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Command	
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Command	

22.1 VLAN Configuration Command Tree

Description

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

Command Tree

----configure ----vlan

- [no] broadcast-frames
- priority-policy
- ----vmac-address-format
 - host-id
- ----[no] id
 - (vlanid)
 - [no] name
 - mode
 - [no] sntp-proxy
 - [no] priority
 - [no] vmac-translation
 - [no] vmac-dnstr-filter
 - [no] vmac-not-in-opt61
 - [no] new-broadcast
 - [no] protocol-filter
 - [no] pppoe-relay-tag

X [no] dhcp-opt-82

- [no] dhcp-opt82-ext
- [no] dhcp-opt82-nni
- [no] dhcp-opt82-uplink
- [no] circuit-id-dhcp
- [no] remote-id-dhcp
- [no] relay-id-dhcp
- [no] dhcp-linerate
- [no] pppoe-linerate
- [no] dhcpv6-linerate
- [no] pppoe-l2-encaps
- [no] dhcp-12-encaps
- [no] dhcpv6-12-encaps
- [no] 12-encaps1
- [no] pppoer-vlanaware
- [no] dhcpr-vlanaware
- [no] dhcpv6r-vlanaware
- [no] drly-srv-usr-side
- [no] circuit-id-pppoe
- [no] remote-id-pppoe
- [no] new-secure-fwd
- [no] aging-time
- [no] 12cp-transparent
- [no] dhcpv6-itf-id
- [no] dhcpv6-remote-id
- [no] dhcpv6-relay-id
- [no] dhcpv6-trst-port

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- [no] enterprise-number
- [no] icmpv6-sec-fltr
- [no] in-qos-prof-name
- [no] ipv4-mcast-ctrl [no] ipv6-mcast-ctrl
- [no] mac-mcast-ctrl
- [no] dis-proto-rip
- [no] proto-ntp
- [no] dis-ip-antispoof
- [no] unknown-unicast
- [no] pt2ptgem-flooding
- [no] mac-movement-ctrl
- [no] cvlan4095passthru
- [no] arp-snooping
- [no] arp-polling
- [no] arp-polling-ip [no] mac-unauth
- ----[no] unicast-mac
 - (unicast-mac) - vlan-id
 - forward-port

----[no] vlan-port

- (port)
- unicast-mac

----[no] port-protocol

- (port)
- protocol-group
- vlan-id
- priority

----pbit-statistics

- ----[no] port
 - (vlan-port)
 - min-dot1p
 - max-dot1p

----[no] priority-regen

- (profile-idx)
- profile-name
- [no] pbit0
- [no] pbit1
- [no] pbit2
- [no] pbit3
- [no] pbit4
- [no] pbit5
- [no] pbit6
- [no] pbit7

22.2 VLAN General Configuration Command

Command Description

This command allows the operator to specify VLAN parameters that are globally applicable to VLANs:

- broadcast-frames: applies to VLANs of type residential bridge.when configured,broadcasting of frames is configurable on a per vlan basis, when the parameter is configured as "no broadcast-frames", downstream broadcast is disabled globally for all vlans.
- priority-policy: applies to VLANs of type residential bridge, cross-connect and QoS-aware. Indicates if the priority of upstream frames is selected from the vlan (pvid) or port-default. This configuration is only applicable for untagged user traffic.

User Level

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

Command Syntax

The command has the following syntax:

> configure vlan [[no] broadcast-frames] priority-policy <Vlan::PriorityMap>

Command Parameters

Table 22.2-2 "VLAN General Configuration Command" Command Parameters

Parameter	Type	Description
[no] broadcast-frames	Parameter type: boolean	optional parameter
		broadcasting of frames is
		configurable per vlan
priority-policy	Parameter type: <vlan::prioritymap></vlan::prioritymap>	optional parameter
	Format:	specifies how to deal with
	(vlan-specific	ethernet priority of the upstream
	port-default)	frames
	Possible values:	
	- vlan-specific : the priority of the vlan	
	- port-default : the default priority of the port	

22.3 Virtual MAC Configuration Command

Command Description

This command allows the user to configure the format in which a virtual MAC address is defined.

User Level

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

Command Syntax

The command has the following syntax:

> configure vlan vmac-address-format [host-id <Vlan::vmacUniqueHostID>]

Command Parameters

Table 22.3-2 "Virtual MAC Configuration Command" Command Parameters

Parameter	Type	Description
host-id	Parameter type: <vlan::vmacuniquehostid></vlan::vmacuniquehostid>	optional parameter
	Format:	Value of vMac unique host ID.
	- A unique host Id within an EMAN connected to the same	
	IP edges. Maximum supported value in GPON is 65535.	
	- range: [1524287]	

Command Description

This command allows the operator to specify a VLAN and its attributes.

The VLAN numbering space is the concatenation of a Service Provider VLAN, say S-VLAN-ID, and a Customer VLAN, say C-VLAN-ID. Remark that the S-VLAN-ID is assumed to be unique.

The VLAN-ID value "0" - which is not a valid VLAN-tag value - is used to indicate "not applicable". The value 4097 should not be used as a valid forwarding VLAN.

Following convention applies:

- S-VLAN is identified as (S-VLAN-ID, C-VLAN-ID=0)
- unstacked C-VLAN identified as (C-VLAN-ID>0)
- the S-VLAN is absent or not applicable
- C-VLAN-ID > 0. A constraint exists for VLAN 1: it is reserved as the VLAN-unaware bridge. This VLAN is managed as any other VLAN (i.e. it can be created, modified, removed) but it must be a residential bridged VLAN.
- stacked C-VLAN is identified as (S-VLAN-ID>1, C-VLAN-ID>1)
- RIP will be enabled automatically by default during the creation of VLAN.

The following combination is not allowed:pppoe-relay-tag=configurable, while circuit-id-pppoe and remote-id-pppoe are both disable or customer-id or physical-id.

The circuit-id-pppoe and remote-id-pppoe take effect when the pppoe-relay-tag is configurable.

The pppoe-l2-encaps take effect when the pppoe-relay-tag is true or configurable.

- relay-id-dhcp: This parameter is used to enable/disable relay-id for DHCPv4.

The circuit-id-dhcp, remote-id-dhcp, relay-id-dhcp, dhcp-linerate and dhcp-l2-encaps take effect when the dhcp-opt-82 is true or dhcp-opt82-ext or dhcp-opt82-nni or dhcp-opt82-uplink is enable or add-or-replace or add-or-forward.

- pppoe-l2-encaps: This controls insertion of access loop encapsulation sub-options part of PPPoE relay tag Refer to (R-164 in TR101) Datalink byte: ATM or Ethernet autogenerated according to actual encapsulation Encaps 1 byte: configurable (see further down) Encaps 2 byte: fixed as NA
- dhcp-l2-encaps: This controls insertion of access loop encapsulation sub-options part of DHCP option 82 Refer to (R-164 in TR101) Datalink byte: ATM or Ethernet autogenerated according to actual encapsulation Encaps 1 byte: configurable (see further down) Encaps 2 byte: fixed as NA
- dhcpv6-l2-encaps: This controls insertion of access loop encapsulation sub-options part of DHCPv6 relay tag Refer to (R-164 in TR101) Datalink byte: ATM or Ethernet autogenerated according to actual encapsulation Encaps 1 byte: configurable (see further down) Encaps 2 byte: fixed as NA
- l2-encaps1: This specifies the value of access loop encapsulation sub-options value 1 for DHCPv4, DHCPv6 and PPPoE protocol relay tags
- new-broadcast: applies to VLANs of type residential bridge. The configured value of this parameter has no meaning when broadcast-frames is not enabled at node level, meaning globally for all VLANs
- priority: The selection of the VLAN-based priority can apply provided the priority-policy at node-level is vlan-specific.
- vmac-translation: this configuration value has no effect in case MAC learning is disabled (mac-learn-off).
- Note that vmac-translation, vmac-dnstr-filter and vmac-not-in-opt61 parameters can be enabled only at S-VLAN

level in case of S+C-VLAN CC mode.

- ipv6-mcast-ctrl: This parameter is used in the following cases: on the NGLT-A GPON line card, ipv6-mcast-ctrl parameter is used to allow or disallow upstream and downstream IPv6 multicast traffic for all other line cards, in case no DHCPv6 protocol processing is performed on the line card (i.e. new-secure-fwd,dhcpv6-itf-id,dhcpv6-remote-id and dhcpv6-relay-id are all disabled), the ipv6-mcast-ctrl parameter is used to control upstream and downstream DHCPv6 multicast traffic
- drly-srv-usr-side: This parameter is to enable/disable DHCP(v4/v6) server transparency at the user side when DHCP(v4/v6) relay is enabled. This parameter can be enabled only when Secure forwarding and vMaC translation are both disabled. This parameter is supported only on CC forwarder.
- dhcpv6-relay-id: This parameter is used to enable/disable relay-id for DHCPv6
- pppoer-vlanaware: This parameter is to configure the number of VLAN tags on the user side upto which PPPoE protocol awareness should be enabled. This configuration is applicable only for S+C CC forwarder.
- dhcpr-vlanaware: This parameter is to configure the number of VLAN tags on the user side upto which DHCPv4 protocol awareness should be enabled. This configuration is applicable only for S+C CC forwarder.
- dhcpv6r-vlanaware: This parameter is to configure the number of VLAN tags on the user side upto which DHCPv6 protocol awareness should be enabled. This configuration is applicable only for S+C CC forwarder.

