduTsc cfg	No
sgName	string	sg name Required: true Max Length: 128 Pattern: ¹ ([A-Za-z0-9] [A-Za-z0-9-]{0,61}[A-Za-z0-9])?(\.A-Za-z?)*\$	No
sgWeight	number	sg weight	No
specsvl	boolean	specsvl	No
subMacAddrSbrlList	models.SbrlList	sub mac addr sbrl	No
svcds	models.SvcDsCfgs	svcds	No

Name	Type	Description	Required
svcus	models.SvcUsCfgs	svcus	No
txPowerHeadroom	models.TxPowerHeadroom	txPowerHeadroom	No
us	models.UsCfgs	us Required: true	No
usmtu	integer	usmtu Required: true	No

models.SpRouter

Name	Type	Description	Required
bgp-peer	string	bgp peer	Required: true No
cin-gateway	string	cin gateway	No
ptp-gateway	string	ptp gateway	No
ptp-gateway-alt	string	ptp gateway alt	No
router-id	string	router id	Required: true No
rpdp-tp-gateway	string	rpdp ptp gateway	No
sg-peer	string	sg peer	Required: true No

models.Spr

Name	Type	Description	Required
sp-router-redundancy-mode	string	sp router redundancy mode Enum: [active-standby active-active]	No
sp-routers	[models.SpRouter]	sp routers	Required: true No

models.Sprstat

Name	Type	Description	Required
bgpAsn	integer	bgp asn	No
routerId	string	router Id Max Length: 255 Min Length: 1	No
state	string	state Enum: [Up Down]	No

models.SubMacAddrSbrlList

¹A-Za-z

Name	Type	Description	Required
PuntCause	string	punt cause Required: true Enum: [dhcpv4_us dhcpv6_us cable_arp_req cable_arp_reply ndp svfy_v4 svfy_v6 ds_lq_v4 ds_lq_v6 mobility_v4 mobility_v6 tftp_req ds_no_adj_v4 ds_no_adj_v6]	No
RateLimitCfg	models.RateLimitCfg	Rate limit cfg Required: true	No

models.SvcDsCfg

Name	Type	Description	Required
attrAggreRuleMask	integer	attr aggre rule mask Maximum: 4.294967295e+09 Minimum: 0	No
forbAttrMask	integer	forb attr mask Maximum: 4.294967295e+09 Minimum: 0	No
iPTypServOvr	integer	i p typ serv ovr Maximum: 63 Minimum: -1	No
maxDsLatcy	integer	max ds latcy Maximum: 4.294967295e+09 Minimum: 0	No
maxSustTrafRate	integer	max sust traf rate Maximum: 4.294967295e+09 Minimum: 0	No
maxTrafBurst	integer	max traf burst Maximum: 4.294967295e+09 Minimum: 1522	No
minRsvdRatePktSize	integer	min rsvd rate pkt size Maximum: 65535 Minimum: 0	No
minRsvdTrafRate	integer	min rsvd traf rate Maximum: 4.294967295e+09 Minimum: 0	No
peakTrafRate	integer	peak traf rate Maximum: 4.294967295e+09 Minimum: 0	No
qoSParaSetType	integer	qo s para set type Enum: [1 2 3 4 5 6 7]	No

Name	Type	Description	Required
requAttrMask	integer	requ attr mask Maximum: 4.294967295e+09 Minimum: 0	No
reseqDisab	boolean	reseq disab	No
servClassName	string	serv class name Required: true Max Length: 15 Min Length: 1	No
tmoutActQoSParam	integer	tmout act qo s param Maximum: 65535 Minimum: 0	No
tmoutAdmQoSParam	integer	tmout adm qo s param Maximum: 65535 Minimum: 0	No
trafPrio	integer	traf prio Maximum: 7 Minimum: 0	No

models.SvcDsCfgs

Name	Type	Description	Required
models.SvcDsCfgs	array		

models.SvcUsCfg

Name	Type	Description	Required
attrAggreRuleMask	integer	attr aggre rule mask Maximum: 4.294967295e+09 Minimum: 0	No
forbAttrMask	integer	forb attr mask Maximum: 4.294967295e+09 Minimum: 0	No
graPerIntvl	integer	gra per intvl Maximum: 127 Minimum: 0	No
iPTypeOfServOvrwri	integer	i p type of serv ovwri Maximum: 63 Minimum: -1	No
maxConcaBurst	integer	max conca burst Maximum: 65535 Minimum: 0	No
maxSustTrafRate	integer	max sust traf rate Maximum: 4.294967295e+09 Minimum: 0	No

