30- Multicast Configuration Commands

30.1 Multicast Configuration Command Tree

Description

This chapter gives an overview of nodes that are handled by "Multicast Configuration Commands".

Command Tree

----configure
----mcast
----general
- [no] fast-change
- [no] pkg-memb-bitmap
- [no] max-bitrate
- [no] mean-bit-rate

----[no] package-member
- (package)

----capacity
- [no] max-num-group
- [no] max-num-uncfg
- [no] cfg-res-time
- [no] uncfg-res-time

----X [no] channel
- (grp-ip-addr)
- src-ip-addr
- [no] dis-fast-change
- [no] pkg-mem-bitmap
- [no] name
- [no] guaranteed-serv
- [no] peak-bit-rate
- vlan-id
- [no] service-name
- [no] preview-duration
- [no] preview-number
- [no] preview-blackout

----[no] packagemember
- (package)

----[no] chn
- (grp-ip-addr)
- src-ip-addr
- vlan-id
- [no] end-ip-addr
- [no] mcast-svc-context
- [no] dis-fast-change
- [no] pkg-mem-bitmap
- [no] name
- [no] guaranteed-serv
- [no] peak-bit-rate
- [no] service-name
- [no] preview-duration
- [no] preview-number
- [no] preview-blackout

----[no] packagemember

- (package)
----[no] ipv6-chn
- (grp-ipv6-addr)
- src-ipv6-addr
- vlan-id
- [no] end-ipv6-addr
- [no] mcast-svc-context
- [no] dis-fast-change
- [no] pkg-mem-bitmap
- [no] name
- [no] guaranteed-serv
- [no] peak-bit-rate
- [no] service-name
- [no] preview-duration
- [no] preview-number
- [no] preview-blackout

----[no] packagemember
- (package)
----monitor
----[no] src
- (grp-ip-addr)
- src-ip-addr
- [no] loss-duration
- [no] loss-thresh-alert

----[no] chn
- (grp-ip-addr)
- src-ip-addr
- vlan-id
- [no] loss-duration
- [no] loss-thresh-alert

----static
----[no] branch
- (grp-ip-addr)
- src-ip-addr
- port

30.2 Multicast General Group Configuration Command

Command Description

This command allows the operator to configure general multicast parameters.

User Level

The command can be accessed by operators with igmp privileges, and executed by operators with igmp privileges.

Command Syntax

The command has the following syntax:

> configure mcast general [[no] fast-change] [no pkg-memb-bitmap | pkg-memb-bitmap <Igmp::PkgMemBitMap>] [no max-bitrate | max-bitrate <Igmp::GeneralMcastMaxBitRate>] [no mean-bit-rate | mean-bit-rate <Igmp::GeneralMcastMeanBitRate>]

Command Parameters

Table 30.2-2 "Multicast General Group Configuration Command" Command Parameters

Parameter	Type	Description
[no] fast-change	Parameter type: boolean	*optional parameter* enable fast channel change
[no] pkg-memb-bitmap	Parameter type: <Igmp::PkgMemBitMap> Format: - a binary string - length: 128	*optional parameter with default value: "ff : ff"* package(s) a class D address belongs
[no] max-bitrate	Parameter type: <Igmp::GeneralMcastMaxBitRate> Format: - reasonable max bitrate in ATM level for upstream - unit: kbps - range: [0...100000]	*optional parameter with default value: 2500* reasonable downstream max bitrate in ATM level

Parameter	Type	Description
[no] mean-bit-rate	Parameter type: <Igmp::GeneralMcastMeanBitRate> Format: - reasonable mean bitrate in ATM level for upstream - unit: kbps - range: [0...100000]	*optional parameter with default value: 2500* reasonable downstream mean bitrate in ATM level

30.3 General Multicast Package Members Configuration Command

Command Description

This command allows the operator to configure the IGMP general multicast package members.

User Level

The command can be accessed by operators with igmp privileges, and executed by operators with igmp privileges.

Command Syntax

The command has the following syntax:

> configure mcast general (no package-member (package)) | (package-member (package))

Command Parameters

Table 30.3-1 "General Multicast Package Members Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(package)	Format: - the package number - range: [1...1024]	package member

30.4 Multicast Capacity Configuration Command

Command Description

This command allows the operator to configure the multicast capacity parameters.

User Level

The command can be accessed by operators with igmp privileges, and executed by operators with igmp privileges.

