

29- IGMP Configuration Commands

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29.1 IGMP Configuration Command Tree

Description

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

Command Tree

```

----configure
  ----igmp
    ----[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] 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] fullview-packages
        - (package)
      ----[no] preview-packages
        - (package)
    ----package
      - (index)
      - [no] name
      - [no] template-name
      - [no] template-version
    ----system
      - [no] 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] 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
- [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)**

29.2 IGMP Channel Configuration Command

Command Description

This command allows the operator to create and configure the IGMP 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 igmp ( 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 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> ] )
```

Command Parameters

Table 29.2-1 "IGMP 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> / <Eqpt::OntPortId> : <Eqpt::UnstackedVlan>	identification of the port, vlanport or virtual channel

Resource Identifier	Type	Description
	<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 Field type <Eqpt::Ng2OntId>	

Resource Identifier	Type	Description
	<ul style="list-style-type: none"> - the NG2 ONT identifier <p>Field type <Eqpt::OntId></p> <ul style="list-style-type: none"> - the ONT identifier <p>Possible values:</p> <ul style="list-style-type: none"> - voip : virtual uni identifier <p>obsolete alternative replaced by vuni</p> <ul style="list-style-type: none"> - vuni : virtual uni identifier <p>Possible values:</p> <ul style="list-style-type: none"> - vuni : virtual NGPON2 uni identifier <p>Field type <Eqpt::OntSlotId></p> <ul style="list-style-type: none"> - the ONT SLOT identifier <p>Field type <Eqpt::OntPortId></p> <ul style="list-style-type: none"> - the ONT PORT identifier <p>Field type <Eqpt::Ng2OntSlotId></p> <ul style="list-style-type: none"> - the NGPON2 ONT SLOT identifier <p>Field type <Eqpt::Ng2OntPortId></p> <ul style="list-style-type: none"> - the NGPON2 ONT PORT identifier <p>Field type <Eqpt::LLId></p> <ul style="list-style-type: none"> - the LLID identifier,range 1 for EPON,range 1-8 for DPOE <p>Possible values:</p> <ul style="list-style-type: none"> - stacked : stacked vlan identity <p>Field type <Eqpt::UnstackedVlan></p> <ul style="list-style-type: none"> - unstacked vlan id <p>Field type <Eqpt::SVlan></p> <ul style="list-style-type: none"> - service vlan id <p>Field type <Eqpt::CVlan></p> <ul style="list-style-type: none"> - customer vlan id 	

Table 29.2-2 "IGMP Channel Configuration Command" Command Parameters

[illegible]

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Parameter	Type	Description
	- range: [0...2048]	refer to the product information document for detail.
[no] mode	Parameter type: <Igmp::ChannelProtocolMode> Format: (ipoe ppoe) Possible values: - ipoe : IPoE mode - ppoe : PPPoE mode	<i>optional parameter with default value: "ipoe"</i> protocol mode (ipoe or ppoe)
(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	<i>obsolete parameter that will be ignored</i> 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	<i>obsolete parameter that will be ignored</i> enables IP@ anti-spoofing on this user-interface
[no] igmp-version	Parameter type: <Igmp::UserIrfVersion> Format: (system-inherited 2 3) Possible values: - system-inherited : inherits GMQs to userversion from the system level - 2 : IGMPV2 GMQs - 3 : IGMPV3 GMQs	<i>optional parameter with default value: "system-inherited"</i> version of the IGMP 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	<i>optional parameter with default value: "system-inherited"</i> forking status of the IGMP protocol
[no] lt-ont-signaling	Parameter type: <Igmp::ChannelLtOntSignaling> Format: (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	<i>optional parameter with default value: "inherited"</i> <i>The parameter is not visible during modification.</i> 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	<i>optional parameter with default value: 8</i> default P-bit value to be used by the ONT on the UNI-side for