Name	Type	Description	Required
maxTrafBurst	integer	max traf burst Maximum: 4.294967295e+09 Minimum: 1522	No
minRsvdRatePktSize	integer	min rsvd rate pkt size Maximum: 65535 Minimum: 0	No
minRsvdTrafRate	integer	min rsvd traf rate Maximum: 4.294967295e+09 Minimum: 0	No
multiConteReqBacWin	integer	multi conte req bac win Maximum: 12 Minimum: 4	No
multiNumBytesRequ	Enum	multi num bytes requ Enum: [1 2 4 8 16]	No
nomGrantIntvl	integer	nom grant intvl Maximum: 4.294967295e+09 Minimum: 0	No
nomPolIntvl	integer	nom pol intvl Maximum: 4.294967295e+09 Minimum: 0	No
peakTrafRate	integer	peak traf rate Maximum: 4.294967295e+09 Minimum: 0	No
qoSParaSetType	integer	qo s para set type Enum: [1 2 3 4 5 6 7]	No
reqTxPolicy	integer	req tx policy	No
requAttrMask	integer	requ attr mask Maximum: 4.294967295e+09 Minimum: 0	No
servClassName	string	serv class name Required: true Max Length: 15 Min Length: 1	No
servFlowSchedType	integer	serv flow sched type Required: true Maximum: 6 Minimum: 0	No
tmoutActQoSParam	integer	tmout act qo s param Maximum: 65535 Minimum: 0	No
tmoutAdmQoSParam	integer	tmout adm qo s param Maximum: 65535 Minimum: 0	No
toleGrantJit	integer	tole grant jit Maximum: 4.294967295e+09 Minimum: 0	No

Name	Type	Description	Required
tolePollJit	integer	tole poll jit Maximum: 4.294967295e+09 Minimum: 0	No
trafPrio	integer	traf prio Maximum: 7 Minimum: 0	No
ugsGrantSize	integer	ugs grant size Maximum: 65535 Minimum: 0	No
ugsGrantTimeRef	integer	ugs grant time ref Enum: [0 1 2 3 4 294 967 295]	No

models.SvcUsCfgs

Name	Type	Description	Required
models.SvcUsCfgs	array		

models.TftpProxy

Name	Type	Description	Required
secondaryv4Gw	string	secondaryv4 gw	No
secondaryv6Gw	string	secondaryv6 gw	No
v4Gw	string	v4 gw	No
v6Gw	string	v6 gw	No

models.TxPowerHeadroomCfg

Name	Type	Description	Required
oui	string	oui Pattern: ^([0-9a-fA-F]{2}[:-]){2}[0-9a-fA-F]{2}\$	No
power	integer	power Maximum: 6 Minimum: 1	No

models.TxPowerHeadroomCfgs

Name	Type	Description	Required
models.TxPowerHeadroomCfgs	array		

models.UsCfg

Name	Type	Description	Required
adminState	string	admin state	No
attributeMask	integer	attribute mask Maximum: 4.294967295e+09 Minimum: 0	No
channelWidth	integer	channel width	No
docsisMode	string	docsis mode Enum: [tdma atdma tdma_atdma]	No
equalizationCoeffEnable	boolean	equalization coeff enable	No
equalizationErrorRecovery	boolean	equalization error recovery	No
freqAdjustAveraging	integer	freq adjust averaging Maximum: 100 Minimum: 10	No
frequency	integer	frequency Maximum: 8.5e+07 Minimum: 5e+06	No
idInSg	integer	id in sg Required: true	No
ingressNoiseCancelEnable	boolean	ingress noise cancel enable	No
modulation	integer	modulation	No
powerAdjustContinue	integer	power adjust continue Maximum: 15 Minimum: 2	No
powerAdjustNoise	integer	power adjust noise Maximum: 100 Minimum: 10	No
powerAdjustThreshold	integer	power adjust threshold Maximum: 10 Minimum: 0	No
powerLevel	integer	power level Maximum: 23 Minimum: -7	No
powerLevelAdjust	integer	power level adjust	No
slotSize	integer	slot size	No

models.UsCfgs

Name	Type	Description	Required
models.UsCfgs	array		

models.UsCConfig

Name	Type	Description	Required
ScCfgAggregationMode	integer	sc cfg aggregation mode	No
ScCfgAggregationPeriod	integer	sc cfg aggregation period	No
ScCfgAveraging	integer	sc cfg averaging	No
ScCfgCenterFreq	integer	sc cfg center freq	No

