90- Mcast control Configuration Commands

90.1 Mcast control Configuration Command Tree

Description

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

Command Tree

----configure
----mcast-control
----[no] channel
- (port)
- [no] perm-pkg-bitmap
- [no] max-num-group
- [no] mode
X (cac-disable)
X (ip-anti-spoof-dis)
- [no] igmp-version
- [no] mld-version
- [no] forking
- [no] lt-ont-signaling
- [no] mc-pbit-value
- [no] mcast-vlan-id
- [no] mc-vlan-xlate
- [no] mcast-svc-context
- [no] max-msg-rate
- [no] ip-version
----[no] fullview-packages
- (package)
----[no] preview-packages
- (package)
----system
- [no] src-ip-address
- [no] v6-src-ip-address
- [no] verify-checksum
- [no] query-interval
- [no] max-rsp-time
- [no] robustness
- [no] mem-query-int
- [no] last-memb-cnt
- [no] last-max-resp-tim
- [no] host-report-intv
- [no] start
- [no] preview-valid
- [no] cdr-validation
- [no] cdr-generation
- [no] except-cdr-rate
- [no] cdr-export
- [no] cdr-file-aging
- [no] cdr-polling
- [no] user-igmp-version
- [no] netw-igmp-version
- [no] user-mld-version

- [no] netw-mld-version
- [no] v3-max-num-rec
- [no] forking
- [no] lt-ont-signaling
- [no] vlan-selection
- [no] disc-lwr-version
- [no] uncfg-mcast-supp

----cdr-type

- [no] periodic
- [no] period
- [no] attempt-max-pview
- [no] attempt-blackout
- [no] attempt-no-perm

----ipv6

----[no] vlan

- **(vlan-id)**
- netw-mld-version
- [no] mldv2-max-num-rec

----ipv4

----[no] vlan

- **(vlan-id)**
- netw-igmp-version
- [no] v3-max-num-rec

----[no] mc-vlan-xlate

- **(nwvlan)**
- ponvlan

----[no] mc-pon-vlan-xlate

- **(pon)**
- **nwvlan**
- ponvlan

----[no] mcast-svc-context

- **(name)**

----package

- **(index)**
- [no] name
- [no] template-name
- [no] template-version

90.2 mcast Channel Configuration Command

Command Description

This command allows the operator to create and configure the mcast channel 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-control (no channel (port)) | (channel (port) [no perm-pkg-bitmap | perm-pkg-bitmap <Igmp::PermPkgBitMap>] [no max-num-group | max-num-group <Igmp::ChannelMaxNumGroup>] [no mode | mode <Igmp::ChannelProtocolMode>] [(cac-disable)] [(ip-anti-spoof-dis)] [no igmp-version | igmp-version <Igmp::UserItfVersion>] [no mld-version | mld-version <Igmp::MldUserItfVersion>] [no forking | forking <Igmp::ForkingStatus>] [no lt-ont-signaling | lt-ont-signaling <Igmp::ChannelLtOntSignaling>] [no mc-pbit-value | mc-pbit-value <Igmp::McPbitValue>] [no mcast-vlan-id | mcast-vlan-id <Igmp::ProtocolMcastVlan>] [no mc-vlan-xlate | mc-vlan-xlate <Igmp::mcVlanXlateAdmin>] [no mcast-svc-context | mcast-svc-context <Igmp::McastSvcCtxtName>] [no max-msg-rate | max-msg-rate <Igmp::ChannelMaxMsgRate>] [no ip-version | ip-version <Igmp::ip-version>])

Command Parameters

Table 90.2-1 "mcast Channel Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(port)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> : <Eqpt::UnstackedVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::UnstackedVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> /	identification of the port, vlanport or virtual channel

Resource Identifier	Type	Description
	<Eqpt::OntPortId> : <Eqpt::UnstackedVlan> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / voip : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / voip : <Eqpt::UnstackedVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni : <Eqpt::UnstackedVlan> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / voip | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::LLId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <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::LLId> | vlan:ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / <Eqpt::Ng2OntSlotId> / <Eqpt::Ng2OntPortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan:ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / <Eqpt::Ng2OntSlotId> / <Eqpt::Ng2OntPortId> : <Eqpt::UnstackedVlan>) Possible values: - vlan : vlan port - vlan:ng2 : ngpon2 vlan port 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::PonId> - the PON identifier Field type <Eqpt::ChannelGroupId> - the channel group identifier Field type <Eqpt::SubChannelGroupId> - the subchannel group identifier	