Command Syntax

The command has the following syntax:

> configure mcast capacity [no max-num-group | max-num-group <Igmp::McastCapacityMaxNumGroup>] [no max-num-uncfg | max-num-uncfg <Igmp::McastCapacityMaxNumUnCfg>] [no cfg-res-time | cfg-res-time <Igmp::multicastCapacityCfgSourceReserveTime>] [no uncfg-res-time | uncfg-res-time <Igmp::multicastCapacityUnCfgSourceReserveTime>]

Command Parameters

Table 30.4-2 "Multicast Capacity Configuration Command" Command Parameters

Parameter	Type	Description
[no] max-num-group	Parameter type: <Igmp::McastCapacityMaxNumGroup> Format: - no of groups the system can support in enough bandwidth (actual value depends on card capacity) - range: [0...2048]	*optional parameter with default value: 1024* max number of groups the system (per LT) supports in enough bandwidth
[no] max-num-uncfg	Parameter type: <Igmp::McastCapacityMaxNumUnCfg> Format: - no of uncfg grps,system can support in enough bandwidth (actual value depends on card capacity) - range: [0...2048]	*optional parameter with default value: 64* max number of uncfg groups the system (per LT) supports in enough bandwidth
[no] cfg-res-time	Parameter type: <Igmp::multicastCapacityCfgSourceReserveTime> Format: - time to reserve - unit: sec - range: [0...2147483647]	*optional parameter with default value: 125* time to reserve the unused guaranteed configured groups
[no] uncfg-res-time	Parameter type: <Igmp::multicastCapacityUnCfgSourceReserveTime> Format: - time to reserve - unit: sec - range: [0...2147483647]	*optional parameter with default value: 0* time to reserve the unused unconfigured groups

30.5 Multicast Channel Configuration Command

Command Description

Obsolete command, replaced by configure mcast chn.

This command allows the operator to configure the multicast channel.

Note:Mcast channel can not be deleted when VlanSelection is enabled.

User Level

The command can be accessed by operators with igmp privileges, and executed by operators with igmp privileges.

Command Syntax

The command has the following syntax:

> configure mcast (no channel (grp-ip-addr) src-ip-addr <Ip::V4Address>) | (channel (grp-ip-addr) src-ip-addr <Ip::V4Address> [[no] dis-fast-change] [no pkg-mem-bitmap | pkg-mem-bitmap <Igmp::PkgMemBitMap>] [no name | name <Igmp::multicastSrcName>] [[no] guaranteed-serv] [no peak-bit-rate | peak-bit-rate <Igmp::McastSrcEtherPeakBitRate>] vlan-id <Igmp::McastSrcVLANID> [no service-name | service-name <Igmp::multicastSrcServiceName>] [no preview-duration | preview-duration <Igmp::multicastSrcMaxPreDuration>] [no preview-number | preview-number <Igmp::multicastSrcMaxPreNumber>] [no preview-blackout | preview-blackout <Igmp::multicastSrcPreBlackout>])

Obsolete command, replaced by configure mcast chn.

Command Parameters

Table 30.5-1 "Multicast Channel Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(grp-ip-addr)	Format: - multicast-address (range: 224.0.0.3....239.255.255.255, except for 224.0.0.22)	ip address identifying the multicast group
src-ip-addr	Parameter type: <Ip::V4Address> Format: - IPv4-address	ip address of the multicast server originating the multicast channel,value 0.0.0.0 means ASM(any-src-ip-addr),range:0.0.0.0....22

Table 30.5-2 "Multicast Channel Configuration Command" Command Parameters

Parameter	Type	Description
[no] dis-fast-change	Parameter type: boolean	*optional parameter* disable fast channel change
[no] pkg-mem-bitmap	Parameter type: <Igmp::PkgMemBitMap> Format: - a binary string - length: 128	*optional parameter with default value: "01 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 : 00 :*