Name	Type	Description	Required
ScCfgNumBins	integer	sc cfg num bins	No
ScCfgOutputFormat	integer	sc cfg output format	No
ScCfgPortEnd	integer	sc cfg port end	No
ScCfgPortStart	integer	sc cfg port start	No
ScCfgQualifyBw	integer	sc cfg qualify bw	No
ScCfgQualifyCenterFreq	integer	sc cfg qualify center freq	No
ScCfgQualifyThreshold	integer	sc cfg qualify threshold	No
ScCfgRepeatPeriod	integer	sc cfg repeat period	No
ScCfgRunDuration	integer	sc cfg run duration	No
ScCfgSpan	integer	sc cfg span	No
ScCfgTrigChannelIndex	integer	sc cfg trig channel index Maximum: 255 Minimum: 0	No
ScCfgTrigChannelType	integer	sc cfg trig channel type Enum: [1 2]	No
ScCfgTrigIuc	integer	sc cfg trig iuc	No
ScCfgTrigMinislotCount	integer	sc cfg trig minislot count	No
ScCfgTrigMode	integer	sc cfg trig mode Enum: [1 2 3 4 5 6 7 8 9]	No
ScCfgTrigSid	integer	sc cfg trig sid	No
ScCfgTrigTimestamp	integer	sc cfg trig timestamp Max Length: 8 Min Length: 1	No
ScCfgTriggerCount	integer	sc cfg trigger count	No
ScCfgWindow	integer	sc cfg window	No

models.VendorCfg

Name	Type	Description	Required
id	integer	id	No
oui	string	oui	No
value	string	value	No

models.Wiring

Name	Type	Description	Required
cluster-type	string	cluster type Enum: [SNSI_NORM AIO_RM MUL_NODES]	Required: true No
l3-info	models.WiringL3Info	l3-info	Required: true No
mtu	integer	mtu	No

Name	Type	Description	Required
number-of-docsis-node	integer	number of docsis node	No
overlay-info	models.OverlayInfo	overlay info	Required: true No

models.WiringL3Info

Name	Type	Description	Required
bgp-agent-if-ipv4	[string]	bgp agent if ipv4	Required: true No
bgp-agent-if-ipv6	[string]	bgp agent if ipv6	Required: true No
cin-ipv4-prefix	integer	cin ipv4 prefix	Maximum: 32 Minimum: 1 No
cin-ipv6-prefix	integer	cin ipv6 prefix	Maximum: 128 Minimum: 1 No
cmts-cops-if-ipv4	[string]	cmts cops if ipv4	No
cmts-cops-if-ipv6	[string]	cmts cops if ipv6	No
dc-link-ipv4-prefix	integer	dc link ipv4 prefix	Required: true Maximum: 32 Minimum: 1 No
dc-link-ipv6-prefix	integer	dc link ipv6 prefix	Required: true Maximum: 128 Minimum: 1 No
dmic-if-ipv4	[string]	dmic if ipv4	Required: true No
dmic-if-ipv6	[string]	dmic if ipv6	Required: true No
ptp-if-ipv4	[string]	ptp if ipv4	No
ptp-if-ipv6	[string]	ptp if ipv6	No
ptp-mac-addr	[string]	ptp mac addr	Required: true No
relayproxy-if-ipv4	[string]	relayproxy if ipv4	Required: true No
relayproxy-if-ipv6	[string]	relayproxy if ipv6	Required: true No
rphmgr-if-ipv4	[string]	rphmgr if ipv4	No

Name	Type	Description	Required
rphmgr-if- ipv6	[string]	rphmgr if ipv6	No
vpp-dp- rpd-if- ipv4	[string]	vpp dp rpd if ipv4	No
vpp-dp- rpd-if- ipv6	[string]	vpp dp rpd if ipv6	No

Operations Hub RPD/SG Operation API

Version: 1.0

License: [Apache 2.0](#)

/loglevel

GET

Summary Get Current LogLevel

Description Get Current LogLevel

Responses

Code	Description	Schema
200	OK	rpd_operation.LogLevel

PUT

Summary Set LogLevel

Description Set LogLevel

Parameters

Name	Located in	Description	Required	Schema
LogLevel	body	Log Level	Yes	rpd_operation.LogLevel

Responses

Code	Description	Schema
200	OK	rpd_operation.LogLevel

/v1/hashelf/reload**POST**

Summary Reboot HA Shelf's line card or whole chassis

Description reboot HA Shelf's line card or HAShelf chassis

Parameters

Name	Located in	Description	Required	Schema
rpd-id	query	This rpd id is the primary RPD in the shelf	Yes	string
slot-number	query	slot number is the HAShelf's Line card number, from 0 to 12. If slot-number is set as -1, it means to reboot the whole chassis	Yes	string
cluster-id	query	id designating a cnBR cluster	Yes	string

Responses

Code	Description	Schema
202	Accepted UTSC start request	string
400	Could be malformed or incorrect query parameters	string
500	Internal Server Error	string