User Level

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

Command Syntax

The command has the following syntax:

> configure vlan (no id (vlanid)) | (id (vlanid) [no name | name < Vlan::AdminString>] mode <Vlan::SystemMode> [[no] sntp-proxy] [no priority | priority <Vlan::Priority>] [[no] vmac-translation] [[no vmac-dnstr-filter] [[no] vmac-not-in-opt61] [no new-broadcast | new-broadcast < Vlan::NewStaticBrdcastControl>] [no protocol-filter | protocol-filter < Vlan::ProtGroup>] [no pppoe-relay-tag | pppoe-relay-tag <Vlan::PppoeRelayEnableR3.1>] [[no] dhcp-opt-82] [no dhcp-opt82-ext | dhcp-opt82-ext <Vlan::DhcpOption82Ext>] [no dhcp-opt82-nni | dhcp-opt82-nni <Vlan::Option82Nni>] [no dhcp-opt82-uplink | dhep-opt82-uplink <Vlan::Option82Uplink>] [no circuit-id-dhep | circuit-id-dhep <Vlan::CircuitIdDhep>] [no remote-id-dhcp | remote-id-dhcp < Vlan::RemoteIdDhcp>] [no relay-id-dhcp | relay-id-dhcp < Vlan::RelayIdDhcp> no dhcp-linerate | dhcp-linerate | Vlan::Dhcp-linerate | pppoe-linerate | pppoe-linerate <Vlan::Pppoe-linerate>] [no dhcpv6-linerate | dhcpv6-linerate <Vlan::Dhcpv6-linerate>] [no pppoe-l2-encaps | pppoe-l2-encaps <Vlan::PppoeAccessEncap>] [no dhcp-l2-encaps | dhcp-l2-encaps <Vlan::DhcpAccessEncap>] no dhcpv6-12-encaps | dhcpv6-12-encaps <Vlan::Dhcpv6AccessEncap>] no 12-encaps1 | 12-encaps1 <Vlan::AccessLoopEncaps1>] [no pppoer-vlanaware | pppoer-vlanaware <Vlan::PppoeRelayVlanAware>] [no dhcpr-vlanaware | dhcpr-vlanaware < Vlan::DhcpRelayVlanAware>] [no dhcpv6r-vlanaware | dhcpv6r-vlanaware <Vlan::Dhcpv6RelayVlanAware>] [no drly-srv-usr-side | drly-srv-usr-side <Vlan::DRlySrvAtUsrSide>] [no circuit-id-pppoe | circuit-id-pppoe | circuit-id-pppoe | remote-id-pppoe | remote-id-pppoe | remote-id-pppoe <Vlan::RemoteIdPppoe>] [no new-secure-fwd | new-secure-fwd <Vlan::NewSecureForward>] [no aging-time | aging-time <Vlan::MacAgingTime>] [no] l2cp-transparent] [no dhcpv6-itf-id | dhcpv6-itf-id <Vlan::Dhcpv6InterfaceId> | [no dhcpv6-remote-id | dhcpv6-remote-id <Vlan::Dhcpv6RemoteId> | [no dhcpv6-relay-id | dhcpv6-relay-id <Vlan::Dhcpv6RelayId>] [no dhcpv6-trst-port | dhcpv6-trst-port <Vlan::Dhcpv6TrstPort> | [no enterprise-number | enterprise-number <Vlan::Enterprisenumber> | [no] icmpv6-sec-fltr] [no in-qos-prof-name | in-qos-prof-name <Qos::QosIngressProfileName>] [[no] ipv4-mcast-ctrl] [[no] ipv6-mcast-ctrl] [[no] mac-mcast-ctrl] [[no] dis-proto-rip] [[no] proto-ntp] [[no] dis-ip-antispoof] [no] unknown-unicast] [no] pt2ptgem-flooding] [no] mac-movement-ctrl] [no cvlan4095passthru | cvlan4095passthru < Vlan::cvlan4095Passthru>] [[no] arp-snooping] [[no] arp-polling] [no arp-polling-ip | arp-polling-ip <Ip::V4Address>] [[no] mac-unauth])

Command Parameters

Table 22.4-1 "VLAN Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(vlanid)	Format:	VLAN id
	(<network::uvlanindex></network::uvlanindex>	
	stacked : <network::svlanindex> :</network::svlanindex>	
	<network::cvlanindex>)</network::cvlanindex>	
	Possible values:	
	- stacked : stacked vlan identity	
	Field type <network::uvlanindex></network::uvlanindex>	
	- unstacked vlan identity	
	- range: [14093]	
	Field type <network::svlanindex></network::svlanindex>	
	- service vlan identity	
	- range: [24093]	
	Field type <network::cvlanindex></network::cvlanindex>	
	- customer vlan identity	
	- range: [04093]	

Table 22.4-2 "VLAN Configuration Command" Command Parameters

Parameter	Type	Description
[no] name	Parameter type: <vlan::adminstring></vlan::adminstring>	optional parameter with default
	Format:	value: ""
	- char string	VLAN name
	- length: x<=80	
mode	Parameter type: <vlan::systemmode></vlan::systemmode>	mandatory parameter
	Format:	VLAN mode
	(cross-connect	
	residential-bridge	
	qos-aware	
	layer2-terminated	
	mirror)	
	Possible values:	
	- cross-connect : crossconnect vlan	
	- residential-bridge : residential bridge vlan	
	- qos-aware : qos aware vlan	
	- layer2-terminated : layer2 terminated vlan	
	- mirror : mirror vlan	
[no] sntp-proxy	Parameter type: boolean	optional parameter
		enable SNTP proxy
[no] priority	Parameter type: <vlan::priority></vlan::priority>	optional parameter with default
	Format:	value: 0
	- priority of ethernet frames	default frame priority
	- range: [07]	
[no] vmac-translation	Parameter type: boolean	optional parameter
		The parameter is not visible
		during creation.
		enable virtual Mac address
		translation
[no] vmac-dnstr-filter	Parameter type: boolean	optional parameter
		The parameter is not visible
		during creation.
		enable virtual Mac source address
		downstream blocking
[no] vmac-not-in-opt61	Parameter type: boolean	optional parameter