Resource Identifier	Type	Description
	Field type <Eqpt::Ng2OntId> - the NG2 ONT identifier Field type <Eqpt::OntId> - the ONT identifier Possible values: - voip : virtual uni identifier obsolete alternative replaced by vuni - vuni : virtual uni identifier Possible values: - vuni : virtual NGPON2 uni identifier Field type <Eqpt::OntSlotId> - the ONT SLOT identifier Field type <Eqpt::OntPortId> - the ONT PORT 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	

Table 90.2-2 "mcast Channel Configuration Command" Command Parameters

Parameter	Type	Description
[no] perm-pkg-bitmap	Parameter type: <Igmp::PermPkgBitMap> Format: - a binary string - length: 128	*optional parameter with default value: "01 : 00"* packages, the user is allowed to join
[no] max-num-group	Parameter type: <Igmp::ChannelMaxNumGroup> Format: - Max group number this port can support.The value depends on the board type and port type,please refer to the	*optional parameter with default value: 0* Max group number this port can support.The value depends on the

Parameter	Type	Description
	product information document for detail. - range: [0...2048]	board type and port type,please refer to the product information document for detail.
[no] mode	Parameter type: <Igmp::ChannelProtocolMode> Format: (ipoe | pppoe) Possible values: - ipoe : IPoE mode - pppoe : PPPoE mode	*optional parameter with default value: "ipoe"* protocol mode (ipoe or pppoe)
(cac-disable)	Format: (cac-disable | cac) Possible values: - cac-disable : disables bandwidth CAC for conf. streams,default=enable - cac : enables bandwidth CAC for conf. streams,default=enable	*obsolete parameter that will be ignored* bandwidth CAC for pre-configured multicast streams
(ip-anti-spoof-dis)	Format: (ip-anti-spoof-dis | ip-anti-spoof) Possible values: - ip-anti-spoof-dis : disables IP@ anti-spoofing,default=enable - ip-anti-spoof : enables IP@ anti-spoofing,default=enable	*obsolete parameter that will be ignored* enables IP@ anti-spoofing on this user-interface
[no] igmp-version	Parameter type: <Igmp::UserItfVersion> Format: (system-inherited | 2 | 3) Possible values: - system-inherited : inherits GMQs to userversion from the system level - 2 : IGMPV2 GMQs - 3 : IGMPV3 GMQs	*optional parameter with default value: "system-inherited"* version of the IGMP protocol
[no] mld-version	Parameter type: <Igmp::MldUserItfVersion> Format: (system-inherited | 1 | 2) Possible values: - system-inherited : inherits GMQs to userversion from the system level - 1 : MLDV1 GMQs - 2 : MLDV2 GMQs	*optional parameter with default value: "system-inherited"* version of the MLD protocol
[no] forking	Parameter type: <Igmp::ForkingStatus> Format: (system-inherited | enable | disable) Possible values: - system-inherited : inherits forking status from the system level - enable : enable IGMP forking - disable : disable IGMP forking	*optional parameter with default value: "system-inherited"* forking status of the IGMP protocol
[no] lt-ont-signaling	Parameter type: <Igmp::ChannelLtOntSignaling> Format:	*optional parameter with default value: "inherited"*