/v1/if-index**GET**

Summary Get ifindex for all US ports

Description Get ifindex for all US ports, it is for snmp

Responses

Code	Description	Schema
200	OK	main.IffIndexTable
400	Bad Request	string
500	Internal Server Error	string

/v1/pnm-session

GET

Summary Get PNM Session configuration

Description Get Proactive Network Maintenance(PNM) Session Configuration

Parameters

Name	Located in	Description	Required	Schema
cluster-id	query	id designating a cnBR cluster	Yes	string

Responses

Code	Description	Schema
200	OK	main.PnmSessionForUser
400	Bad Request	string
500	Internal Server Error	string

PUT

Summary Config PNM session

Description Configure Proactive Network Maintenance(PNM) Session

Parameters

Name	Located in	Description	Required	Schema
cluster-id	query	id designating a cnBR cluster	Yes	string
Configuration	body	PNM Session Configuration	Yes	main.PnmSessionForUser

Responses

Code	Description	Schema
202	Accepted configuring pnm session request	string
400	Could be malformed or incorrect query parameters	string
500	Internal Server Error	string

/v1/rpd/cvc**GET**

Summary Get RPD CVC page

Description Get RPD CVC page

Responses

Code	Description	Schema
200	OK	string

POST

Summary Upload RPD CVC

Description Upload RPD CVC

Parameters

Name	Located in	Description	Required	Schema
cvc-name	formData	cvc name	Yes	string
cvc-txt	formData	cvc txt	Yes	string

Responses

Code	Description	Schema
200	OK	string

/v1/rpd/cvc/{cvc-name}**DELETE****Summary** Delete RPD CVC**Description** Delete RPD CVC**Parameters**

Name	Located in	Description	Required	Schema
cvc-name	path	RPD CVC name	Yes	string

Responses

Code	Description	Schema
200	OK	string

/v1/rpd/image**GET****Summary** Get RPD image page**Description** Get RPD image page**Responses**

Code	Description	Schema
200	OK	string

POST**Summary** Upload RPD image**Description** Upload RPD image**Parameters**

Name	Located in	Description	Required	Schema
file	formData	RPD image file	Yes	file

Responses

Code	Description	Schema
200	OK	string

/v1/rpd/image/{filename}

DELETE

Summary Delete RPD image

Description Delete RPD image

Parameters

Name	Located in	Description	Required	Schema
filename	path	RPD image file name	Yes	string

Responses

Code	Description	Schema
200	OK	string

/v1/rpd/overview

GET

Summary Get RPD overview page

Description Get RPD overview page

Responses

Code	Description	Schema
200	OK	string

/v1/rpd/ssd

GET

Summary Get RPD SSD page

Description Get RPD SSD page

Responses

Code	Description	Schema
200	OK	string

POST

Summary Trigger RPD SSD

Description Trigger RPD SSD

Parameters

Name	Located in	Description	Required	Schema
rpd-id	query	rpd id	Yes	string
cluster-id	query	cluster id	Yes	string
ssd_payload	formData	{'address':'ip address', 'ip': 'ip address', 'proto':1, 'filename':'rpd file name', 'cvvc':'', 'mcvc':''}	Yes	string
sg_id	formData	sg id	Yes	string
next_boot	formData	true or false	Yes	string

Responses

Code	Description	Schema
200	OK	string

/v1/rpd/ssd-state

GET

Summary Get RPD SSD state

Description Get RPD SSD state

Responses

Code	Description	Schema
200	OK	string

/v1/rpd/upgrade/{image}

POST

Summary Trigger RPD SSD

Description Trigger RPD SSD

Parameters

Name	Located in	Description	Required	Schema
image	path	image name	Yes	string
rpd	formData	rpd id	Yes	string
next_boot	formData	true or false	Yes	string

Responses

Code	Description	Schema
200	OK	string

/v1/sg/config/canary

POST

Summary SG config canary upgrade

Description SG config canary upgrade

Parameters

Name	Located in	Description	Required	Schema
CanaryParams	body	Canary params	Yes	sg_cfg_canary.RequestBody

Responses

Code	Description	Schema
202	Accepted	sg_cfg_canary.Result
400	Bad Request	sg_cfg_canary.Error

/v1/sg/config/canary/transactions

GET

Summary Get all transactions

Description Get all transaction ids

Responses

Code	Description	Schema
200	OK	[string]
404	Not Found	sg_cfg_canary.Error

/v1/sg/config/canary/transactions/active

GET

Summary Get active canary transactions

Description Get active canary transactions

Responses

Code	Description	Schema
200	OK	[sg_cfg_canary.CanaryTransaction]
404	Not Found	sg_cfg_canary.Error

/v1/sg/config/canary/transactions/{transaction-id}

GET

Summary Get specific canary transaction status

Description Get the status of specific canary transaction

Parameters

Name	Located in	Description	Required	Schema
transaction-id	path	transaction-id	Yes	string