Ino new-broadcast Parameter type: <vlan::newstaticbrdcastcontrol> Possible values: (inherit lenable disable disable lenable disable lenable disable lenable disable lenable lenable disable Possible values: - inherit : for \$4-C VLAN: inherit from \$ VLAN level if existing; for \$5 or \$C VLAN: inherit from \$ VLAN level if existing; for \$5 or \$C VLAN: inherit from default fixed system value (which is disable) - enable : new switch broadcast frames - disable : new disable disable :</vlan::newstaticbrdcastcontrol>	Parameter	Туре	Description
cnable cnable chable control coptional parameter with defau value: "inherit switch downstream broadcast lenable disable control			skip vmac translation in dhep
Format: (inherit (enable I disable) Possible values: - inherit : for \$+C VLAN: inherit from \$S VLAN level if existing; for \$G or \$C VLAN: inherit from default fixed system value (which is disable) - enable : new switch broadcast frames [no] protocol-filter Parameter type: <vlan::protgroup> Format: (pass-all pass-ppoe pass-ipoe pass-ppoe-ipoe pass-ppoe-ipoe pass-ppoe-ipoe pass-ppoe-ipoe : pass traffic of PPPoE protocol group - pass-ppoe-ipoe : pass traffic of PPvoE protocol group - pass-ppoe-ipoe : pass PPPoE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass PPPoE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass PPPoE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass PPPoE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass PPPoE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass PPPoE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass PPPoE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipoe-ipv6oe : pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipoe-ipv6oe : pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe : pass IPv4oE and IPv6oE portocol groups - pass-ppoe-ipoe-ipv6oe : pass IPv4oE and IPv6oE portocol groups - pass-ppoe-ipoe-ipoe-ipoe-ipoe-ipoe-ipoe-ipoe</vlan::protgroup>			enabled
(inherit enable disable) Possible values: - inherit : for S+C VLAN: inherit from S VLAN level if existing; for S or C VLAN: inherit from default fixed system value (which is disable) - enable : new switch broadcast frames - disable : new disable - disable : new disable broadcast frames - disable : new disa	[no] new-broadcast	* *	
Canable disable Possible values: - inherit : for S+C VLAN: inherit from S VLAN level if existing; for S or C VLAN: inherit from default fixed system value (which is disable) - enable: new switch broadcast frames - disable: new disable broadcast frames - disable: new disable: new disable broadcast frames - disable: new dis			
Idisable Possible values: - inherit : for S+C VLAN: inherit from S VLAN level if existing; for S or C VLAN: inherit from default fixed system value (which is disable) - enable : new switch broadcast frames			
Possible values: - inherit : for S+C VLAN: inherit from S VLAN level if existing; for S or C VLAN: inherit from default fixed system value (which is disable) - enable : new switch broadcast frames - disable : new disable broadcast frames Parameter type: <vlan::protgroup> Format: (pass-all</vlan::protgroup>			
- inherit : for S+C VLAN: inherit from S VLAN level if existing: for S or C VLAN: inherit from default fixed system value (which is disable) - enable : new switch broadcast frames - disable : new disable broadcast frames Parameter type: <vlan::protgroup> Format:</vlan::protgroup>			
value (which is disable) - enable : new switch broadcast frames - disable : new disable broadcast frames			controlled at S-VLAN level, not
enable : new switch broadcast frames disable : new disable broadcast frames			
Ino protocol-filter			level.)
Parameter type: <vlan::protgroup> Format: (pass-all pass-ppoe pass-ipoe pass-ipo</vlan::protgroup>			
Format: (pass-appoe pass-ippoe pass-ippoe pass-ippoe pass-ippoe pass-ippoe pass-ippoe pass-ippoe pass-ippoe pass-ippoe-ipv6oe pass-ippoe-ipv6oe pass-ippoe-ipv6oe pass-ippoe	[mo] muotocol filtan		antiqual nanguestan with default
(pass-all pass-ppoe pass-ipoe pass-ipoe pass-ipoe pass-ipoe pass-ipoe pass-ipoe pass-ipoe pass-ipoe pass-ipoée pass-ipoée pass-ipoe-ipoée pass-ipoe-ipoée pass-ipoe-ipoée pass-ipoe-ipoée pass-ppoe-ipoe-ipoée pass-ppoe pass-ipoe pass	[no] protocol-litter		
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pass-ipoe pass-ppoe-ipoe pass-ipv6oe pass-ppoe-ipv6oe pass-ppoe-ipv6oe pass-ppoe-ipv6oe pass-ppoe-ipv6oe pass-ppoe-ipoe-ipv6oe pass-ppoe-ipoe-ipv6oe pass-ppoe-ipoe-ipv6oe pass-ppoe : pass traffic of PPv0E protocol group pass-ppoe : pass traffic of IPv4oE protocol group pass-ppoe-ipoe : pass traffic of IPv4oE protocol group pass-ppoe-ipv6oe : pass PPv0E and IPv4oE protocol group pass-ppoe-ipv6oe : pass PPv0E and IPv6oE protocol group pass-ppoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups pass-ipv6oe : pass IPv4oE and IPv6oE protocol groups pass-ppoe-ipv6oe : pass PPv0E, IPv4oE and IPv6oE protocol groups pass-ppoe-ipv6oe: pass-ppoe-ipv6oe: pass PPv0E, IPv4oE and IPv6oE protocol groups pass-ppoe-ipv6oe: pass-ppoe-ipv6oe: pass PPv0E, IPv4oE and IPv6oE protocol groups pass-ppoe-ipv6oe: pas		` •	control protocol group inters
pass-pppoe-ipoe pass-ipv6oe pass-ipv6oe pass-ipv6oe pass-pppoe-ipv6oe pass-ppoe-ipv6oe pass-ppoe-ipv6oe pass-ppoe-ipv6oe pass-ppoe-ipv6oe pass-ppoe-ipv6oe pass-ppoe-ipv6oe pass-ppoe : pass all traffic pass-ppoe : pass traffic of PPPoE protocol group pass-ipoe : pass traffic of IPv4oE protocol group pass-ppoe-ipv6oe : pass PPPoE and IPv6oE protocol group pass-ppoe-ipv6oe : pass PPPoE and IPv6oE protocol group pass-ppoe-ipv6oe : pass PPPoE and IPv6oE protocol groups pass-ppoe-ipv6oe : pass PPPoE and IPv6oE protocol groups pass-ppoe-ipv6oe : pass PPPoE, IPv4oE and IPv6oE protocol groups pass-ppoe-ipv6oe: pass-ppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups pass-ppoe-ipv6oe: pass-ppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups pass-ppoe-ipv6oe: pass-ppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups pass-ppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups pass-ppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups pass-ppoe-ipv6oe: pass PPPoE, IPv4oE and			
pass-ppoe-ipv6oe pass-ppoe-ipv6oe pass-ppoe-ipv6oe pass-ppoe-ipoe-ipv6oe pass-ppoe-ipoe-ipoe-ipv6oe pass-ppoe : pass all traffic pass-ppoe : pass traffic of PPv6E protocol group pass-ipoe : pass traffic of IPv4oE protocol group pass-ipoe : pass traffic of IPv4oE protocol group pass-ipv6oe : pass traffic of IPv6oE protocol group pass-ipv6oe : pass traffic of IPv6oE protocol group pass-ipv6oe : pass IPv4oE and IPv6oE protocol groups pass-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups pass-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups pass-pppoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups Parameter type: <vlan::pppoerelayenabler3.1> optional parameter with defauxalue: "false" configurable false configurable Possible values: true : pppoe tag configurable : circuit-id-ppoe and remote-id-ppoe controlling format Parameter type: boolean obsolete parameter replaced parameter "dhcp-opt82-ext" The parameter is not visib</vlan::pppoerelayenabler3.1>			
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- pass-all: pass all traffic - pass-pppoe: pass traffic of PPPoE protocol group - pass-ipoe: pass traffic of IPv4oE protocol group - pass-ipoe: pass PPPoE and IPv4oE protocol groups - pass-ipy6oe: pass PPPoE and IPv6oE protocol group - pass-pppoe-ipv6oe: pass PPPoE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass IPv4oE and IPv6oE protocol groups - pass-pppoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass IPv4oE and IPv6oE protocol groups - pass-ipv6oe: pass PPPoE and IPv6oE protocol groups - pass-ipv6oe: pass PPPoE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE and IPv6oE protocol groups - pass-ipv6oe: pass PPPoE and IPv6oE pr			
- pass-pppoe : pass traffic of PPPoE protocol group - pass-ipoe : pass traffic of IPv4oE protocol group - pass-ipoe : pass PPPoE and IPv4oE protocol groups - pass-ipv6oe : pass PPPoE and IPv6oE protocol groups - pass-ipv6oe : pass PPPoE and IPv6oE protocol groups - pass-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ppoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-ipoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protoc			
- pass-ipoe : pass traffic of IPv4oE protocol group - pass-pppoe-ipoe : pass PPPoE and IPv4oE protocol group - pass-pppoe-ipv6oe : pass PPPoE and IPv6oE protocol group - pass-ipoe-ipv6oe : pass PPPoE and IPv6oE protocol groups - pass-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups - pass-pppoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups [no] pppoe-relay-tag Parameter type: <vlan::pppoerelayenabler3.1> Format: (true</vlan::pppoerelayenabler3.1>			
- pass-pppoe-ipoe : pass PPPoE and IPv4oE protocol groups - pass-ipv6oe : pass traffic of IPv6oE protocol group - pass-pppoe-ipv6oe : pass PPPoE and IPv6oE protocol groups - pass-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe : pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups [no] pppoe-relay-tag - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass IPv4oE and IPv6oE protocol groups - pass-ipv6oe: pass PPPoE and IPv6oE protocol groups - pass-ipv6oe: pass IPv4oE and IPv6oE proto			
- pass-ipv6oe : pass traffic of IPv6oE protocol group - pass-pppoe-ipv6oe : pass PPPoE and IPv6oE protocol groups - pass-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass IPv4oE and IPv6oE protocol groups - pass-ipv6oe: pass IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass IPv4oE and IPv6oE portocol groups - pass-ipv6oe: pass IPv4oE and IPv6oE portocol groups - pass-pppoe-ipv6oe: pass IPv4oE and IPv6oE portocol groups - pass-ppoe-ipv6oe: pass IPv4oE and IPv6oE porto			
groups - pass-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups - pass-pppoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups [no] pppoe-relay-tag Parameter type: <vlan::pppoerelayenabler3.1> Format: (true false configurable) Possible values: - true : pppoe tag with the current fixed format - false : no pppoe tag - configurable : circuit-id-pppoe and remote-id-pppoe controlling format [no] dhcp-opt-82 Parameter type: boolean obsolete parameter replaced be parameter "dhcp-opt82-ext" The parameter is not visib</vlan::pppoerelayenabler3.1>		- pass-ipv6oe : pass traffic of IPv6oE protocol group	
- pass-ipoe-ipv6oe : pass IPv4oE and IPv6oE protocol groups - pass-pppoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups [no] pppoe-relay-tag			
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- pass-pppoe-ipoe-ipv6oe: pass PPPoE, IPv4oE and IPv6oE protocol groups [no] pppoe-relay-tag			
protocol groups [no] pppoe-relay-tag Parameter type: <vlan::pppoerelayenabler3.1> Format: (true false configurable) Possible values: - true : pppoe tag - configurable : circuit-id-pppoe and remote-id-pppoe controlling format [no] dhcp-opt-82 Parameter type: boolean protocol groups optional parameter with defaute value: "false" configure the format of the PPPoE relay tag PPPoE relay tag obsolete parameter replaced to parameter "dhcp-opt82-ext" The parameter is not visib</vlan::pppoerelayenabler3.1>			
[no] pppoe-relay-tag Parameter type: <vlan::pppoerelayenabler3.1> Format: (true false configurable) Possible values: - true: pppoe tag - configurable: circuit-id-pppoe and remote-id-pppoe controlling format [no] dhcp-opt-82 Parameter type: <vlan::pppoerelayenabler3.1> Poptional parameter with defautivalue: "false" configure the format of the PPPoE relay tag PPPoE relay tag obsolete parameter replaced to parameter "dhcp-opt82-ext" The parameter is not visib</vlan::pppoerelayenabler3.1></vlan::pppoerelayenabler3.1>			
Format: (true false configurable) Possible values: - true: pppoe tag with the current fixed format - false: no pppoe tag - configurable: circuit-id-pppoe and remote-id-pppoe controlling format [no] dhcp-opt-82 Parameter type: boolean Format: value: "false" configure the format of the possible values: - true configure the format of the perameter replaced to parameter "dhcp-opt82-ext" The parameter is not visib	[no] pppoe-relay-tag		optional parameter with default
(true false configurable) Possible values: - true : pppoe tag with the current fixed format - false : no pppoe tag - configurable : circuit-id-pppoe and remote-id-pppoe controlling format [no] dhcp-opt-82 Parameter type: boolean configure the format of the PPPoE relay tag PPPoE relay tag obsolete parameter replaced to parameter "dhcp-opt82-ext" The parameter is not visib	[] [[]		
configurable Possible values: - true : pppoe tag with the current fixed format - false : no pppoe tag - configurable : circuit-id-pppoe and remote-id-pppoe controlling format [no] dhcp-opt-82 Parameter type: boolean obsolete parameter replaced be parameter "dhcp-opt82-ext" The parameter is not visib		(true	configure the format of the
Possible values: - true : pppoe tag with the current fixed format - false : no pppoe tag - configurable : circuit-id-pppoe and remote-id-pppoe controlling format [no] dhcp-opt-82 Parameter type: boolean obsolete parameter replaced by parameter "dhcp-opt82-ext" The parameter is not visib			PPPoE relay tag
- true : pppoe tag with the current fixed format - false : no pppoe tag - configurable : circuit-id-pppoe and remote-id-pppoe controlling format [no] dhcp-opt-82 Parameter type: boolean Obsolete parameter replaced be parameter "dhcp-opt82-ext" The parameter is not visib			
- false : no pppoe tag - configurable : circuit-id-pppoe and remote-id-pppoe controlling format [no] dhcp-opt-82 Parameter type: boolean Obsolete parameter replaced be parameter "dhcp-opt82-ext" The parameter is not visib			
- configurable : circuit-id-pppoe and remote-id-pppoe controlling format [no] dhcp-opt-82 Parameter type: boolean Obsolete parameter replaced be parameter "dhcp-opt82-ext" The parameter is not visib			
controlling format [no] dhcp-opt-82 Parameter type: boolean obsolete parameter replaced by parameter "dhcp-opt82-ext" The parameter is not visib			
[no] dhcp-opt-82 Parameter type: boolean obsolete parameter replaced to parameter "dhcp-opt82-ext" The parameter is not visib			
parameter "dhcp-opt82-ext" The parameter is not visib	[no] dhcp-opt-82		obsolete parameter replaced by
	1 1	71	
during creation.			The parameter is not visible
			during creation.
enable dhcp option 82 (relay)			
	[no] dhcp-opt82-ext		optional parameter with default
Format: value: "disable"			
(enable The parameter is not visib disable during creation.		·	The parameter is not visible
transparent control of DHCP option 82			
add-or-replace			option of