Parameter	Type	Description
	(enabled | disabled | inherited) Possible values: - enabled : lt to ont signaling is enabled - disabled : lt to ont signaling is disabled - inherited : inherits lt to ont signaling from the system level	*The parameter is not visible during modification.* lt to ont signaling parameter
[no] mc-pbit-value	Parameter type: <Igmp::McPbitValue> Format: - default P-bit value to be used by the ONT on the UNI-side for downstream multicast traffic towards subscribers - range: [0...8]	*optional parameter with default value: 8* default P-bit value to be used by the ONT on the UNI-side for downstream multicast traffic towards subscribers
[no] mcast-vlan-id	Parameter type: <Igmp::ProtocolMcastVlan> Format: - vlan selection value - range: [0...4093]	*optional parameter with default value: 0* vlan selection for multicast channel
[no] mc-vlan-xlate	Parameter type: <Igmp::mcVlanXlateAdmin> Format: (enabled | disabled) Possible values: - enabled : allow mcast vlan translation - disabled : disallow mcast vlan translation	*optional parameter with default value: "disabled"* to enable or disable mcast vlan translation
[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] max-msg-rate	Parameter type: <Igmp::ChannelMaxMsgRate> Format: - Maximum number of Upstream IGMP messages that can be received on this IGMP channel - unit: messages/second - range: [0...256]	*optional parameter with default value: 0* Default value 0 indicates that the value is inherited from what is set in the system wide setting using command - configure qos dsl-ctrl-pkt-policer sustained-rate [1...64] burst-size [1...128]
[no] ip-version	Parameter type: <Igmp::ip-version> Format: (ipv4 | ipv6) Possible values: - ipv4 : support IGMP - ipv6 : support MLD	*optional parameter with default value: "ipv4"* the protocol the user want to use, IGMP(ipv4) or MLD(ipv6).

90.3 IGMP Channel Permission Package Members Configuration Command

Command Description

This command allows the operator to configure the IGMP channel permission 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-control channel (port) (no fullview-packages (package)) | (fullview-packages (package))

Command Parameters

Table 90.3-1 "IGMP Channel Permission Package Members Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(port)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> : <Eqpt::UnstackedVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::UnstackedVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <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> / <Eqpt::OntSlotId> / <Eqpt::OntPortId>	identification of the port, vlanport or virtual channel

Resource Identifier	Type	Description
	| vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / voip : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / voip : <Eqpt::UnstackedVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni : <Eqpt::UnstackedVlan> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / voip | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::LLId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <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::LLId> | vlan:ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / <Eqpt::Ng2OntSlotId> / <Eqpt::Ng2OntPortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan:ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / <Eqpt::Ng2OntSlotId> / <Eqpt::Ng2OntPortId> : <Eqpt::UnstackedVlan>) Possible values: - vlan : vlan port - vlan:ng2 : ngpon2 vlan port 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::PonId> - the PON identifier Field type <Eqpt::ChannelGroupId> - the channel group identifier Field type <Eqpt::SubChannelGroupId> - the subchannel group identifier Field type <Eqpt::Ng2OntId> - the NG2 ONT identifier Field type <Eqpt::OntId> - the ONT identifier	

Resource Identifier	Type	Description
	Possible values: - voip : virtual uni identifier obsolete alternative replaced by vuni - vuni : virtual uni identifier Possible values: - vuni : virtual NGPON2 uni identifier Field type <Eqpt::OntSlotId> - the ONT SLOT identifier Field type <Eqpt::OntPortId> - the ONT PORT 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	
(package)	Format: - the package number - range: [1...1024]	package member

90.4 IGMP Channel Preview Package Members Configuration Command

Command Description

This command allows the operator to configure the IGMP channel preview 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-control channel (port) (no preview-packages (package)) | (preview-packages (package))

Command Parameters

Table 90.4-1 "IGMP Channel Preview Package Members Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(port)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> : <Eqpt::UnstackedVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::UnstackedVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <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> / <Eqpt::OntSlotId> / <Eqpt::OntPortId>	identification of the port, vlanport or virtual channel

Resource Identifier	Type	Description
	| vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / voip : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / voip : <Eqpt::UnstackedVlan> | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni : <Eqpt::UnstackedVlan> | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / voip | <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni | vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::LLId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan : <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::LLId> | vlan:ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / <Eqpt::Ng2OntSlotId> / <Eqpt::Ng2OntPortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan> | vlan:ng2 : <Eqpt::ChannelGroupId> / <Eqpt::SubChannelGroupId> / <Eqpt::Ng2OntId> / <Eqpt::Ng2OntSlotId> / <Eqpt::Ng2OntPortId> : <Eqpt::UnstackedVlan>) Possible values: - vlan : vlan port - vlan:ng2 : ngpon2 vlan port 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::PonId> - the PON identifier Field type <Eqpt::ChannelGroupId> - the channel group identifier Field type <Eqpt::SubChannelGroupId> - the subchannel group identifier Field type <Eqpt::Ng2OntId> - the NG2 ONT identifier Field type <Eqpt::OntId> - the ONT identifier	