Parameter	Type	Description
		00 : 00" indicates to which package(s) a mcast channel belongs
[no] name	Parameter type: <Igmp::multicastSrcName> Format: - a printable string - length: x<=32	*optional parameter with default value: ""* name of the mcast channel
[no] guaranteed-serv	Parameter type: boolean	*optional parameter* enable guaranteed service
[no] peak-bit-rate	Parameter type: <Igmp::McastSrcEtherPeakBitRate> Format: - peak bit rate for transmit/downstream traffic - unit: kbps - range: [0...100000]	*optional parameter with default value: 2125* *The parameter is not visible during modification.* ethernet peak bit rate for downstream traffic
vlan-id	Parameter type: <Igmp::McastSrcVLANID> Format: - VLAN for this multicast source - range: [1...4093]	*mandatory parameter* *The parameter is not visible during modification.* VLAN for this multicast channel
[no] service-name	Parameter type: <Igmp::multicastSrcServiceName> Format: - a printable string - length: x<=32	*optional parameter with default value: ""* name of service or service provider of the mcast channel
[no] preview-duration	Parameter type: <Igmp::multicastSrcMaxPreDuration> Format: - reasonable max duration for each preview per mcast grp - unit: sec - range: [1...6000]	*optional parameter with default value: 180* Maximum duration for each preview per multicast channel
[no] preview-number	Parameter type: <Igmp::multicastSrcMaxPreNumber> Format: - valid max no. of previews for each preview per mcast grp - range: [1...100]	*optional parameter with default value: 3* Max number of previews for each preview per mcast group
[no] preview-blackout	Parameter type: <Igmp::multicastSrcPreBlackout> Format: - valid preview Blackout Duration time of per mcast group - unit: sec - range: [0...7200]	*optional parameter with default value: 0* Preview Blackout Duration time of per multicast channel

30.6 Multicast Channel Package Members Configuration Command

Command Description

This command allows the operator to configure the multicast channel package members.

A multicast channel can be member of maximum 20 packages or be member of all (1024) packages, any value in between will be rejected.

Using this command packages will be added or removed from/to the list of packages of which the multicast channel is currently a member.

If the multicast channel is member of all packages care must be taken when removing packages, meaning that the command will only be accepted if after execution the multicast channel will be member of 20 packages or less.

User Level

The command can be accessed by operators with igmp privileges, and executed by operators with igmp privileges.

Command Syntax

The command has the following syntax:

> configure mcast channel (grp-ip-addr)src-ip-addr <Ip::V4Address> (no packagemember (package)) | (packagemember (package))

Command Parameters

Table 30.6-1 "Multicast Channel Package Members Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(grp-ip-addr)	Format: - multicast-address (range: 224.0.0.3....239.255.255.255, except for 224.0.0.22)	ip address identifying the multicast group
src-ip-addr	Parameter type: <Ip::V4Address> Format: - IPv4-address	ip address of the multicast server originating the multicast channel,value 0.0.0.0 means ASM(any-src-ip-addr),range:0.0.0.0....22
(package)	Format: - the package number - range: [1...1024]	package member

30.7 Multicast Channel Configuration Command

Command Description

This command allows the operator to configure the multicast channel.

Note:Mcast channel can not be deleted when VlanSelection is enabled.

User Level

The command can be accessed by operators with igmp privileges, and executed by operators with igmp privileges.

Command Syntax

The command has the following syntax:

> configure mcast (no chn (grp-ip-addr) src-ip-addr <Ip::V4Address> vlan-id <Igmp::McastChannelVlan>) | (chn (grp-ip-addr) src-ip-addr <Ip::V4Address> vlan-id <Igmp::McastChannelVlan> [no end-ip-addr | end-ip-addr <Ip::V4Address>] [no mcast-svc-context | mcast-svc-context <Igmp::McastSvcCtxtName>] [[no] dis-fast-change] [no pkg-mem-bitmap | pkg-mem-bitmap <Igmp::PkgMemBitMap>] [no name | name <Igmp::multicastSrcName>] [[no] guaranteed-serv] [no peak-bit-rate | peak-bit-rate <Igmp::McastSrcEtherPeakBitRate>] [no service-name | service-name <Igmp::multicastSrcServiceName>] [no preview-duration | preview-duration <Igmp::multicastSrcMaxPreDuration>] [no preview-number | preview-number <Igmp::multicastSrcMaxPreNumber>] [no preview-blackout | preview-blackout <Igmp::multicastSrcPreBlackout>])

Command Parameters

Table 30.7-1 "Multicast Channel Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(grp-ip-addr)	Format: - multicast-address (range: 224.0.0.3....239.255.255.255, except for 224.0.0.22)	ip address identifying the multicast group
src-ip-addr	Parameter type: <Ip::V4Address> Format: - IPv4-address	ip address of the multicast server originating the multicast channel,value 0.0.0.0 means ASM(any-src-ip-addr),range:0.0.0.0....22
vlan-id	Parameter type: <Igmp::McastChannelVlan> Format: - vlan id for multicast - range: [1...4093]	vlanid of the multicast channel which is configured in it