add-or-forward Possible values: enable : enable dhcp option 82 (relay) disable : disable dhcp option 82 (relay) transparent : pass dhcp option 82 transparently if sent by client (relay) add-or-replace : add dhcp option 82 if not present or replace the dhcp option 82 if present (relay)	
Possible values: - enable : enable dhcp option 82 (relay) - disable : disable dhcp option 82 (relay) - transparent : pass dhcp option 82 transparently if sent by client (relay) - add-or-replace : add dhcp option 82 if not present or replace the dhcp option 82 if present (relay)	
 disable : disable dhcp option 82 (relay) transparent : pass dhcp option 82 transparently if sent by client (relay) add-or-replace : add dhcp option 82 if not present or replace the dhcp option 82 if present (relay) 	
 disable : disable dhcp option 82 (relay) transparent : pass dhcp option 82 transparently if sent by client (relay) add-or-replace : add dhcp option 82 if not present or replace the dhcp option 82 if present (relay) 	
 transparent: pass dhcp option 82 transparently if sent by client (relay) add-or-replace: add dhcp option 82 if not present or replace the dhcp option 82 if present (relay) 	
client (relay) - add-or-replace: add dhcp option 82 if not present or replace the dhcp option 82 if present (relay)	
- add-or-replace : add dhcp option 82 if not present or replace the dhcp option 82 if present (relay)	
replace the dhcp option 82 if present (relay)	
- add-or-forward : add dhcp option 82 if not present or	
forward the dhcp option 82 transparently if sent by client	
(relay)	
no] dhcp-opt82-nni Parameter type: <vlan::option82nni> optional paramet</vlan::option82nni>	er with default
Format: value: "disable"	er wiin aejauii
(enable The parameter	is not visible
disable during creation.	is noi visible
) ontion 97 on
transparent control of DHCF add-or-replace NNI Interface	option 82 on
add-or-forward)	
Possible values:	
- enable: enable dhep option 82 on NNI Interface(relay)	
- disable : disable dhcp option 82 on NNI Interface(relay)	
- transparent : pass dhcp option 82 transparently if sent by	
client on NNI Interface(relay)	
- add-or-replace : add dhcp option 82 if not present or	
replace the dhcp option 82 if present on NNI Interface(relay)	
- add-or-forward : add dhcp option 82 if not present or	
forward the dhcp option 82 transparently if sent by client on	
NNI Interface(relay)	
no] dhcp-opt82-uplink	er with default
Format: value: "disable"	
(enable The parameter	is not visible
disable during creation.	
transparent control of DHCF	
add-or-replace UPLINK Interface	3
add-or-forward)	
Possible values:	
- enable : enable dhcp option 82 on UPLINK	
Interface(relay)	
- disable : disable dhcp option 82 on UPLINK	
Interface(relay)	
- transparent : pass dhcp option 82 transparently if sent by	
client on UPLINK Interface(relay)	
- add-or-replace : add dhcp option 82 if not present or	
replace the dhcp option 82 if present on UPLINK	
Interface(relay)	
- add-or-forward : add dhcp option 82 if not present or	
forward the dhcp option 82 transparently if sent by client on	
UPLINK Interface(relay)	
no] circuit-id-dhcp Parameter type: <vlan::circuitiddhcp> optional paramet</vlan::circuitiddhcp>	er with default
Format: value: "disable"	-
	is not visible
(customer-id	
physical-id physical-id	
physical-id during creation.	circuit id
physical-id during creation. ccsa-format configure the	
physical-id during creation. ccsa-format configure the disable sub-option for DH	
physical-id during creation. ccsa-format configure the	

Parameter	Туре	Description
	- ccsa-format : circuit id in ccsa format	
	- disable : no circuit id	
[no] remote-id-dhcp	Parameter type: <vlan::remoteiddhcp></vlan::remoteiddhcp>	optional parameter with default
	Format:	value: "disable"
	(customer-id	The parameter is not visible
	disable	during creation.
	physical-id)	configure the remote id
	Possible values:	sub-option for DHCP option-82
	- customer-id : customer identity as remote id	
	- disable : no remote id	
[]	- physical-id : physical line identity as remote id	
[no] relay-id-dhcp	Parameter type: <vlan::relayiddhcp></vlan::relayiddhcp>	optional parameter with default
	Format:	value: "disable"
	(relay-id	The parameter is not visible
	disable)	during creation.
	Possible values:	configure the relay id sub-option
	- relay-id : System MAC + Physical Id as relay id	for DHCP option-82
[no] dhcp-linerate	- disable : no relay id Parameter type: <vlan::dhcp-linerate></vlan::dhcp-linerate>	optional parameter with default
[no] unep-iniciate	Format:	value: "notadd"
	(notadd	The parameter is not visible
	addactuallinerate	during creation.
	addalllineparameters)	configure insertion of the linerate
	Possible values:	for DHCP protocol
	- notadd : not add DSL linerate for DHCP	To Differ protocor
	- addactuallinerate : add DSL actual line up and down rate	
	for DHCP	
	- addalllineparameters : add all DSL line parameters for	
	DHCP	
[no] pppoe-linerate	Parameter type: <vlan::pppoe-linerate></vlan::pppoe-linerate>	optional parameter with default
	Format:	value: "notadd"
	(notadd	The parameter is not visible
	addactuallinerate	during creation.
	addalllineparameters)	configure insertion of the linerate
	Possible values:	for PPPoE protocol (Only
	- notadd : not add DSL linerate for PPPoE	applicable on DSL LT boards,
	- addactuallinerate : add DSL actual line up and down rate	not on GPON LT boards. In case
	for PPPoE	both GPON ports and DSL ports
	- addalllineparameters : add all DSL line parameters for	are configured in one VLAN, the
	PPPoE	pppoe-linerate parameter will
		only be applied on DSL LT
		boards.)
[no] dhcpv6-linerate	Parameter type: <vlan::dhcpv6-linerate></vlan::dhcpv6-linerate>	optional parameter with default
	Format:	value: "notadd"
	(notadd	The parameter is not visible
	addactuallinerate	during creation.
	addalllineparameters)	configure insertion of the linerate
	Possible values:	for DHCPv6 protocol
	- notadd : not add DSL linerate for DHCPv6	
	- addactuallinerate : add DSL actual line up and down rate	
	for DHCPv6	
	- addalllineparameters : add all DSL line parameters for DHCPv6	
[no] nanco 12 angono	Parameter type: <vlan::pppoeaccessencap></vlan::pppoeaccessencap>	ontional nanameter with defends
[no] pppoe-12-encaps	Format:	optional parameter with default value: "notadd"
	(notadd	The parameter is not visible
	(notadd add)	during creation.
	aud)	auring creation.

Parameter	Type	Description
	Possible values:	configure insertion of access loop
	- notadd : not add access loop encapsulation for PPPoE	encapsulation sub-option for
	- add : add access loop encapsulation for PPPoE	PPPoE relay tag (Only applicable
	add: add access 100p encapsulation for 111 of	on DSL and ETH LT boards, not
		on GPON LT boards. In case
		both GPON ports and DSL/ETH
		ports are configured in one
		VLAN, the pppoe-12-encaps
		parameter will only be applied on
		DSL and ETH LT boards.)
[no] dhcp-l2-encaps	Parameter type: <vlan::dhcpaccessencap></vlan::dhcpaccessencap>	optional parameter with default
	Format:	value: "notadd"
	(notadd	The parameter is not visible
	add)	during creation.
	Possible values:	configure insertion of access loop
	- notadd : not add access loop encapsulation for DHCP	encapsulation sub-option for
	- add : add access loop encapsulation for DHCP	DHCP option 82 (Only
		applicable on DSL and ETH LT
		boards, not on GPON LT boards.
		In case both GPON ports and
		DSL/ETH ports are configured in
		one VLAN, the dhcp-12-encaps
		parameter will only be applied on
		DSL and ETH LT boards.)
[no] dhcpv6-l2-encaps	Parameter type: <vlan::dhcpv6accessencap></vlan::dhcpv6accessencap>	optional parameter with default
[no] unep vo 12 encaps	Format:	value: "notadd"
	(notadd	The parameter is not visible
	add)	during creation.
	Possible values:	configure insertion of access loop
	- notadd : not add access loop encapsulation for DHCPv6	encapsulation sub-option for
	- add : add access loop encapsulation for DHCPv6	DHCPv6 (Only applicable on
	- add . add access loop encapsulation for DHCFV0	DSL and ETH LT boards, not on
		GPON LT boards. In case both
		GPON ports and DSL/ETH ports
		are configured in one VLAN, the
		dhcpv6-12-encaps parameter will
		only be applied on DSL and ETH
		LT boards.)
[no] 12-encaps1	Parameter type: <vlan::accessloopencaps1></vlan::accessloopencaps1>	optional parameter with default
	Format:	value: "not-applicable"
	(not-applicable	The parameter is not visible
	untagged	during creation.
	single-tagged	configure the encapsulation 1
	dual-tagged)	value of the access loop
	Possible values:	encapsulation sub-option for
	- not-applicable : not applicable	DHCP option 82, DHCPv6 relay
	- untagged : set untag as encapsulation1 value	tag and PPPoE relay tag
	- single-tagged : set single-tag as encapsulation1 value	
	- dual-tagged : set dual-tag as encapsulation1 value	
[no] pppoer-vlanaware	Parameter type: <vlan::pppoerelayvlanaware></vlan::pppoerelayvlanaware>	optional parameter with default
	Format:	value: "system-default"
	(upto-1-uservlan	The parameter is not visible
	upto-2-uservlans	during creation.
	upto-untag-uservlan	configure the number of user
	system-default)	VLANs that the PPPoE relay
	Possible values:	functionality should be aware of
		runctionanty should be aware of
	- upto-1-uservlan : user VLAN awareness for untagged and	