Resource Identifier	Type	Description
	Possible values: - voip : virtual uni identifier obsolete alternative replaced by vuni - vuni : virtual uni identifier Possible values: - vuni : virtual NGPON2 uni identifier Field type <Eqpt::OntSlotId> - the ONT SLOT identifier Field type <Eqpt::OntPortId> - the ONT PORT 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	
(package)	Format: - the package number - range: [1...1024]	package member

90.5 mcast System Configuration Command

Command Description

This command allows the operator to configure the mcast parameters that are globally applicable to the Node.

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-control system [no src-ip-address | src-ip-address <Ip::V4Address>] [no v6-src-ip-address | v6-src-ip-address <Igmp::Ipv6LinkLocalAddress>] [[no] verify-checksum] [no query-interval | query-interval <Igmp::SystemQueryInterval>] [no max-rsp-time | max-rsp-time <Igmp::SystemQueryMaxResponseTime>] [no robustness | robustness <Igmp::SystemRobustness>] [no mem-query-int | mem-query-int <Igmp::MembQueryIntvl>] [no last-memb-cnt | last-memb-cnt <Igmp::MembQueryCount>] [no last-max-resp-tim | last-max-resp-tim <Igmp::SystemLastMembMaxRespTime>] [no host-report-intv | host-report-intv <Igmp::SystemUnsolicitedReportIntvl>] [[no] start] [no preview-valid | preview-valid <Igmp::SystemPrevalidIntval>] [no cdr-validation | cdr-validation <Igmp::SystemPrecdrvalidIntval>] [[no] cdr-generation] [no except-cdr-rate | except-cdr-rate <Igmp::CDRGenerationForSingles>] [no cdr-export | cdr-export <Igmp::CDRGenerationMethod>] [no cdr-file-aging | cdr-file-aging <Igmp::CDRFileAgingTime>] [no cdr-polling | cdr-polling <Igmp::CDRSystemPollingCycle>] [no user-igmp-version | user-igmp-version <Igmp::igmpSystemGMQToUserSideVersion>] [no netw-igmp-version | netw-igmp-version <Igmp::V3ProcessingAdminStatus>] [no user-mld-version | user-mld-version <Igmp::igmpSystemMLDGMQToUserSideVersion>] [no netw-mld-version | netw-mld-version <Igmp::MldProcessingAdminStatus>] [no v3-max-num-rec | v3-max-num-rec <Igmp::V3MaxNumRecordsReport>] [[no] forking] [[no] lt-ont-signaling] [[no] vlan-selection] [[no] disc-lwr-version] [no uncfg-mcast-supp | uncfg-mcast-supp <Igmp::igmpSystemUncfgMcastSupport>]

Command Parameters

Table 90.5-2 "mcast System Configuration Command" Command Parameters

Parameter	Type	Description
[no] src-ip-address	Parameter type: <Ip::V4Address> Format: - IPv4-address	*optional parameter with default value: "0.0.0.0"* source ip addr which is tx in every mcast IP datagram
[no] v6-src-ip-address	Parameter type: <Igmp::Ipv6LinkLocalAddress> Format: - ipv6 link local address	*optional parameter with default value: " : : "* source ipv6 address(link local address) which is tx in every mcast IP datagram
[no] verify-checksum	Parameter type: boolean	*optional parameter* verification performed on Rx mcast frame
[no] query-interval	Parameter type: <Igmp::SystemQueryInterval>	*optional parameter with default*