Responses

Code	Description	Schema
200	OK	sg_cfg_canary.CanaryTransaction
404	Not Found	sg_cfg_canary.Error

/v1/sg/config/canary/transactions/{transaction-id}/revert-canary

POST

Summary Revertback canary SGs' config

Description Revertback configuration of canary service groups

Parameters

Name	Located in	Description	Required	Schema
transaction-id	path	transaction-id	Yes	string

Responses

Code	Description	Schema
202	Accepted	sg_cfg_canary.Result
400	Bad Request	sg_cfg_canary.Error

/v1/sg/config/canary/transactions/{transaction-id}/upgrade-all

POST

Summary Upgrade all SGs of previous canary transactions

Description Upgrade all service groups of previous canary transactions

Parameters

Name	Located in	Description	Required	Schema
transaction-id	path	transaction-id	Yes	string

Responses

Code	Description	Schema
202	Accepted	sg_cfg_canary.Result
400	Bad Request	sg_cfg_canary.Error

/v1/sg/{cmts-id}/{sg-name}

PUT

Summary Update/RMA SG

Description Trigger Update,RMA existing SG

Parameters

Name	Located in	Description	Required	Schema
cmts-id	path	cmts-id	Yes	string
sg-name	path	sg-name	Yes	string
sg-config	body	SG Configuration	Yes	rpd_operation.SgConfig

Responses

Code	Description	Schema
202	Accepted	rpd_operation.Result
400	Bad Request	rpd_operation.Error

POST

Summary SG Adding

Description Trigger Adding new SG

Parameters

Name	Located in	Description	Required	Schema
cmts-id	path	cmt-id	Yes	string
sg-name	path	sg-name	Yes	string
sg-config	body	SG Configuration	Yes	rpd_operation.SgConfig

Responses

Code	Description	Schema
202	Accepted	rpd_operation.Result
400	Bad Request	rpd_operation.Error

DELETE

Summary Delete SG

Description Trigger Deleting existing SG

Parameters

Name	Located in	Description	Required	Schema
cmts-id	path	cmts-id	Yes	string
sg-name	path	sg-name	Yes	string

Responses

Code	Description	Schema
202	Accepted	rpd_operation.Result

/v1/sg/{cmts-id}/{sg-name}/requests

GET

Summary SG Operation history

Description Trigger SG Operation query

Parameters

Name	Located in	Description	Required	Schema
cmts-id	path	cmts-id	Yes	string
sg-name	path	sg-name	Yes	string

Responses

Code	Description	Schema
200	OK	[rpd_operation.restTransactionTable]
400	Bad Request	rpd_operation.Error

/v1/sg/{cmts-id}/{sg-name}/status

GET

Summary SG and Operation status

Description Trigger SG status query

Parameters

Name	Located in	Description	Required	Schema
cmts-id	path	cmts-id	Yes	string
sg-name	path	sg-name	Yes	string

Responses

Code	Description	Schema
200	OK	rpd_operation.Status

/v1/sg/{transaction-id}/status

GET

Summary SG Operation Trans status

Description Get the status of SG Operation

Parameters

Name	Located in	Description	Required	Schema
transaction-id	path	transaction-id	Yes	string

Responses

Code	Description	Schema
200	OK	rpd_operation.restTransactionTable
400	Bad Request	rpd_operation.Error

/v1/shelf/group-information**GET**

Summary Get Shelf group info

Description Get 1RU/HA Shelf group information for all RPDs

Parameters

Name	Located in	Description	Required	Schema
cluster-id	query	id designating a cnBR cluster	Yes	string

Responses

Code	Description	Schema
200	OK	[main.ShelfEntry]

/v1/shelf/platform-information/{parameter}**GET**

Summary Get Shelf Platform Information details

Description Get detailed information about the 1RU/HA shelf including alarm, fan, power, eeprom

Parameters

Name	Located in	Description	Required	Schema
parameterpath		Choose between: [alarm,fan,power,sensors,eprom- fanio,eprom- psio,eprom-psu]	Yes	string
rpd-id	query	rpd id	Yes	string
cluster- id	query	id designating a cnBR cluster	Yes	string

Responses

Code	Description	Schema
200	OK	main.UtscConfigForUser
500	Internal Server Error	string

/v1/shelf/request-output/{parameter}

POST

Summary Post Shelf Platform Information details

Description request the platform information output of 1RU/HA shelf for type like alarm, fan, power, eeprom

Parameters

Name	Located in	Description	Required	Schema
parameterpath		Choose between: [alarm,fan,power,sensors,eprom- fanio,eprom- psio,eprom-psu]	Yes	string
rpd-id	query	rpd id	Yes	string
cluster- id	query	id designating a cnBR cluster	Yes	string