Parameter	Туре	Description
	single-tagged packets	
	- upto-2-uservlans : user VLAN awareness for untagged,	
	single-tagged and dual-tagged packets	
	- upto-untag-uservlan : user VLAN awareness for only	
	untagged packets	
	- system-default : default user VLAN awareness depends on	
F 3 11 1	the forwarder type and board type	
[no] dhcpr-vlanaware	Parameter type: <vlan::dhcprelayvlanaware></vlan::dhcprelayvlanaware>	optional parameter with default
	Format:	value: "system-default"
	(upto-1-uservlan upto-2-uservlans	The parameter is not visible
	upto-2-uservians upto-untag-uservian	during creation. configure the number of user
	system-default)	VLANs that the DHCP relay
	Possible values:	functionality should be aware of
	- upto-1-uservlan : user VLAN awareness for untagged and	runctionality should be aware of
	single-tagged packets	
	- upto-2-uservlans : user VLAN awareness for untagged,	
	single-tagged and dual-tagged packets	
	- upto-untag-uservlan : user VLAN awareness for only	
	untagged packets	
	- system-default : default user VLAN awareness depends on	
	the forwarder type and board type	
[no] dhcpv6r-vlanaware	Parameter type: <vlan::dhcpv6relayvlanaware></vlan::dhcpv6relayvlanaware>	optional parameter with default
	Format:	value: "system-default"
	(upto-1-uservlan	The parameter is not visible
	upto-2-uservlans	during creation.
	upto-untag-uservlan	configure the number of user
	system-default)	VLANs that the DHCPv6 relay
	Possible values:	functionality should be aware of
	- upto-1-uservlan: user VLAN awareness for untagged and	
	single-tagged packets	
	- upto-2-uservlans : user VLAN awareness for untagged, single-tagged and dual-tagged packets	
	- upto-untag-uservlan : user VLAN awareness for only	
	untagged packets	
	- system-default : default user VLAN awareness depends on	
	the forwarder type and board type	
[no] drly-srv-usr-side	Parameter type: <vlan::drlysrvatusrside></vlan::drlysrvatusrside>	optional parameter with default
[.] === j == .	Format:	value: "disable"
	(enable	enable DHCP(v4/v6) server
	disable)	transparency at the user side
	Possible values:	when DHCP(v4/v6) relay is
	- enable : enable DHCP(v4/v6) server transparency at the	enabled.Only applicable for CC
	user side when DHCP(v4/v6) relay is enabled.	forwarder
	- disable : disable DHCP(v4/v6) server transparency at the	
	user side when DHCP(v4/v6) relay is enabled.	
[no] circuit-id-pppoe	Parameter type: <vlan::circuitidpppoe></vlan::circuitidpppoe>	optional parameter with default
	Format:	value: "disable"
	(disable	The parameter is not visible
	customer-id	during creation.
	physical-id	configure the circuit id
	ccsa-format Possible values:	sub-option for PPPoE relay tag
	- disable : no circuit id	
	- customer-id : customer identity as circuit id	
	- physical-id : physical line identity as circuit id	
	- ccsa-format : circuit id in ccsa format	
	cosa format. Offcut la ili cosa format	1

Parameter	Type	Description
[no] remote-id-pppoe	Parameter type: <vlan::remoteidpppoe></vlan::remoteidpppoe>	optional parameter with default
	Format:	value: "disable"
	(disable	The parameter is not visible
	customer-id	during creation.
	physical-id)	configure the remote id
	Possible values:	sub-option for PPPoE relay tag
	- disable : no remote id	
	- customer-id : customer identity as remote id	
	- physical-id : physical line identity as remote id	
[no] new-secure-fwd	Parameter type: <vlan::newsecureforward></vlan::newsecureforward>	optional parameter with default
	Format:	value: "inherit"
	(inherit	enable secure forwarding for the
	disable	VLAN (On GPON and L2+ LT
	enable)	boards, secure forwarding for
	Possible values:	S+C L2 Forwarders can only be
	- inherit : inherit new-secure-forwarding	controlled at S-VLAN level, not
	- disable : disable new-secure-forwarding	individually at S+C-VLAN
	- enable : enable new-secure-forwarding	level.)
[no] aging-time	Parameter type: <vlan::macagingtime></vlan::macagingtime>	optional parameter with default
[]	Format:	value: -1
	- mac aging time in seconds	configure MAC aging time in
	- unit: sec	seconds; in case of default,the
	- range: [-1,101000000]	system-level value is applicable.
[no] 12cp-transparent	Parameter type: boolean	optional parameter
[no] 12ep transparent	Tarameter type. Boolean	enable 12cp-transparent
[no] dhcpv6-itf-id	Parameter type: <vlan::dhcpv6interfaceid></vlan::dhcpv6interfaceid>	optional parameter with default
[no] thep voite it	Format:	value: "disable"
	(disable	The parameter is not visible
	customer-id	during creation.
	physical-id	DHCPv6 interface id control
	ccsa-format)	Differ vo interface la control
	Possible values:	
	- disable : no interface id	
	- customer-id : customer identity as interface id	
	- physical-id: physical line identity as interface id	
	- ccsa-format : interface id in ccsa format	
[no] dhcpv6-remote-id	Parameter type: <vlan::dhcpv6remoteid></vlan::dhcpv6remoteid>	optional parameter with default
[no] dhepvo-temote-id	Format:	value: "disable"
	(disable	The parameter is not visible
	customer-id	during creation.
	physical-id)	DHCPv6 remote id control
	Possible values:	DITCE VO TEINOLE IU CONITOI
	- disable : no interface id	
	- customer-id : customer identity as interface id	
[mal dhamre malarrid	- physical-id : physical line identity as interface id	antiqual nanguratan with default
[no] dhcpv6-relay-id	Parameter type: <vlan::dhcpv6relayid></vlan::dhcpv6relayid>	optional parameter with default value: "disable"
	Format:	
	(disable	The parameter is not visible
	duid-ll)	during creation.
	Possible values:	DHCPv6 relay id control
	- disable : no dhcpv6 relay-id	
	- duid-ll: two octet network hardware type code, followed	
F 1 11 6	by the link-layer address	
[no] dhcpv6-trst-port	Parameter type: <vlan::dhcpv6trstport></vlan::dhcpv6trstport>	optional parameter with default
	Format:	value: "untrusted"
	(trusted	The parameter is not visible
	untrusted)	during creation.

Parameter	Type	Description
	Possible values:	DHCPv6 trusted port control
	- trusted : trusted port	-
	- untrusted : untrusted port	
[no] enterprise-number	Parameter type: <vlan::enterprisenumber></vlan::enterprisenumber>	optional parameter with default
_	Format:	value: "3561"
	- enterprise number	The parameter is not visible
	- range: [14294967295]	during creation.
		configure enterprise number for
		DHCPv6 protocol
[no] icmpv6-sec-fltr	Parameter type: boolean	optional parameter
		The parameter is not visible
		during creation.
		enable icmpv6 secure filter
[no] in-qos-prof-name	Parameter type: <qos::qosingressprofilename></qos::qosingressprofilename>	optional parameter with default
	Format:	value: "default"
	(default	QoS ingress profile name
	name : <qos::ignoredqosprofilename>)</qos::ignoredqosprofilename>	
	Possible values:	
	- default : default profile name	
	- name : enter profile name to be associated	
	Data driven field type	
	Possible values are depending on the actual configuration	
	and software.	
	The currently allowed values can be shown with online-help.	
[no] ipv4-mcast-ctrl	Parameter type: boolean	optional parameter
		enable ipv4 multicast control:
		forward ipv4 multicast frames in
		this vlan
[no] ipv6-mcast-ctrl	Parameter type: boolean	optional parameter
		enable ipv6 multicast control:
		forward ipv6 multicast frames in
		this vlan
[no] mac-mcast-ctrl	Parameter type: boolean	optional parameter
		enable mac multicast control:
		forward mac multicast frames in
		this vlan
[no] dis-proto-rip	Parameter type: boolean	optional parameter
		disable RIP-IPv4 protocol
[no] proto-ntp	Parameter type: boolean	optional parameter
		enable ntp protocol
[no] dis-ip-antispoof	Parameter type: boolean	optional parameter
		disable IP anti-spoofing
[no] unknown-unicast	Parameter type: boolean	optional parameter
		enable unknown unicast flooding
[no] pt2ptgem-flooding	Parameter type: boolean	optional parameter
		enable flooding on unicast GEM
		port
[no] mac-movement-ctrl	Parameter type: boolean	optional parameter
		enable mac movement in this
		vlan
[no] cvlan4095passthru	Parameter type: <vlan::cvlan4095passthru></vlan::cvlan4095passthru>	optional parameter with default
	Format:	value: "not-applicable"
	(passthru	enable C-VLAN 4095 tunneling
	not-applicable)	behavior. Only applicable for
	Possible values:	S-VLAN CC forwarder
	- passthru : Allow passthru of cvlan 4095 - applicable only	
	for SVLANCC	

Parameter	Type	Description
	- not-applicable : Legacy behavior	
[no] arp-snooping	Parameter type: boolean	optional parameter
		enable arp snooping
[no] arp-polling	Parameter type: boolean	optional parameter
		enable arp polling
[no] arp-polling-ip	Parameter type: <ip::v4address></ip::v4address>	optional parameter with default
	Format:	value: "0.0.0.0"
	- IPv4-address	configure ARP polling ip address
[no] mac-unauth	Parameter type: boolean	optional parameter
		enable mac unauthorized default:
		forward the frame to this vlan if
		authorization failed

22.5 VLAN Filtering Database Configuration Command

Command Description

This command allows the operator to specify entries in the Layer 2 filtering database for a specific VLAN and unicast MAC address.

This information is used by the bridge in determining how to propagate a received frame.

Use of this command is disencouraged because it will be obsoleted and replaced in the future by the VLAN Port Filtering Database Configuration command.