Parameter	Type	Description
	Format: - interval at which general membership queries transmitted - unit: sec - range: [2...3175]	*value: 125* interval at which general membership queries transmitted
[no] max-rsp-time	Parameter type: <Igmp::SystemQueryMaxResponseTime> Format: - max query response time advertised in queries - unit: 1/10 sec - range: [1...31744]	*optional parameter with default value: 100* max query response time advertised in queries 1/10 sec
[no] robustness	Parameter type: <Igmp::SystemRobustness> Format: - tuning for the expected packet loss on a subnet - range: [1...10]	*optional parameter with default value: 2* expected pkt loss on subnet
[no] mem-query-int	Parameter type: <Igmp::MembQueryIntvl> Format: - spacing between GSQs (group-specific queries) - unit: 1/10 sec - range: [2...31744]	*optional parameter with default value: 10* minimum interval between group-specific queries
[no] last-memb-cnt	Parameter type: <Igmp::MembQueryCount> Format: - number of GSQs (group-specific queries) to be sent - range: [1...10]	*optional parameter with default value: 2* number of GSQs (group-specific queries) to be sent
[no] last-max-resp-tim	Parameter type: <Igmp::SystemLastMembMaxRespTime> Format: - allows shorter max response time - unit: 1/10 sec - range: [1...31744]	*optional parameter with default value: 2* allows shorter max response time
[no] host-report-intv	Parameter type: <Igmp::SystemUnsolicitedReportIntvl> Format: - interval of repetitions of host's report of grp membership - unit: 1/10 sec - range: [1...255]	*optional parameter with default value: 10* interval of repetitions of host's report of grp membership
[no] start	Parameter type: boolean	*optional parameter* start Mcast app module
[no] preview-valid	Parameter type: <Igmp::SystemPrevalidIntval> Format: - time interval that confirm the preview session is valid - unit: sec - range: [1...120]	*optional parameter with default value: 8* time interval that confirm the preview session is valid
[no] cdr-validation	Parameter type: <Igmp::SystemPrecdrvalidIntval> Format: (none | <Igmp::SystemPrecdrvalidIntval>) Possible values: - none : CDR generation valid immediately Field type <Igmp::SystemPrecdrvalidIntval> - minimum session time for generating a CDR - unit: sec - range: [0...120]	*optional parameter with default value: 2* minimum session time for generating a CDR
[no] cdr-generation	Parameter type: boolean	*optional parameter* start CDR generation in the system
[no] except-cdr-rate	Parameter type: <Igmp::CDRGenerationForSingles> Format: - limit the generation of CDR records - unit: min - range: [1...30]	*optional parameter with default value: 3* limit the generation of the CDR records

Parameter	Type	Description
[no] cdr-export	Parameter type: <Igmp::CDRGenerationMethod> Format: (local-file-storage | remote-logging) Possible values: - local-file-storage : method the cdr generated and forwarded - remote-logging : remote logging method	*optional parameter with default value: "local-file-storage"* the method the cdr is to be generated and forwarded
[no] cdr-file-aging	Parameter type: <Igmp::CDRFileAgingTime> Format: - configure the CDR file aging time - unit: hour - range: [4...24]	*optional parameter with default value: 8* configure the CDR file aging time
[no] cdr-polling	Parameter type: <Igmp::CDRSystemPollingCycle> Format: - configure the polling period for the CDR records, in multiples of 60 - unit: sec - range: [60...900]	*optional parameter with default value: 180* configure the polling period for the CDR records
[no] user-igmp-version	Parameter type: <Igmp::igmpSystemGMQToUserSideVersion> Format: (2 | 3) Possible values: - 2 : IGMPv2 GMQs - 3 : IGMPv3 GMQs	*optional parameter with default value: "3"* version of the IGMP protocol
[no] netw-igmp-version	Parameter type: <Igmp::V3ProcessingAdminStatus> Format: (2 | 3) Possible values: - 2 : IGMP version2 - 3 : IGMP version3	*optional parameter with default value: "3"* version for IGMP packet to receive/forward to n/w side
[no] user-mld-version	Parameter type: <Igmp::igmpSystemMLDGMQToUserSideVersion> Format: (1 | 2) Possible values: - 1 : MLDv1 GMQs - 2 : MLDv2 GMQs	*optional parameter with default value: "2"* version of the MLD protocol
[no] netw-mld-version	Parameter type: <Igmp::MldProcessingAdminStatus> Format: (1 | 2) Possible values: - 1 : MLDV1 version1 - 2 : MLDV2 version2	*optional parameter with default value: "2"* version for MLD packet to receive/forward to n/w side
[no] v3-max-num-rec	Parameter type: <Igmp::V3MaxNumRecordsReport> Format: - max number of records in an IGMPv3 membership report - range: [0...10]	*optional parameter with default value: 3* max num of group records in one IGMPv3 or MLDv2 report (2 exp N)
[no] forking	Parameter type: boolean	*optional parameter* enable IGMP forking in the system level
[no] lt-ont-signaling	Parameter type: boolean	*optional parameter*