Responses

Code	Description	Schema
202	Accepted UTSC start request	string
400	Could be malformed or incorrect query parameters	string
500	Internal Server Error	string

/v1/utsc**GET****Summary** Get UTSC configuration**Description** Get UTSC(Upstream Triggered Spectrum Capture) configuration**Parameters**

Name	Located in	Description	Required	Schema
cluster-id	query	id designating a cnBR cluster	Yes	string
sg-id	query	id designating a Service Group	Yes	string

Responses

Code	Description	Schema
200	OK	main.UtscConfigForUser
400	Could be malformed or incorrect query parameters	string
404	Not found UTSC entry	string
500	Internal Server Error	string

DELETE**Summary** Remove UTSC Configuration**Description** Remove UTSC(Upstream Triggered Spectrum Capture) Configuration**Parameters**

Name	Located in	Description	Required	Schema
cluster-id	query	id designating a cnBR cluster	Yes	string
sg-id	query	id designating a service group	Yes	string

Responses

Code	Description	Schema
202	Accepted removing UTSC configuration request	string
400	Could be malformed or incorrect query parameters	string
404	Not found UTSC entry	string

Code	Description	Schema
500	Internal Server Error	string

/v1/utsc-status

GET

Summary Get UTSC Status

Description Get UTSC(Upstream Triggered Spectrum Capture) Status

Parameters

Name	Located in	Description	Required	Schema
cluster-id	query	id designating a cnBR cluster	Yes	string
sg-id	query	id designating a service group	Yes	string

Responses

Code	Description	Schema
200	OK	main.UtscStatusForUser
404	Not found UTSC status	string
500	Internal Server Error	string

/v1/utsc/start

POST

Summary Start UTSC with configuration

Description Start Upstream Triggered Spectrum Capture(UTSC) for wide-band spectrum analysis.

Parameters

Name	Located in	Description	Required	Schema
cluster-id	query	id designating a cnBR cluster	Yes	string
sg-id	query	id designating a service group	Yes	string
Configuration	body	UTSC Configuration	Yes	main.UtscConfigForUser

Responses

Code	Description	Schema
202	Accepted UTSC start request	string
400	Could be malformed or incorrect query parameters	string
500	Internal Server Error	string

/v1/utsc/stop

PUT

Summary Stop UTSC

Description Stop UTSC(Upstream Triggered Spectrum Capture)

Parameters

Name	Located in	Description	Required	Schema
cluster-id	query	id designating a cnBR cluster	Yes	string
sg-id	query	id designating a service group	Yes	string

Responses

Code	Description	Schema
202	Accepted UTSC stop request	string
400	Could be malformed or incorrect query parameters	string
404	Not found UTSC entry	string
500	Internal Server Error	string

Models

main.IfIndexTable

Name	Type	Description	Required
cluster-id	string		No
if-index	integer		No
sg-id	integer		No
us-port	integer		No

main.PnmSessionForUser

Name	Type	Description	Required
pnm-dest-addr	string		No
pnm-dest-path	string		No
pnm-hi-bin-session-id	integer		No
pnm-lo-bin-session-id	integer		No
pnm-upload-control	integer		No

main.ShelfEntry

Name	Type	Description	Required
clusterId	string		No
hostname	string		No
isMaster	boolean		No
rpId	string		No
shelfId	string		No
shelfPid	string		No
shelfSn	string		No
slotId	integer		No

main.UtscConfigForUser

Name	Type	Description	Required
sc-cfg-aggregation-mode	integer		No
sc-cfg-aggregation-period	integer		No
sc-cfg-averaging	integer		No
sc-cfg-center-freq	integer		No
sc-cfg-num-bins	integer		No
sc-cfg-output-format	integer		No
sc-cfg-port-end	integer		No

Name	Type	Description	Required
sc-cfg-port-start	integer	Currently, we don't support cross US ports, we will specify the same value by URL parameter	No
sc-cfg-qualify-bw	integer		No
sc-cfg-qualify-center-freq	integer		No
sc-cfg-qualify-threshold	integer		No
sc-cfg-repeat-period	integer		No
sc-cfg-run-duration	integer		No
sc-cfg-span	integer		No
sc-cfg-trig-channel-index	integer		No
sc-cfg-trig-channel-type	integer		No
sc-cfg-trig-iuc	integer		No
sc-cfg-trig-minislot-count	integer		No
sc-cfg-trig-mode	integer		No
sc-cfg-trig-sid	integer		No
sc-cfg-trig-timestamp	integer		No
sc-cfg-trigger-count	integer		No
sc-cfg-window	integer		No