User Level

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

Command Syntax

The command has the following syntax:

> configure vlan (no unicast-mac (unicast-mac) vlan-id <Network::StackedVlan>) | (unicast-mac (unicast-mac) vlan-id <Network::StackedVlan> forward-port <Itf::UserPortItf>)

Command Parameters

Table 22.5-1 "VLAN Filtering Database Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(unicast-mac)	Format:	unicast mac address
	- mac address (aa:bb:cc:a1:02:03)	
	- unit: Byte	
	- length: 6	
vlan-id	Parameter type: <network::stackedvlan></network::stackedvlan>	network vlan id
	Format:	
	(<network::uvlanindex></network::uvlanindex>	
	stacked : <network::svlanindex> :</network::svlanindex>	
	<network::cvlanindex>)</network::cvlanindex>	
	Possible values:	
	- stacked : stacked vlan identity	
	Field type <network::uvlanindex></network::uvlanindex>	
	- unstacked vlan identity	
	- range: [14093]	
	Field type <network::svlanindex></network::svlanindex>	
	- service vlan identity	
	- range: [24093]	
	Field type <network::cvlanindex></network::cvlanindex>	
	- customer vlan identity	
	- range: [04093]	

Table 22.5-2 "VLAN Filtering Database Configuration Command" Command Parameters

Parameter	Туре	Description
forward-port	Parameter type: <itf::userportitf></itf::userportitf>	mandatory parameter
.	Format:	forward bridge port
	(<eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> /</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	2 1
	<eqpt::portid>: <eqpt::vpiid>: <eqpt::vciid></eqpt::vciid></eqpt::vpiid></eqpt::portid>	
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> /</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::portid></eqpt::portid>	
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> /</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::ponid> / <eqpt::ontid> / <eqpt::ontslotid> /</eqpt::ontslotid></eqpt::ontid></eqpt::ponid>	
	<eqpt::ontportid></eqpt::ontportid>	
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> /</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::ponid> / <eqpt::ontid> / voip</eqpt::ontid></eqpt::ponid>	
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> /</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::ponid> / <eqpt::ontid> / vuni</eqpt::ontid></eqpt::ponid>	
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> /</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::ponid> / <eqpt::ontid> / <eqpt::llid></eqpt::llid></eqpt::ontid></eqpt::ponid>	
	ng2 : <eqpt::channelgroupid> /</eqpt::channelgroupid>	
	<eqpt::subchannelgroupid> / <eqpt::ng2ontid> /</eqpt::ng2ontid></eqpt::subchannelgroupid>	
	<eqpt::ng2ontslotid> / <eqpt::ng2ontportid></eqpt::ng2ontportid></eqpt::ng2ontslotid>	
	ng2 : <eqpt::channelgroupid> /</eqpt::channelgroupid>	
	<eqpt::subchannelgroupid> / <eqpt::ng2ontid> / vuni)</eqpt::ng2ontid></eqpt::subchannelgroupid>	
	Possible values:	
	- ng2 : ngpon2 style identification	
	Field type <eqpt::rackid> - the rack number</eqpt::rackid>	
	Field type <eqpt::shelfid></eqpt::shelfid>	
	- the shelf number	
	Field type <eqpt::slotid></eqpt::slotid>	
	- the LT slot number	
	Field type <eqpt::portid></eqpt::portid>	
	- the port number	
	Field type <eqpt::vpiid></eqpt::vpiid>	
	- atm VPI	
	Field type <eqpt::vciid></eqpt::vciid>	
	- atm VCI	
	Field type <eqpt::channelgroupid></eqpt::channelgroupid>	
	- the channel group identifier	
	Field type <eqpt::subchannelgroupid></eqpt::subchannelgroupid>	
	- the subchannel group identifier	
	Field type <eqpt::ponid></eqpt::ponid>	
	- the PON identifier	
	Field type <eqpt::ontid></eqpt::ontid>	
	- the ONT identifier	
	Field type <eqpt::ng2ontid></eqpt::ng2ontid>	
	- the NG2 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></eqpt::ontslotid>	
	- the ONT SLOT identifier	
	Field type <eqpt::ontportid></eqpt::ontportid>	
	- the ONT PORT identifier	
	Field type <eqpt::ng2ontslotid></eqpt::ng2ontslotid>	

Parameter	Type	Description
	- the NGPON2 ONT SLOT identifier	
	Field type <eqpt::ng2ontportid></eqpt::ng2ontportid>	
	- the NGPON2 ONT PORT identifier	
	Field type <eqpt::llid></eqpt::llid>	
	- the LLID identifier,range 1 for EPON,range 1-8 for DPOE	

22.6 VLAN Port Filtering Database Configuration Command

Command Description

This command allows the operator to specify entries in the Layer 2 filtering database for a specific VLAN Port and unicast MAC address.

This information is used by the bridge in determining how to propagate a received frame.

This command will in time obsolete and replace the VLAN Filtering Database Configuration command. Already now, it must be used in case multiple vlan ports are configured on the same bridge port and attached to the same I-Bridge.

User Level

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

Command Syntax

The command has the following syntax:

> configure vlan (no vlan-port (port) unicast-mac <Vlan::MacAddr>) | (vlan-port (port) unicast-mac <Vlan::MacAddr>)

Command Parameters

Table 22.6-1 "VLAN Port Filtering Database Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(port)	Format:	vlan port
	(vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::portid> : <eqpt::vpiid> :</eqpt::vpiid></eqpt::portid></eqpt::slotid>	
	<eqpt::vciid> : <eqpt::unstackedvlan></eqpt::unstackedvlan></eqpt::vciid>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::portid> : <eqpt::unstackedvlan></eqpt::unstackedvlan></eqpt::portid></eqpt::slotid>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::portid> : <eqpt::vpiid> :</eqpt::vpiid></eqpt::portid></eqpt::slotid>	
	<eqpt::vciid> : stacked : <eqpt::svlan> : <eqpt::cvlan></eqpt::cvlan></eqpt::svlan></eqpt::vciid>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::portid> : stacked : <eqpt::svlan> :</eqpt::svlan></eqpt::portid></eqpt::slotid>	
	<eqpt::cvlan></eqpt::cvlan>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::ponid> / <eqpt::ontid> /</eqpt::ontid></eqpt::ponid></eqpt::slotid>	
	<eqpt::ontslotid> / <eqpt::ontportid> : stacked :</eqpt::ontportid></eqpt::ontslotid>	
	<eqpt::svlan> : <eqpt::cvlan></eqpt::cvlan></eqpt::svlan>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::ponid> / <eqpt::ontid> /</eqpt::ontid></eqpt::ponid></eqpt::slotid>	
	<eqpt::ontslotid> / <eqpt::ontportid> :</eqpt::ontportid></eqpt::ontslotid>	

Resource Identifier	Type	Description
Kesource Tuentinier	<pre><eqpt::unstackedvlan></eqpt::unstackedvlan></pre>	Description
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<pre><eqpt::slotid> / <eqpt::ponid> / <eqpt::ontid> / voip :</eqpt::ontid></eqpt::ponid></eqpt::slotid></pre>	
	stacked: <eqpt::svlan>: <eqpt::cvlan></eqpt::cvlan></eqpt::svlan>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<pre><</pre>	
	stacked: <eqpt::svlan>: <eqpt::cvlan></eqpt::cvlan></eqpt::svlan>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<pre><eqpt::slotid> / <eqpt::ponid> / <eqpt::ontid> / voip :</eqpt::ontid></eqpt::ponid></eqpt::slotid></pre>	
	<pre><eqptsiorid> / <eqpttonid> / <eqptonid> / voip .</eqptonid></eqpttonid></eqptsiorid></pre> <pre><eqpt::unstackedvlan></eqpt::unstackedvlan></pre>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<pre><</pre>	
	<pre><eqpt.:storids :<="" <eqpt.:onids="" <eqpt.:totalds="" pre="" vuiii=""></eqpt.:storids></pre>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<pre><pre><= vian-port :</pre></pre>	
	<pre><eqpt::id> : <eqpt::unstackedvlan></eqpt::unstackedvlan></eqpt::id></pre>	
	vlan-port : <eqpt::oistacked viait=""> vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid></eqpt::oistacked>	
	<pre><</pre>	
	<pre><eqpt::siords <eqpt::llid="" ceqpt::olids="" ceqpt::tollids=""> : stacked : <eqpt::svlan> : <eqpt::cvlan></eqpt::cvlan></eqpt::svlan></eqpt::siords></pre>	
	vlan-port:ng2 : <eqpt.:s viail=""> . <eqpt.:c viail=""> /</eqpt.:c></eqpt.:s>	
	<pre><</pre>	
	<pre><eqpt::ng2ontslotid> / <eqpt::ng2ontportid> : stacked :</eqpt::ng2ontportid></eqpt::ng2ontslotid></pre>	
	<pre><eqpt:: :="" <="" \="" \text{eqpt::.="" \text{eqpt:::\text{vlan}}="" \text{van}}="" pre=""></eqpt::></pre>	
	vlan-port:ng2 : <eqpt::channelgroupid> /</eqpt::channelgroupid>	
	<pre><eqpt::subchannelgroupid> / <ng2::ontid> /</ng2::ontid></eqpt::subchannelgroupid></pre>	
	<pre><eqpt::ng2ontslotid> / <eqpt::ng2ontportid> :</eqpt::ng2ontportid></eqpt::ng2ontslotid></pre>	
	<eqpt::unstackedvlan></eqpt::unstackedvlan>	
	vlan-port:ng2 : <eqpt::channelgroupid> /</eqpt::channelgroupid>	
	<pre><eqpt::subchannelgroupid> / <ng2::ontid> / vuni :</ng2::ontid></eqpt::subchannelgroupid></pre>	
	stacked: <eqpt::svlan>: <eqpt::cvlan></eqpt::cvlan></eqpt::svlan>	
	vlan-port:ng2 : <eqpt::channelgroupid> /</eqpt::channelgroupid>	
	<eqpt::subchannelgroupid> / Ng2::OntId> / vuni :</eqpt::subchannelgroupid>	
	<eqpt::unstackedvlan>)</eqpt::unstackedvlan>	
	Possible values:	
	- vlan-port : vlan port	
	- vlan-port:ng2 : ngpon2 vlan port	
	Field type <eqpt::rackid></eqpt::rackid>	
	- the rack number	
	Field type <eqpt::shelfid></eqpt::shelfid>	
	- the shelf number	
	Field type <eqpt::slotid></eqpt::slotid>	
	- the LT slot number	
	Field type <eqpt::portid></eqpt::portid>	
	- the port number	
	Field type <eqpt::vpiid></eqpt::vpiid>	
	- atm VPI	
	Field type <eqpt::vciid></eqpt::vciid>	
	- atm VCI	
	Field type <eqpt::ponid></eqpt::ponid>	
	- the PON identifier	
	Field type <eqpt::ontid></eqpt::ontid>	
	- the ONT identifier	
	Field type <eqpt::channelgroupid></eqpt::channelgroupid>	
	- the channel group identifier	
	Field type <eqpt::subchannelgroupid></eqpt::subchannelgroupid>	
	- the subchannel group identifier	
	Field type <ng2::ontid></ng2::ontid>	