Table 30.7-2 "Multicast Channel Configuration Command" Command Parameters

Parameter	Type	Description
[no] end-ip-addr	Parameter type: <Ip::V4Address> Format: - IPv4-address	*optional parameter with default value: "0.0.0.0"* *The parameter is not visible during modification.* end ip address of the range of

Parameter	Type	Description
		multicast addresses starting from the group address
[no] mcast-svc-context	Parameter type: <Igmp::McastSvcCtxtName> Format: (name : <Qos::IgnoredQosProfileName> | default) Possible values: - default : Default profile is associated - name : Name of the multicast service context profile Data driven field type Possible values are depending on the actual configuration and software. The currently allowed values can be shown with online-help.	*optional parameter with default value: "default"* Multicast Service Context Name
[no] dis-fast-change	Parameter type: boolean	*optional parameter* disable fast channel change
[no] pkg-mem-bitmap	Parameter type: <Igmp::PkgMemBitMap> Format: - a binary string - length: 128	*optional parameter with default value: "01 : 00"* indicates to which package(s) a mcast channel belongs
[no] name	Parameter type: <Igmp::multicastSrcName> Format: - a printable string - length: x<=32	*optional parameter with default value: ""* name of the mcast channel
[no] guaranteed-serv	Parameter type: boolean	*optional parameter* enable guaranteed service
[no] peak-bit-rate	Parameter type: <Igmp::McastSrcEtherPeakBitRate> Format: - peak bit rate for transmit/downstream traffic - unit: kbps - range: [0...100000]	*optional parameter with default value: 2125* *The parameter is not visible during modification.* ethernet peak bit rate for downstream traffic
[no] service-name	Parameter type: <Igmp::multicastSrcServiceName> Format: - a printable string - length: x<=32	*optional parameter with default value: ""* name of service or service provider of the mcast channel
[no] preview-duration	Parameter type: <Igmp::multicastSrcMaxPreDuration> Format: - reasonable max duration for each preview per mcast grp - unit: sec	*optional parameter with default value: 180* Maximum duration for each preview per multicast channel

Parameter	Type	Description
	- range: [1...6000]	
[no] preview-number	Parameter type: <Igmp::multicastSrcMaxPreNumber> Format: - valid max no. of previews for each preview per mcast grp - range: [1...100]	*optional parameter with default value: 3* Max number of previews for each preview per mcast group
[no] preview-blackout	Parameter type: <Igmp::multicastSrcPreBlackout> Format: - valid preview Blackout Duration time of per mcast group - unit: sec - range: [0...7200]	*optional parameter with default value: 0* Preview Blackout Duration time of per multicast channel

30.8 Multicast Channel Package Members Configuration Command

Command Description

This command allows the operator to configure the multicast channel package members.

A multicast channel can be member of maximum 20 packages or be member of all (1024) packages, any value in between will be rejected.

Using this command packages will be added or removed from/to the list of packages of which the multicast channel is currently a member.

If the multicast channel is member of all packages care must be taken when removing packages, meaning that the command will only be accepted if after execution the multicast channel will be member of 20 packages or less.

User Level

The command can be accessed by operators with igmp privileges, and executed by operators with igmp privileges.

Command Syntax

The command has the following syntax:

> configure mcast chn (grp-ip-addr)src-ip-addr <Ip::V4Address>vlan-id <Igmp::McastChannelVlan> (no packagemember (package)) | (packagemember (package))

Command Parameters

Table 30.8-1 "Multicast Channel Package Members Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(grp-ip-addr)	Format: - multicast-address (range: 224.0.0.3....239.255.255.255, except for 224.0.0.22)	ip address identifying the multicast group
src-ip-addr	Parameter type: <Ip::V4Address> Format: - IPv4-address	ip address of the multicast server originating the multicast channel,value 0.0.0.0 means ASM(any-src-ip-addr),range:0.0.0.0....22
vlan-id	Parameter type: <Igmp::McastChannelVlan> Format: - vlan id for multicast - range: [1...4093]	vlanid of the multicast channel which is configured in it
(package)	Format: - the package number - range: [1...1024]	package member

30.9 Multicast Ipv6 Channel Configuration Command

Command Description

This command allows the operator to configure the multicast Ipv6 channel.