Parameter	Type	Description
		enables lt to ont signaling at system level
[no] vlan-selection	Parameter type: boolean	*optional parameter* enable vlan selection
[no] disc-lwr-version	Parameter type: boolean	*optional parameter* discard lower version packets
[no] uncfg-mcast-supp	Parameter type: <Igmp::igmpSystemUncfgMcastSupport> Format: (legacy | asmandssm) Possible values: - legacy : enable un-configured SSM and ASM support for GPON LTs and un-configured ASM support alone for DSL LTs - asmandssm : enable unconfigured SSM and ASM support for GPON and DSL LT cards	*optional parameter with default value: "legacy"* enable un-configured SSM/ASM support for GPON/DSL LT cards

90.6 IGMP System CDR Type Configuration Command

Command Description

This command allows the operator to configure the IGMP system Call Detail Record

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-control system cdr-type [[no] periodic] [no period | period <Igmp::IntermGenCDRPeriod>] [[no] attempt-max-pview] [[no] attempt-blackout] [[no] attempt-no-perm]

Command Parameters

Table 90.6-2 "IGMP System CDR Type Configuration Command" Command Parameters

Parameter	Type	Description
[no] periodic	Parameter type: boolean	*optional parameter* interim CDR records generated for fullview/preview
[no] period	Parameter type: <Igmp::IntermGenCDRPeriod> Format: - intermediate CDR generation period, in multiples of 5 - unit: min - range: [15...60]	*optional parameter with default value: 15* intermediate CDR generation period
[no] attempt-max-pview	Parameter type: boolean	*optional parameter* CDR generated when max nbr preview exceeded is true
[no] attempt-blackout	Parameter type: boolean	*optional parameter* CDR generated allowed when blackout period is active
[no] attempt-no-perm	Parameter type: boolean	*optional parameter* CDR generated to join a mcast with no access rights

90.7 MLD Vlan System Configuration Command

Command Description

This command allows the operator to configure the MLD parameters on a per Vlan basis.

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-control ipv6

90.8 MLD Vlan System Configuration Command

Command Description

This command allows the operator to configure the MLD parameters on a per Vlan basis.

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-control ipv6 (no vlan (vlan-id)) | (vlan (vlan-id) netw-mld-version <Igmp::VlanMldV2ProcessStatus> [no mldv2-max-num-rec | mldv2-max-num-rec <Igmp::MldV2MaxNumRecordReport>])

Command Parameters

Table 90.8-1 "MLD Vlan System Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(vlan-id)	Format: - vlan index - range: [1...4093]	index of the system vlan

Table 90.8-2 "MLD Vlan System Configuration Command" Command Parameters

Parameter	Type	Description
netw-mld-version	Parameter type: <Igmp::VlanMldV2ProcessStatus> Format: (1 | 2) Possible values: - 1 : MLD version1 - 2 : MLD version2	*mandatory parameter* MLD version of the protocol
[no] mldv2-max-num-rec	Parameter type: <Igmp::MldV2MaxNumRecordReport> Format: - max num of group records in one MLDv2 report (2 exp N) - range: [0...10]	*optional parameter with default value: 3* max num of group records in one MLDv2 report (2 exp N)

90.9 IGMP Vlan System Configuration Command

Command Description

This command allows the operator to configure the IGMP parameters on a per Vlan basis.

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-control ipv4

90.10 IGMP Vlan System Configuration Command

Command Description

This command allows the operator to configure the IGMP parameters on a per Vlan basis.

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-control ipv4 (no vlan (vlan-id)) | (vlan (vlan-id) netw-igmp-version <Igmp::VlanV3ProcessStatus> [no v3-max-num-rec | v3-max-num-rec <Igmp::V3MaxNumRecordReport>])

Command Parameters

Table 90.10-1 "IGMP Vlan System Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(vlan-id)	Format: - vlan index - range: [1...4093]	index of the system vlan

Table 90.10-2 "IGMP Vlan System Configuration Command" Command Parameters

Parameter	Type	Description
netw-igmp-version	Parameter type: <Igmp::VlanV3ProcessStatus> Format: (2 | 3) Possible values: - 2 : IGMP version2 - 3 : IGMP version3	*mandatory parameter* IGMP version of the protocol
[no] v3-max-num-rec	Parameter type: <Igmp::V3MaxNumRecordReport> Format: - max num of group records in one IGMPv3 or MLDv2 report (2 exp N) - range: [0...10]	*optional parameter with default value: 3* max num of group records in one IGMPv3 report (2 exp N)

90.11 mcast Multicast Vlan Translation Command

Command Description

This command allows the operator configure source-pon vlan translation.