Name	Type	Description	Required
usc-command	integer		No
usc-sac-index	integer	Currently, we only support 0	No

main.UtscStatusForUser

Name	Type	Description	Required
sc-cfg-port-end	integer		No
sc-cfg-port-start	integer		No
usc-sac-index	integer		No
usc-status	integer		No

rpd_operation.Error

Name	Type	Description	Required
error	string		No

rpd_operation.LogLevel

Name	Type	Description	Required
Log Level	string		No

rpd_operation.Result

Name	Type	Description	Required
transaction-id	string		No

rpd_operation.SgConfig

Name	Type	Description	Required
l3-template	string		No
rpd-ip	string		No
rpd-location	object		No
rpd-mac	string		No
rpd-name	string		No

Name	Type	Description	Required
sg-template	string		No

rpd_operation.Status

Name	Type	Description	Required
status	string		No

rpd_operation.restTransactionTable

Name	Type	Description	Required
cmts-id	string		No
cmts-name	string		No
created-at	string		No
error-info	string		No
l3-template	string		No
last-state-change	string		No
operation	integer		No
rm-task-id	string	SgConfig string json: "SgConfig"	No
rpdcmac	string		No
rpdcmac-new	string		No
sg-id	integer	HostcnBR string json: "HostcnBR" TokencnBR string json: "TokencnBR"	No
sg-info	string		No
sg-name	string		No
sg-template	string		No
state	string		No
transaction-id	string		No

sg_cfg_canary.CanaryTransaction

Name	Type	Description	Required
canary-sg-list	string		No
canary-sg-pre-config	string		No
canary-sg-pre-status	string		No
created-at	string		No
error	string		No
l3-template	string		No
last-state-change	string		No
operation	string		No
pre-transaction	string		No
revert-canary-on-failure	boolean		No
sg-list	string		No
sg-template	string		No
sg-transactions	string		No
state	string		No
transaction	string		No
transaction-name	string		No
upgrade-all-on-success	boolean		No

sg_cfg_canary.CnbrSgs

Name	Type	Description	Required
cmts-id	string		No
sgs	[string]		No

sg_cfg_canary.Error

Name	Type	Description	Required
error	string		No

sg_cfg_canary.RequestBody

Name	Type	Description	Required
canary-sg-list	[sg_cfg_canary.CnbrSgs]		No
l3-template	string		No
revert-canary-on-failure	boolean		No
sg-list	[sg_cfg_canary.CnbrSgs]		No
sg-template	string		No
transaction-name	string		No
upgrade-all-on-success	boolean		No

sg_cfg_canary.Result

Name	Type	Description	Required
transaction	string		No

Operations Hub KPI Alert Management API

Version: 1.0

Security

AuthHeader

apiKey	<i>API Key</i>
Name	Authorization
In	header

/v1/alerts

GET

Summary Get the Alertmanager Alert List

Description Get the list of alerts(“firing” and/or “resolved” status) from the Alertmanager.

Parameters

Name	Located in	Description	Required	Schema
status	query	Filter alerts by status, and if status is empty will return all alerts.	No	string
limit	query	Query limit from DB.	No	integer
offset	query	Query offset from DB.	No	integer

Name	Located in	Description	Required	Schema
sort-by	query	Query sory by the parameter from DB.	No	string
order-by	query	Query order from DB.	No	string

Responses

Code	Description	Schema
200	OK	model.AlertGetEntry

/v1/alerts/groups**GET**

Summary Get the Alertmanager Alert Group List

Description Get the list of alert groups from the Alertmanager

Responses

Code	Description	Schema
200	OK	model.AlertGroupGetInfo

/v1/alerts/groups/{name}**GET**

Summary Get the Alertmanager Alert Group

Description Get one alert group by group name from the Alertmanager

Parameters

Name	Located in	Description	Required	Schema
name	path	Alert Group Name	Yes	string

Responses

Code	Description	Schema
200	OK	model.AlertGroupGetInfo

PUT

Summary Set the Alertmanager Alert Group

Description Set one alert group by group name to the Alertmanager.

Parameters

Name	Located in	Description	Required	Schema
name	path	Alert Group Name	Yes	string
AlertGroup	body	Alert Group Setting	Yes	model.AlertGroupSetInfo

Responses

Code	Description	Schema
200	OK	model.AlertGroupGetInfo
400	Bad Request	string

/v1/alerts/{id}**GET**

Summary Get the Alertmanager Alert

Description Get one alert by alert ID from the Alertmanager.