Note:Mcast channel can not be deleted when VlanSelection is enabled.

User Level

The command can be accessed by operators with igmp privileges, and executed by operators with igmp privileges.

Command Syntax

The command has the following syntax:

> configure mcast (no ipv6-chn (grp-ipv6-addr) src-ipv6-addr <Igmp::IPv6Address> vlan-id <Igmp::McastChannelVlan>) | (ipv6-chn (grp-ipv6-addr) src-ipv6-addr <Igmp::IPv6Address> vlan-id <Igmp::McastChannelVlan> [no end-ipv6-addr | end-ipv6-addr <Igmp::MulticastV6Address>] [no mcast-svc-context | mcast-svc-context <Igmp::McastSvcCtxtName>] [[no] dis-fast-change] [no pkg-mem-bitmap | pkg-mem-bitmap <Igmp::PkgMemBitMap>] [no name | name <Igmp::multicastSrcName>] [[no] guaranteed-serv] [no peak-bit-rate | peak-bit-rate <Igmp::McastSrcEtherPeakBitRate>] [no service-name | service-name <Igmp::multicastSrcServiceName>] [no preview-duration | preview-duration <Igmp::multicastSrcMaxPreDuration>] [no preview-number | preview-number <Igmp::multicastSrcMaxPreNumber>] [no preview-blackout | preview-blackout <Igmp::multicastSrcPreBlackout>])

Command Parameters

Table 30.9-1 "Multicast Ipv6 Channel Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(grp-ipv6-addr)	Format: - multicast ipv6 address (prefix should be FF)	ipv6 address identifying the multicast group
src-ipv6-addr	Parameter type: <Igmp::IPv6Address> Format: - ipv6 address (unicast ipv6 address)	ipv6 address of the multicast server originating the multicast channel,value :: means ASM (any-src-ipv6-addr)
vlan-id	Parameter type: <Igmp::McastChannelVlan> Format: - vlan id for multicast - range: [1...4093]	vlanid of the multicast channel which is configured in it

Table 30.9-2 "Multicast Ipv6 Channel Configuration Command" Command Parameters

Parameter	Type	Description
[no] end-ipv6-addr	Parameter type: <Igmp::MulticastV6Address> Format:	*optional parameter with default value: " : : "*

Parameter	Type	Description
	- multicast ipv6 address (prefix should be FF)	*The parameter is not visible during modification.* end ipv6 address of the range of multicast addresses starting from the group address
[no] mcast-svc-context	Parameter type: <Igmp::McastSvcCtxtName> Format: (name : <Qos::IgnoredQosProfileName> | default) Possible values: - default : Default profile is associated - name : Name of the multicast service context profile Data driven field type Possible values are depending on the actual configuration and software. The currently allowed values can be shown with online-help.	*optional parameter with default value: "default"* Multicast Service Context Name
[no] dis-fast-change	Parameter type: boolean	*optional parameter* disable fast channel change
[no] pkg-mem-bitmap	Parameter type: <Igmp::PkgMemBitMap> Format: - a binary string - length: 128	*optional parameter with default value: "01 : 00"* indicates to which package(s) a mcast channel belongs
[no] name	Parameter type: <Igmp::multicastSrcName> Format: - a printable string - length: x<=32	*optional parameter with default value: ""* name of the mcast channel
[no] guaranteed-serv	Parameter type: boolean	*optional parameter* enable guaranteed service
[no] peak-bit-rate	Parameter type: <Igmp::McastSrcEtherPeakBitRate> Format: - peak bit rate for transmit/downstream traffic - unit: kbps - range: [0...100000]	*optional parameter with default value: 2125* *The parameter is not visible during modification.* ethernet peak bit rate for downstream traffic
[no] service-name	Parameter type: <Igmp::multicastSrcServiceName> Format: - a printable string - length: x<=32	*optional parameter with default value: ""* name of service or service provider of the mcast channel
[no] preview-duration	Parameter type: <Igmp::multicastSrcMaxPreDuration>	*optional parameter with default*

Parameter	Type	Description
	Format: - reasonable max duration for each preview per mcast grp - unit: sec - range: [1...6000]	*value: 180* Maximum duration for each preview per multicast channel
[no] preview-number	Parameter type: <Igmp::multicastSrcMaxPreNumber> Format: - valid max no. of previews for each preview per mcast grp - range: [1...100]	*optional parameter with default value: 3* Max number of previews for each preview per mcast group
[no] preview-blackout	Parameter type: <Igmp::multicastSrcPreBlackout> Format: - valid preview Blackout Duration time of per mcast group - unit: sec - range: [0...7200]	*optional parameter with default value: 0* Preview Blackout Duration time of per multicast channel

30.10 Multicast Channel Package Members Configuration Command

Command Description

This command allows the operator to configure the multicast channel package members.