Parameter	Type	Description
	- range: [0...8]	downstream multicast traffic towards subscribers
[no] mcast-vlan-id	Parameter type: <Igmp::ProtocolMcastVlan> Format: - vlan selection value - range: [0...4093]	<i>optional parameter with default value: 0</i> 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	<i>optional parameter with default value: "disabled"</i> 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.	<i>optional parameter with default value: "default"</i> 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]	<i>optional parameter with default value: 0</i> 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]

29.3 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 igmp channel (port) ( no fullview-packages (package) ) | ( fullview-packages (package) )
```

Command Parameters

Table 29.3-1 "IGMP Channel Permission Package Members Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(port)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpId> : <Eqpt::VcId> <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpId> : <Eqpt::VcId> : <Eqpt::UnstackedVlan> vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::UnstackedVlan> vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpId> : <Eqpt::VcId> : 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	

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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

29.4 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 igmp channel (port) ( no preview-packages (package) ) | ( preview-packages (package) )
```

Command Parameters

Table 29.4-1 "IGMP Channel Preview Package Members Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(port)	Format: (<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpId> : <Eqpt::VcId> <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpId> : <Eqpt::VcId> : <Eqpt::UnstackedVlan> vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::UnstackedVlan> vlan : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpId> : <Eqpt::VcId> : 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