Resource Identifier	Type	Description
	- 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></eqpt::ontslotid>	
	- the ONT SLOT identifier	
	Field type <eqpt::ontportid></eqpt::ontportid>	
	- the ONT PORT identifier	
	Field type <eqpt::ng2ontslotid></eqpt::ng2ontslotid>	
	- the NGPON2 ONT SLOT identifier	
	Field type <eqpt::ng2ontportid></eqpt::ng2ontportid>	
	- the NGPON2 ONT PORT identifier	
	Field type <eqpt::llid></eqpt::llid>	
	- the LLID identifier,range 1 for EPON,range 1-8 for DPOE	
	Possible values:	
	- stacked : stacked vlan identity	
	Field type <eqpt::unstackedvlan></eqpt::unstackedvlan>	
	- unstacked vlan id	
	Field type <eqpt::svlan></eqpt::svlan>	
	- service vlan id	
	Field type <eqpt::cvlan></eqpt::cvlan>	
	- customer vlan id	
unicast-mac	Parameter type: <vlan::macaddr></vlan::macaddr>	unicast mac address
	Format:	
	- mac address (aa:bb:cc:a1:02:03)	
	- unit: Byte	
	- length: 6	

22.7 VLAN Protocol-based Configuration

Command

Command Description

For protocol-based VLANs, this command allows the operator to specify how incoming traffic on a port is allocated to a particular VLAN and priority.

For Ethernet frames, the mapping to either the PPPoE or IPoE protocol is:

- protocol value 0x8863: PPPoE
- protocol value 0x8864: PPPoE
- protocol value 0x0800: IPoE
- protocol value 0x0806: IPoE
- protocol value 0x8035: IPoE

For RFC_1042 frames the mapping to either PPPoE or IPoE protocol is:

- protocol value 0x8863: PPPoE
- protocol value 0x8864: PPPoE
- protocol value 0x0800: IPoE
- protocol value 0x0806: IPoE
- protocol value 0x8035: IPoE

priority: The selection of the priority for upstream frames, in case of a protocol based vlan, is not dependent on the configuration of the priority-policy configured at node level.

User Level

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

Command Syntax

The command has the following syntax:

 $> configure\ vlan\ (\ no\ port-protocol\ (port)\ protocol-group\ < Vlan::GroupId>\)\ |\ (\ port-protocol\ (port-protocol\ (port)\ protocol-group\ < Vlan::GroupId>\)\ |\ (\ port-protocol\ (port-protocol\ (port-protoco$

Command Parameters

Table 22.7-1 "VLAN Protocol-based Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(port)	Format:	identity of a port(e.g. uplink port,
	(<eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> /</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	atm pvc, efm port, eth port, la
	<eqpt::portid> : <eqpt::vpiid> : <eqpt::vciid></eqpt::vciid></eqpt::vpiid></eqpt::portid>	group)
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> /</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::portid></eqpt::portid>	
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> /</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::ponid> / <eqpt::ontid> / <eqpt::ontslotid> /</eqpt::ontslotid></eqpt::ontid></eqpt::ponid>	

Recourse Identifier	Type	Description
Resource Identifier	Type <eqpt::ontportid></eqpt::ontportid>	Description
	11	
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> /</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::ponid> / <eqpt::ontid> / voip</eqpt::ontid></eqpt::ponid>	
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> /</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::ponid> / <eqpt::ontid> / vuni</eqpt::ontid></eqpt::ponid>	
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> /</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::ponid> / <eqpt::ontid> / <eqpt::llid></eqpt::llid></eqpt::ontid></eqpt::ponid>	
	ng2 : <eqpt::channelgroupid> /</eqpt::channelgroupid>	
	<eqpt::subchannelgroupid> / <ng2::ontid> /</ng2::ontid></eqpt::subchannelgroupid>	
	<eqpt::ng2ontslotid> / <eqpt::ng2ontportid></eqpt::ng2ontportid></eqpt::ng2ontslotid>	
	ng2 : <eqpt::channelgroupid> /</eqpt::channelgroupid>	
	<eqpt::subchannelgroupid>/<ng2::ontid>/vuni)</ng2::ontid></eqpt::subchannelgroupid>	
	Possible values:	
	- ng2 : ngpon2 style identification	
	Field type <eqpt::rackid></eqpt::rackid>	
	- the rack number	
	Field type <eqpt::shelfid></eqpt::shelfid>	
	- the shelf number	
	Field type <eqpt::slotid></eqpt::slotid>	
	- the LT slot number	
	Field type <eqpt::portid></eqpt::portid>	
	- the port number	
	Field type <eqpt::vpiid></eqpt::vpiid>	
	- atm VPI	
	Field type <eqpt::vciid></eqpt::vciid>	
	- atm VCI	
	Field type <eqpt::ponid></eqpt::ponid>	
	- the PON identifier	
	Field type <eqpt::channelgroupid></eqpt::channelgroupid>	
	- the channel group identifier	
	Field type <eqpt::subchannelgroupid></eqpt::subchannelgroupid>	
	- the subchannel group identifier	
	Field type <eqpt::ontid></eqpt::ontid>	
	- the ONT identifier	
	Field type <ng2::ontid> - the ONT identifier</ng2::ontid>	
	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></eqpt::ontslotid>	
	- the ONT SLOT identifier	
	Field type <eqpt::ontportid></eqpt::ontportid>	
	- the ONT PORT identifier	
	Field type <eqpt::ng2ontslotid></eqpt::ng2ontslotid>	
	- the NGPON2 ONT SLOT identifier	
	Field type <eqpt::ng2ontportid></eqpt::ng2ontportid>	
	- the NGPON2 ONT PORT identifier	
	Field type <eqpt::llid></eqpt::llid>	
	- the LLID identifier, range 1 for EPON, range 1-8 for DPOE	
protocol-group	Parameter type: <vlan::groupid></vlan::groupid>	protocol group
protocor-group	Format:	protocor group
	(pppoe	
	ipoe	
	ipv6oe)	

Resource Identifier	Type	Description
	Possible values:	
	- pppoe : PPPoE	
	- ipoe : IPv4oE	
	- ipv6oe : IPv6oE	

Table 22.7-2 "VLAN Protocol-based Configuration Command" Command Parameters

Parameter	Type	Description
vlan-id	Parameter type: <vlan::stackedvlan></vlan::stackedvlan>	mandatory parameter
	Format:	protocol group vlan id
	(<vlan::uvlanindex></vlan::uvlanindex>	
	stacked : <vlan::svlanindex> : <vlan::cvlanindex>)</vlan::cvlanindex></vlan::svlanindex>	
	Possible values:	
	- stacked : stacked vlan identity	
	Field type <vlan::uvlanindex></vlan::uvlanindex>	
	- unstacked vlan identity	
	- range: [14093,4096]	
	Field type <vlan::svlanindex></vlan::svlanindex>	
	- service vlan identity	
	- range: [24093]	
	Field type <vlan::cvlanindex></vlan::cvlanindex>	
	- customer vlan identity	
	- range: [04093]	
priority	Parameter type: <vlan::priority></vlan::priority>	mandatory parameter
	Format:	priority of protocol based vlan
	- priority of ethernet frames	
	- range: [07]	

22.8 Vlan Pbit Traffic Counter Configuration Command

Command Description

This command allows the operator to configure the p-bit traffic counter.

User Level

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

Command Syntax

The command has the following syntax:

> configure vlan pbit-statistics (no port (vlan-port) min-dot1p <Vlan::Dot1pMin> max-dot1p <Vlan::Dot1pMax>) | (port (vlan-port) min-dot1p <Vlan::Dot1pMin> max-dot1p <Vlan::Dot1pMax>)

Command Parameters

Table 22.8-1 "Vlan Pbit Traffic Counter Configuration Command" Resource Parameters

Resource Identifier	Туре	Description
(vlan-port)	Format:	vlan port
	(vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::portid> : <eqpt::vpiid> :</eqpt::vpiid></eqpt::portid></eqpt::slotid>	
	<eqpt::vciid> : <eqpt::unstackedvlan></eqpt::unstackedvlan></eqpt::vciid>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::portid> : <eqpt::unstackedvlan></eqpt::unstackedvlan></eqpt::portid></eqpt::slotid>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::portid> : <eqpt::vpiid> :</eqpt::vpiid></eqpt::portid></eqpt::slotid>	
	<eqpt::vciid> : stacked : <eqpt::svlan> : <eqpt::cvlan></eqpt::cvlan></eqpt::svlan></eqpt::vciid>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::portid> : stacked : <eqpt::svlan> :</eqpt::svlan></eqpt::portid></eqpt::slotid>	
	<eqpt::cvlan></eqpt::cvlan>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::ponid> / <eqpt::ontid> /</eqpt::ontid></eqpt::ponid></eqpt::slotid>	
	<eqpt::ontslotid> / <eqpt::ontportid> : stacked :</eqpt::ontportid></eqpt::ontslotid>	
	<eqpt::svlan> : <eqpt::cvlan></eqpt::cvlan></eqpt::svlan>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::ponid> / <eqpt::ontid> /</eqpt::ontid></eqpt::ponid></eqpt::slotid>	
	<eqpt::ontslotid> / <eqpt::ontportid> :</eqpt::ontportid></eqpt::ontslotid>	
	<eqpt::unstackedvlan></eqpt::unstackedvlan>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::ponid> / <eqpt::ontid> / voip :</eqpt::ontid></eqpt::ponid></eqpt::slotid>	
	stacked : <eqpt::svlan> : <eqpt::cvlan></eqpt::cvlan></eqpt::svlan>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::ponid> / <eqpt::ontid> / vuni :</eqpt::ontid></eqpt::ponid></eqpt::slotid>	