A multicast channel can be member of maximum 20 packages or be member of all (1024) packages, any value in between will be rejected.

Using this command packages will be added or removed from/to the list of packages of which the multicast channel is currently a member.

If the multicast channel is member of all packages care must be taken when removing packages, meaning that the command will only be accepted if after execution the multicast channel will be member of 20 packages or less.

User Level

The command can be accessed by operators with igmp privileges, and executed by operators with igmp privileges.

Command Syntax

The command has the following syntax:

> configure mcast ipv6-chn (grp-ipv6-addr)src-ipv6-addr <Igmp::IPv6Address>vlan-id <Igmp::McastChannelVlan> (no packagemember (package)) | (packagemember (package))

Command Parameters

Table 30.10-1 "Multicast Channel Package Members Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(grp-ipv6-addr)	Format: - multicast ipv6 address (prefix should be FF)	ipv6 address identifying the multicast group
src-ipv6-addr	Parameter type: <Igmp::IPv6Address> Format: - ipv6 address (unicast ipv6 address)	ipv6 address of the multicast server originating the multicast channel,value :: means ASM (any-src-ipv6-addr)
vlan-id	Parameter type: <Igmp::McastChannelVlan> Format: - vlan id for multicast - range: [1...4093]	vlanid of the multicast channel which is configured in it
(package)	Format: - the package number - range: [1...1024]	package member

30.11 Multicast Monitoring Source Configuration Command

Command Description

This command allows the operator to configure on demand monitoring for a specified multicast stream.

User Level

The command can be accessed by operators with igmp privileges, and executed by operators with igmp privileges.

Command Syntax

The command has the following syntax:

> configure mcast monitor (no src (grp-ip-addr) src-ip-addr <Ip::V4Address>) | (src (grp-ip-addr) src-ip-addr <Ip::V4Address> [no loss-duration | loss-duration <Igmp::LossDuration>] [no loss-thresh-alert | loss-thresh-alert <Igmp::LossThreshold>])

Command Parameters

Table 30.11-1 "Multicast Monitoring Source Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(grp-ip-addr)	Format: - multicast-address (range: 224.0.0.3....239.255.255.255, except for 224.0.0.22)	mcast src address in network-byte order(big-endian)
src-ip-addr	Parameter type: <Ip::V4Address> Format: - IPv4-address	Unicast IP address in case SSM multicast channel, value 0.0.0.0 means ASM(any-src-ip-addr)

Table 30.11-2 "Multicast Monitoring Source Configuration Command" Command Parameters

Parameter	Type	Description
[no] loss-duration	Parameter type: <Igmp::LossDuration> Format: - duration - unit: sec - range: [5...2147483647]	*optional parameter with default value: 15* set the duration to count packets
[no] loss-thresh-alert	Parameter type: <Igmp::LossThreshold> Format: - the threshold for loss of traffic alert, 0 - disable - range: [0...4294967295]	*optional parameter with default value: 0* set loss of traffic threshold, alert generated if packet count is less or equal to the threshold.

30.12 Multicast Monitoring Channel Configuration Command

Command Description

This command allows the operator to configure on demand monitoring for a specified multicast stream.

User Level

The command can be accessed by operators with igmp privileges, and executed by operators with igmp privileges.