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-control (no mc-vlan-xlate (nwvlan)) | (mc-vlan-xlate (nwvlan) ponvlan <Igmp::mcPonVlanId>)

Command Parameters

Table 90.11-1 "mcast Multicast Vlan Translation Command" Resource Parameters

Resource Identifier	Type	Description
(nwvlan)	Format: - the multicast vlan id - range: [2...4093]	identification of the network-side virtual lan

Table 90.11-2 "mcast Multicast Vlan Translation Command" Command Parameters

Parameter	Type	Description
ponvlan	Parameter type: <Igmp::mcPonVlanId> Format: - vlan index - range: [1...4093]	*mandatory parameter* identification of the pon-side virtual lan

90.12 Multicast Pon Vlan Translation Command

Command Description

This command allows the operator configure source-pon vlan translation on pon port.

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-control (no mc-pon-vlan-xlate (pon) nwvlan <Igmp::mcSrcVlanId>) | (mc-pon-vlan-xlate (pon) nwvlan <Igmp::mcSrcVlanId> ponvlan <Igmp::mcPonVlanId>)

Command Parameters

Table 90.12-1 "Multicast Pon Vlan Translation Command" Resource Parameters

Resource Identifier	Type	Description
(pon)	Format: <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> 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::PonId> - the PON identifier	identification of the pon interface
nwvlan	Parameter type: <Igmp::mcSrcVlanId> Format: - the multicast vlan id - range: [2...4093]	identification of the network-side virtual lan

Table 90.12-2 "Multicast Pon Vlan Translation Command" Command Parameters

Parameter	Type	Description
ponvlan	Parameter type: <Igmp::mcPonVlanId> Format: - vlan index - range: [1...4093]	*mandatory parameter* identification of the pon-side virtual lan

90.13 Multicast Service Context Configuration Command

Command Description

This command allows the operator to configure multicast service context

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-control (no mcast-svc-context (name)) | (mcast-svc-context (name))

Command Parameters

Table 90.13-1 "Multicast Service Context Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(name)	Format: - a profile name - range: [a-zA-Z0-9-_.] - length: 1<=x<=32	A unique profile name for the service context

90.14 mcast Package Bitmaps Configuration Command

Command Description

This command allows the operator to configure mcast package bitmaps. The package is intended primarily for use by a network/element manager, such as an AMS, to support multiple sets of packages in different regions.

A package is a group of zero or more multicast sources that share a common access permission. Grouping the source channels into one or more packages provides flexibility for the service provider to deliver different levels of services to the end users; for example, "Basic Package", "Middle-Tier Package", and "Premium Package".

NOTE:There is no requirement to configure the package. If the package is modified, there is no effect on the multicast source.

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-control package (index) [no name | name <Igmp::igmpPackageName>] [no template-name | template-name <Igmp::igmpPackageTemplateName>] [no template-version | template-version <Igmp::igmpPackageTemplateVersion>]

Command Parameters

Table 90.14-1 "mcast Package Bitmaps Configuration Command" Resource Parameters

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

Table 90.14-2 "mcast Package Bitmaps Configuration Command" Command Parameters

Parameter	Type	Description
[no] name	Parameter type: <Igmp::igmpPackageName> Format: - a printable string - length: x<=32	*optional parameter with default value: ""* name of the package
[no] template-name	Parameter type: <Igmp::igmpPackageTemplateName> Format: - a printable string - length: x<=32	*optional parameter with default value: ""* name of the service template containing this pkg
[no] template-version	Parameter type: <Igmp::igmpPackageTemplateVersion> Format: - version of the service template containing this package	*optional parameter with default value: 0* version of the service template

Parameter	Type	Description
	- range: [0...65535]	containing this pkg