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Resource Identifier	Type	Description
	stacked: <eqpt::svlan>: <eqpt::cvlan></eqpt::cvlan></eqpt::svlan>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::ponid> / <eqpt::ontid> / voip :</eqpt::ontid></eqpt::ponid></eqpt::slotid>	
	<eqpt::unstackedvlan></eqpt::unstackedvlan>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::ponid> / <eqpt::ontid> / vuni :</eqpt::ontid></eqpt::ponid></eqpt::slotid>	
	<eqpt::unstackedvlan></eqpt::unstackedvlan>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::ponid> / <eqpt::ontid> /</eqpt::ontid></eqpt::ponid></eqpt::slotid>	
	<eqpt::llid> : <eqpt::unstackedvlan></eqpt::unstackedvlan></eqpt::llid>	
	vlan-port : <eqpt::rackid> / <eqpt::shelfid> /</eqpt::shelfid></eqpt::rackid>	
	<eqpt::slotid> / <eqpt::ponid> / <eqpt::ontid> /</eqpt::ontid></eqpt::ponid></eqpt::slotid>	
	<eqpt::llid> : stacked : <eqpt::svlan> : <eqpt::cvlan></eqpt::cvlan></eqpt::svlan></eqpt::llid>	
	vlan-port:ng2 : <eqpt::channelgroupid> /</eqpt::channelgroupid>	
	<eqpt::subchannelgroupid> / <ng2::ontid> /</ng2::ontid></eqpt::subchannelgroupid>	
	<eqpt::ng2ontslotid> / <eqpt::ng2ontportid> : stacked :</eqpt::ng2ontportid></eqpt::ng2ontslotid>	
	<eqp::: :="" \c2qp:::\c2cylan="" \c2qp:::\g20na.ortas="" \g20na.iottas="" stacked=""> : \c2cylan> : \</eqp:::>	
	vlan-port:ng2 : <eqpt::channelgroupid> /</eqpt::channelgroupid>	
	<eqpt::subchannelgroupid> / <ng2::ontid> /</ng2::ontid></eqpt::subchannelgroupid>	
	<eqpt::ng2ontslotid> / <eqpt::ng2ontportid> :</eqpt::ng2ontportid></eqpt::ng2ontslotid>	
	<eqpt:: .<="" eqpt::="" g2ohts="" ords="" th=""><th></th></eqpt::>	
	vlan-port:ng2 : <eqpt::channelgroupid> /</eqpt::channelgroupid>	
	<eqpt::subchannelgroupid> / <ng2::ontid> / vuni :</ng2::ontid></eqpt::subchannelgroupid>	
	stacked: <eqpt::svlan>: <eqpt::cvlan></eqpt::cvlan></eqpt::svlan>	
	vlan-port:ng2 : <eqpt::channelgroupid> /</eqpt::channelgroupid>	
	<pre><eqpt::subchannelgroupid> / <ng2::ontid> / vuni :</ng2::ontid></eqpt::subchannelgroupid></pre>	
	<eqpt.:subchameloroupids .="" <eqpt::unstackedvlan="" <ng2.:ontids="" vuiii="">)</eqpt.:subchameloroupids>	
	Possible values:	
	- vlan-port : vlan port	
	- vlan-port:ng2 : ngpon2 vlan port	
	Field type <eqpt::rackid></eqpt::rackid>	
	- the rack number	
	Field type <eqpt::shelfid></eqpt::shelfid>	
	- the shelf number	
	Field type <eqpt::slotid></eqpt::slotid>	
	- the LT slot number	
	Field type <eqpt::portid></eqpt::portid>	
	- the port number	
	Field type <eqpt::vpiid></eqpt::vpiid>	
	- atm VPI	
	Field type <eqpt::vciid></eqpt::vciid>	
	- atm VCI	
	Field type <eqpt::ponid></eqpt::ponid>	
	- the PON identifier	
	Field type <eqpt::ontid></eqpt::ontid>	
	- the ONT identifier	
	Field type <eqpt::channelgroupid></eqpt::channelgroupid>	
	- the channel group identifier	
	Field type <eqpt::subchannelgroupid></eqpt::subchannelgroupid>	
	- the subchannel group identifier	
	Field type <ng2::ontid></ng2::ontid>	
	- the ONT identifier	
	Possible values:	
	- voip : virtual uni identifier	
	obsolete alternative replaced by vuni	
	- vuni : virtual uni identifier	
	Possible values:	<u> </u>

Resource Identifier	Type	Description
	- vuni : virtual NGPON2 uni identifier	1
	Field type <eqpt::ontslotid></eqpt::ontslotid>	
	- the ONT SLOT identifier	
	Field type <eqpt::ontportid></eqpt::ontportid>	
	- the ONT PORT identifier	
	Field type <eqpt::ng2ontslotid></eqpt::ng2ontslotid>	
	- the NGPON2 ONT SLOT identifier	
	Field type <eqpt::ng2ontportid></eqpt::ng2ontportid>	
	- the NGPON2 ONT PORT identifier	
	Field type <eqpt::llid></eqpt::llid>	
	- the LLID identifier, range 1 for EPON, range 1-8 for DPOE	
	Possible values:	
	- stacked : stacked vlan identity	
	Field type <eqpt::unstackedvlan></eqpt::unstackedvlan>	
	- unstacked vlan id	
	Field type <eqpt::svlan></eqpt::svlan>	
	- service vlan id	
	Field type <eqpt::cvlan></eqpt::cvlan>	
	- customer vlan id	
min-dot1p	Parameter type: <vlan::dot1pmin></vlan::dot1pmin>	min p-bit value
	Format:	
	- dot1p value range	
	- range: [07]	
max-dot1p	Parameter type: <vlan::dot1pmax></vlan::dot1pmax>	max p-bit value
	Format:	
	- dot1p value range	
	- range: [07]	

22.9 Vlan Priority Regeneration Profile Configuration Command

Command Description

This command allows the operator to configure a custom priority regeneration profile instead of one of the 10 hard-coded profiles. The priority regeneration profile table stores the p-bit mapping rules that can be used by a L2 Forwarder in the upstream and downstream direction.

User Level

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

Command Syntax

The command has the following syntax:

> configure vlan (no priority-regen (profile-idx)) | (priority-regen (profile-idx) profile-name <AsamProfileName> [no pbit0 | pbit0 <Vlan::NibbleMaskRestricted_0>] [no pbit1 | pbit1 <Vlan::NibbleMaskRestricted_1>] [no pbit2 | pbit2 <Vlan::NibbleMaskRestricted_2>] [no pbit3 | pbit3 <Vlan::NibbleMaskRestricted_3>] [no pbit4 | pbit4 <Vlan::NibbleMaskRestricted_4>] [no pbit5 | pbit5 <Vlan::NibbleMaskRestricted_5>] [no pbit6 | pbit6 <Vlan::NibbleMaskRestricted_6>] [no pbit7 | pbit7 <Vlan::NibbleMaskRestricted_7>])

Command Parameters

Table 22.9-1 "Vlan Priority Regeneration Profile Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(profile-idx)	Format:	A unique profile index
	- a unique index value for the priority regeneration profile	
	- range: [1132]	

Table 22.9-2 "Vlan Priority Regeneration Profile Configuration Command" Command Parameters

Parameter	Type	Description
profile-name	Parameter type: <asamprofilename></asamprofilename>	mandatory parameter
	Format:	A unique profile name
	- a profile name	
	- range: [a-zA-Z0-9]	
	- length: 1<=x<=32	
[no] pbit0	Parameter type: <vlan::nibblemaskrestricted_0></vlan::nibblemaskrestricted_0>	optional parameter with default
1	Format:	value: 8
	- nibble mask	pbit mapping corresponding to
	- range: [08]	pbit0
[no] pbit1	Parameter type: <vlan::nibblemaskrestricted_1></vlan::nibblemaskrestricted_1>	optional parameter with default
	Format:	value: 8
	- nibble mask	pbit mapping corresponding to
	- range: [08]	pbit1
[no] pbit2	Parameter type: <vlan::nibblemaskrestricted_2></vlan::nibblemaskrestricted_2>	optional parameter with default

Parameter	Type	Description
	Format:	value: 8
	- nibble mask	pbit mapping corresponding to
	- range: [08]	pbit2
[no] pbit3	Parameter type: <vlan::nibblemaskrestricted_3></vlan::nibblemaskrestricted_3>	optional parameter with default
	Format:	value: 8
	- nibble mask	pbit mapping corresponding to
	- range: [08]	pbit3
[no] pbit4	Parameter type: <vlan::nibblemaskrestricted_4></vlan::nibblemaskrestricted_4>	optional parameter with default
	Format:	value: 8
	- nibble mask	pbit mapping corresponding to
	- range: [08]	pbit4
[no] pbit5	Parameter type: <vlan::nibblemaskrestricted_5></vlan::nibblemaskrestricted_5>	optional parameter with default
	Format:	value: 8
	- nibble mask	pbit mapping corresponding to
	- range: [08]	pbit5
[no] pbit6	Parameter type: <vlan::nibblemaskrestricted_6></vlan::nibblemaskrestricted_6>	optional parameter with default
	Format:	value: 8
	- nibble mask	pbit mapping corresponding to
	- range: [08]	pbit6
[no] pbit7	Parameter type: <vlan::nibblemaskrestricted_7></vlan::nibblemaskrestricted_7>	optional parameter with default
	Format:	value: 8
	- nibble mask	pbit mapping corresponding to
	- range: [08]	pbit7