Command Syntax

The command has the following syntax:

> configure mcast monitor (no chn (grp-ip-addr) src-ip-addr <Ip::V4Address> vlan-id <Igmp::McastMonitorVlan>) | (chn (grp-ip-addr) src-ip-addr <Ip::V4Address> vlan-id <Igmp::McastMonitorVlan> [no loss-duration | loss-duration <Igmp::LossDuration>] [no loss-thresh-alert | loss-thresh-alert <Igmp::LossThreshold>])

Command Parameters

Table 30.12-1 "Multicast Monitoring Channel Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(grp-ip-addr)	Format: - multicast-address (range: 224.0.0.3....239.255.255.255, except for 224.0.0.22)	mcast src address in network-byte order(big-endian)
src-ip-addr	Parameter type: <Ip::V4Address> Format: - IPv4-address	Unicast IP address in case SSM multicast channel, value 0.0.0.0 means ASM(any-src-ip-addr)
vlan-id	Parameter type: <Igmp::McastMonitorVlan> Format: - vlan id for multicast - range: [0...4093]	vlanid of the multicast channel. Value 0 means any VLAN ID

Table 30.12-2 "Multicast Monitoring Channel Configuration Command" Command Parameters

Parameter	Type	Description
[no] loss-duration	Parameter type: <Igmp::LossDuration> Format: - duration - unit: sec - range: [5...2147483647]	*optional parameter with default value: 15* set the duration to count packets
[no] loss-thresh-alert	Parameter type: <Igmp::LossThreshold> Format: - the threshold for loss of traffic alert, 0 - disable - range: [0...4294967295]	*optional parameter with default value: 0* set loss of traffic threshold, alert generated if packet count is less or equal to the threshold.

30.13 Multicast Static Branch Configuration Command

Command Description

This command allow the operator to configure the static multicast branch. When at least one static multicast branch is created, the corresponding static multicast root is created.

User Level

The command can be accessed by operators with igmp privileges, and executed by operators with igmp privileges.

Command Syntax

The command has the following syntax:

> configure mcast static (no branch (grp-ip-addr) src-ip-addr <Ip::V4Address> port <Itf::VlanPort>) | (branch (grp-ip-addr) src-ip-addr <Ip::V4Address> port <Itf::VlanPort>)

Command Parameters

Table 30.13-1 "Multicast Static Branch Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(grp-ip-addr)	Format: - multicast-address (range: 224.0.0.3....239.255.255.255, except for 224.0.0.22)	ip address identifying the multicast group
src-ip-addr	Parameter type: <Ip::V4Address> Format: - IPv4-address	ip address of the multicast server originating the multicast channel, value 0.0.0.0 means ASM(any-src-ip-addr),range:0.0.0.0....22
port	Parameter type: <Itf::VlanPort> Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> : <Eqpt::UnstackedVlan> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::UnstackedVlan> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId> : <Eqpt::UnstackedVlan> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / voip :	identification of the vlanport

Resource Identifier	Type	Description
	<Eqpt::UnstackedVlan> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni : <Eqpt::UnstackedVlan> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::LLId> : <Eqpt::UnstackedVlan> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / voip : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::LLId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / <Eqpt::Ng2OntSlotId> / <Eqpt::Ng2OntPortId> : <Eqpt::UnstackedVlan> | ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / <Eqpt::Ng2OntSlotId> / <Eqpt::Ng2OntPortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / vuni) Possible values: - ng2 : ngpon2 style identification Field type <Eqpt::RackId> - the rack number Field type <Eqpt::ShelfId> - the shelf number Field type <Eqpt::SlotId> - the LT slot number Field type <Eqpt::PortId> - the port number Field type <Eqpt::VpiId> - atm VPI Field type <Eqpt::VciId> - atm VCI Field type <Eqpt::ChannelGroupId> - the channel group identifier Field type <Eqpt::SubChannelGroupId> - the subchannel group identifier Field type <Eqpt::PonId> - the PON identifier Field type <Eqpt::OntId> - the ONT identifier Field type <Eqpt::Ng2OntId> - the NG2 ONT identifier Possible values: - voip : virtual uni identifier obsolete alternative replaced by vuni	

Resource Identifier	Type	Description
	- vuni : virtual uni identifier Field type <Eqpt::OntSlotId> - the ONT SLOT identifier Field type <Eqpt::OntPortId> - the ONT PORT identifier Possible values: - vuni : virtual NGPON2 uni identifier Field type <Eqpt::Ng2OntSlotId> - the NGPON2 ONT SLOT identifier Field type <Eqpt::Ng2OntPortId> - the NGPON2 ONT PORT identifier Field type <Eqpt::LLId> - the LLID identifier,range 1 for EPON,range 1-8 for DPOE Possible values: - stacked : stacked vlan identity Field type <Eqpt::UnstackedVlan> - unstacked vlan id Field type <Eqpt::SVlan> - service vlan id Field type <Eqpt::CVlan> - customer vlan id	