Parameters

Name	Located in	Description	Required	Schema
id	path	Alert ID	Yes	string

Responses

Code	Description	Schema
200	OK	model.AlertGetInfo

/v1/alerts/{id}/ack**PUT****Summary** Ack the Alertmanager Alert**Description** Ack one alert by alert ID to the Alertmanager.**Parameters**

Name	Located in	Description	Required	Schema
id	path	Alert ID	Yes	string
Alert	body	Alert Ack Information	Yes	model.AlertSetInfo

Responses

Code	Description	Schema
200	OK	model.AlertGetInfo
400	Bad Request	string

/v1/loglevel**GET****Summary** Get Operation Hub KPI Alert Management Log Level;**Description** Get Operation Hub KPI Alert Management Log Level**Responses**

Code	Description	Schema
200	OK	model.LogLevel

PUT**Summary** Set Operations Hub KPI Alert Management Log Level**Description** Set Operations Hub KPI Alert Management Log Level**Parameters**

Name	Located in	Description	Required	Schema
LogLevel	body	Log Level	Yes	model.LogLevel

Responses

Code	Description	Schema
200	OK	model.LogLevel
400	Bad Request	string

/v1/smtp**GET**

Summary Get the Alertmanager SMTP Configuration

Description Get the configuration for SMTP that is used to forward alerts for notifications.

Responses

Code	Description	Schema
200	OK	model.AlertConfigGetInfo

PUT

Summary Set the Alertmanager SMTP Configuration

Description Set the configuration for SMTP so that alertmanager can forward alerts for notifications through the configured SMTP server.

Parameters

Name	Located in	Description	Required	Schema
Config	body	Alertmanager SMTP Configuration	Yes	model.AlertConfigSetInfo

Responses

Code	Description	Schema
200	OK	model.AlertConfigGetInfo

Code	Description	Schema
400	Bad Request	string

Models

model.AlertConfigGetInfo

Name	Type	Description	Required
auth-identity	string		No
auth-password	string		No
auth-secret	string		No
auth-username	string		No
create-time	string		No
from	string		No
hello	string		No
host	string		No
require-tls	boolean		No
update-time	string		No

model.AlertConfigSetInfo

Name	Type	Description	Required
auth-identity	string		No
auth-password	string		No
auth-secret	string		No
auth-username	string		No
from	string		No
hello	string		No
host	string		No
require-tls	boolean		No

model.AlertGetEntry

Name	Type	Description	Required
alerts	[model.AlertGetInfo]		No
limit	integer		No
offset	integer		No
total	integer		No

model.AlertGetInfo

Name	Type	Description	Required
acked	boolean		No
acked-time	string		No
alert-group	string		No
alert-name	string		No
cnBR	string		No
comment	string		No
create-time	string		No
creator	string		No
description	string		No
end-time	string		No
expire-time	string		No
id	string		No
severity	string		No
start-time	string		No
status	string		No
summary	string		No
update-time	string		No

model.AlertGroupGetInfo

Name	Type	Description	Required
alert	[string]		No
create-time	string		No
enabled	boolean		No
name	string		No
sendto	[string]		No
update-time	string		No

model.AlertGroupSetInfo

Name	Type	Description	Required
enabled	boolean		No
sendto	[string]		No

model.AlertSetInfo

Name	Type	Description	Required
acked-time	string		No
comment	string		No
creator	string		No

Name	Type	Description	Required
expire-time	string		No

model.LogLevel

Name	Type	Description	Required
Log Level	string		No

Operations Hub KPI Management API

Version: 1.0

/api/clusterkpi/health

GET

Summary Top level health kpi query

Parameters

Name	Located in	Description	Required	Schema
verbose	query	A flag to show detail response for debug	No	boolean
time	query	Timestamp in rfc3339 or unix_timestamp format, only for instant query	No	string
start	query	Start timestamp in rfc3339 or unix_timestamp format	No	string
end	query	End timestamp in rfc3339 or unix_timestamp format	No	string
step	query	Query resolution step width in duration format (e.g. 5s) or float number of seconds.	No	string

Name	Located in	Description	Required	Schema
params	query	additional query condition	No	object

Responses

Code	Description
200	1 is healthy, 0 is unhealthy, -1 is no data available
400	User input error
500	Internal error

/api/clusterkpi/health/{folder}

GET

Summary Detail health kpi query

Parameters

Name	Located in	Description	Required	Schema
folder	path	kpi metric path	Yes	string
verbose	query	A flag to show detail response for debug	No	boolean
time	query	Timestamp in rfc3339 or unix_timestamp format, only for instant query	No	string
start	query	Start timestamp in rfc3339 or unix_timestamp format	No	string
end	query	End timestamp in rfc3339 or unix_timestamp format	No	string
step	query	Query resolution step width in duration format (e.g. 5s) or float number of seconds.	No	string

Responses

Code	Description
200	1 is healthy, 0 is unhealthy, -1 is no data available
400	User input error
500	Internal error