29.5 IGMP Package Bitmaps Configuration

Command

Command Description

This command allows the operator to configure IGMP 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 igmp package (index) [ no name | name <Igmp::igmpPackageName> ] [ no template-name |
template-name <Igmp::igmpPackageTemplateName> ] [ no template-version | template-version
<Igmp::igmpPackageTemplateName> ]
```

Command Parameters

Table 29.5-1 "IGMP Package Bitmaps Configuration Command" Resource Parameters

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

Table 29.5-2 "IGMP Package Bitmaps Configuration Command" Command Parameters

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

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

29.6 IGMP System Configuration Command

Command Description

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

When Configure igmp system uncfg-mcast-supp = asmandssm this works properly if only one SSM/ASM channel per multicast destination address per vlan is distributed in the network, and if the end-users only send IGMPv3 joins for source addresses matching these distributed channels. These restrictions should be respected, else it is recommended to permit only configured SSM, i.e. Configure igmp system uncfg-mcast-supp = legacy.

If Uncfg-mcast-supp goes from AsmandSsm to Legacy, there is a transient period during a few GMI periods before full Legacy behaviour is achieved

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 igmp system [ no src-ip-address | src-ip-address <Ip::V4Address> ] [ [ 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-rsp-tim | last-max-rsp-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 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 29.6-2 "IGMP System Configuration Command" Command Parameters

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

Parameter	Type	Description
	Format: - interval at which general membership queries transmitted - unit: sec - range: [2...3175]	<i>value: 125</i> 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]	<i>optional parameter with default value: 100</i> 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]	<i>optional parameter with default value: 2</i> 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]	<i>optional parameter with default value: 10</i> 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]	<i>optional parameter with default value: 2</i> number of GSQs (group-specific queries) to be sent
[no] last-max-rsp-tim	Parameter type: <Igmp::SystemLastMembMaxRespTime> Format: - allows shorter max response time - unit: 1/10 sec - range: [1...31744]	<i>optional parameter with default value: 2</i> 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]	<i>optional parameter with default value: 10</i> interval of repetitions of host's report of grp membership
[no] start	Parameter type: boolean	<i>optional parameter</i> 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]	<i>optional parameter with default value: 8</i> 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]	<i>optional parameter with default value: 2</i> minimum session time for generating a CDR
[no] cdr-generation	Parameter type: boolean	<i>optional parameter</i> 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]	<i>optional parameter with default value: 3</i> limit the generation of the CDR records

29 IGMP Configuration Commands

Parameter	Type	Description
[no] cdr-export	Parameter type: <Igmpp::CDRGenerationMethod> Format: (local-file-storage remote-logging) Possible values: - local-file-storage : method the cdr generated and forwarded - remote-logging : remote logging method	<i>optional parameter with default value: "local-file-storage"</i> the method the cdr is to be generated and forwarded
[no] cdr-file-aging	Parameter type: <Igmpp::CDRFileAgingTime> Format: - configure the CDR file aging time - unit: hour - range: [4...24]	<i>optional parameter with default value: 8</i> configure the CDR file aging time
[no] cdr-polling	Parameter type: <Igmpp::CDRSystemPollingCycle> Format: - configure the polling period for the CDR records, in multiples of 60 - unit: sec - range: [60...900]	<i>optional parameter with default value: 180</i> configure the polling period for the CDR records
[no] user-igmp-version	Parameter type: <Igmpp::igmpSystemGMQToUserSideVersion> Format: (2 3) Possible values: - 2 : IGMPv2 GMQs - 3 : IGMPv3 GMQs	<i>optional parameter with default value: "3"</i> version of the IGMP protocol
[no] netw-igmp-version	Parameter type: <Igmpp::V3ProcessingAdminStatus> Format: (2 3) Possible values: - 2 : IGMP version2 - 3 : IGMP version3	<i>optional parameter with default value: "3"</i> version for IGMP packet to receive/forward to n/w side
[no] v3-max-num-rec	Parameter type: <Igmpp::V3MaxNumRecordsReport> Format: - max number of records in an IGMPv3 membership report - range: [0...10]	<i>optional parameter with default value: 3</i> max num of group records in one IGMPv3 or MLDv2 report (2 exp N)
[no] forking	Parameter type: boolean	<i>optional parameter</i> enable IGMP forking in the system level
[no] lt-ont-signaling	Parameter type: boolean	<i>optional parameter</i> enables lt to ont signaling at system level
[no] vlan-selection	Parameter type: boolean	<i>optional parameter</i> enable vlan selection
[no] disc-lwr-version	Parameter type: boolean	<i>optional parameter</i> discard lower version packets
[no] uncfg-mcast-supp	Parameter type: <Igmpp::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	<i>optional parameter with default value: "legacy"</i> enable un-configured SSM/ASM support for GPON/DSL LT cards

Parameter	Type	Description
	for GPON and DSL LT cards	

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

Command Parameters

Table 29.7-2 "IGMP System CDR Type Configuration Command" Command Parameters

Parameter	Type	Description
[no] periodic	Parameter type: boolean	<i>optional parameter</i> 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]	<i>optional parameter with default value: 15</i> intermediate CDR generation period
[no] attempt-max-pview	Parameter type: boolean	<i>optional parameter</i> CDR generated when max nbr preview exceeded is true
[no] attempt-blackout	Parameter type: boolean	<i>optional parameter</i> CDR generated allowed when blackout period is active
[no] attempt-no-perm	Parameter type: boolean	<i>optional parameter</i> CDR generated to join a mcast with no access rights

29.8 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 igmp ( 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 29.8-1 "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 29.8-2 "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	<i>mandatory parameter</i> 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]	<i>optional parameter with default value: 3</i> max num of group records in one IGMPv3 report (2 exp N)

29.9 IGMP 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 igmp ( no mc-vlan-xlate (nwvlan) ) | ( mc-vlan-xlate (nwvlan) ponvlan <Igmp::mcPonVlanId> )
```

Command Parameters

Table 29.9-1 "IGMP 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 29.9-2 "IGMP Multicast Vlan Translation Command" Command Parameters

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

29.10 IGMP 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 igmp ( no mc-pon-vlan-xlate (pon) nwvlan <Igmp::mcSrcVlanId> ) | ( mc-pon-vlan-xlate (pon) nwvlan
<Igmp::mcSrcVlanId> ponvlan <Igmp::mcPonVlanId> )
```

Command Parameters

Table 29.10-1 "IGMP 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 29.10-2 "IGMP Multicast Pon Vlan Translation Command" Command Parameters

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

29.11 Igmp 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 igmp (no mcast-svc-context (name)) | (mcast-svc-context (name))

Command Parameters

Table 29.11-1 "Igmp 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