

## ***31- PPPoX-Relay Configuration Commands***

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<b>31.1 PPPoX-Relay Configuration Command Tree</b>	<b>31-1095</b>
<b>31.2 PPPoX Cross-connect Global Configuration Command</b>	<b>31-1096</b>
<b>31.3 PPPoX Cross-connect Engine Configuration Command</b>	<b>31-1098</b>
<b>31.4 PPPoX Cross-connect Engine Monitoring Configuration Command</b>	<b>31-1100</b>
<b>31.5 PPPCC Engine TCA Threshold Configuration Command</b>	<b>31-1101</b>
<b>31.6 PPPoX Cross-connect Client Port Configuration Command</b>	<b>31-1103</b>
<b>31.7 PPPoX Cross-connect Client Port Monitoring Configuration Command</b>	<b>31-1106</b>

## 31.1 PPPoX-Relay Configuration Command Tree

### Description

This chapter gives an overview of nodes that are handled by "PPPoX-Relay Configuration Commands".

### Command Tree

```

----configure
  ----pppox-relay
    ----cross-connect
      ----global-session
        - [no] pado-timeout
        - [no] pads-timeout
        - [no] max-pad-attempts
        - [no] trans-max-age
        - [no] cc-max-age
      ----[no] engine
        - (vlan-id)
        - [no] mac-addr-conc
        - [no] dslf-iwf-tag
        - [no] max-payload-tag
        - [no] name
        - [no] lock
        - [no] service-name
      ----[no] monitor
      ----tca
        - [no] enable
        - [no] tran-ageout-15min
        - [no] sess-ageout-15min
        - [no] tran-ageout-1day
        - [no] sess-ageout-1day
      ----[no] client-port
        - (port)
        - vlan-id
        - default-priority
        - [no] max-cc
        - [no] qos-profile
      ----[no] monitor

```

## 31.2 PPPoX Cross-connect Global Configuration Command

### Command Description

*This command allows the operator to specify the system-wide configuration parameters applicable to all PPP sessions.*

### User Level

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

### Command Syntax

The command has the following syntax:

```
> configure pppox-relay cross-connect global-session [ no pado-timeout | pado-timeout <PPPoX::PadTimeOut> ] [
no pads-timeout | pads-timeout <PPPoX::PadTimeOut> ] [ no max-pad-attempts | max-pad-attempts
<PPPoX::PadRRetries> ] [ no trans-max-age | trans-max-age <PPPoX::TransactionMaxAge> ] [ no cc-max-age |
cc-max-age <PPPoX::CcMaxAge> ]
```

### Command Parameters

**Table 31.2-2 "PPPoX Cross-connect Global Configuration Command" Command Parameters**

Parameter	Type	Description
[no] pado-timeout	Parameter type: <PPPoX::PadTimeOut> Format: - timeout for PAD-O PAD-S messages - unit: sec - range: [1...60]	<i>optional parameter with default value: 3</i> timeout for PAD-O message
[no] pads-timeout	Parameter type: <PPPoX::PadTimeOut> Format: - timeout for PAD-O PAD-S messages - unit: sec - range: [1...60]	<i>optional parameter with default value: 3</i> timeout for PAD-S message
[no] max-pad-attempts	Parameter type: <PPPoX::PadRRetries> Format: - maximum number of PAD-R messages - range: [1...16]	<i>optional parameter with default value: 10</i> maximum number of PAD-R messages
[no] trans-max-age	Parameter type: <PPPoX::TransactionMaxAge> Format: - maximum age of PPP transaction - unit: sec - range: [1...300]	<i>optional parameter with default value: 300</i> maximum age of PPP transaction
[no] cc-max-age	Parameter type: <PPPoX::CcMaxAge> Format:	<i>optional parameter with default value: 300</i>

### 31 PPPoX-Relay Configuration Commands

Parameter	Type	Description
	<ul style="list-style-type: none"><li>- maximum age of PPP cross-connection</li><li>- unit: sec</li><li>- range: [10...3000]</li></ul>	maximum age of PPP cross connection

## 31.3 PPPoX Cross-connect Engine Configuration Command

### Command Description

*This command allows the operator to configure the PPP cross-connect engine. The PPP cross-connect engine is identified by a VLAN ID. The name is the name used to identify the PPP cross-connect engine. The lock command locks or unlocks the PPP control plane. For example, if the control plane is unlocked, no new PPP cross-connections can be established, but the existing connections remain until they are released by the PPP server or client.*

### User Level

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

### Command Syntax

The command has the following syntax:

```
> configure pppox-relay cross-connect ( no engine (vlan-id) ) | ( engine (vlan-id) [ [ no ] mac-addr-conc ] [ [ no ]
dslf-iwf-tag ] [ no max-payload-tag | max-payload-tag <PPPoX::MaxPayloadTag> ] [ no name | name
<PPPoX::EngineName> ] [ [ no ] lock ] [ no service-name | service-name <PPPoX::EngineName> ] )
```

### Command Parameters

**Table 31.3-1 "PPPoX Cross-connect Engine Configuration Command" Resource Parameters**

Resource Identifier	Type	Description
(vlan-id)	Format: ( <Network::UVlanIndex>   stacked : <Network::SVlanIndex> : <Network::CVlanIndex> ) Possible values: - stacked : stacked vlan identity Field type <Network::UVlanIndex> - unstacked vlan identity - range: [1...4093] Field type <Network::SVlanIndex> - service vlan identity - range: [2...4093] Field type <Network::CVlanIndex> - customer vlan identity - range: [0...4093]	vlan identity

**Table 31.3-2 "PPPoX Cross-connect Engine Configuration Command" Command Parameters**

Parameter	Type	Description
[no] mac-addr-conc	Parameter type: boolean	<i>optional parameter</i>

Parameter	Type	Description
		<i>The parameter is not visible during modification.</i> enable MAC address concentration
[no] dsif-iwf-tag	Parameter type: boolean	<i>optional parameter</i> insert DSLF IWF Tag into PPPoE Discovery packets
[no] max-payload-tag	Parameter type: <PPPoX::MaxPayloadTag> Format: ( insert   no-insert ) Possible values: - insert : add tag holding the MRU to PADI and PADR messages - no-insert : donot add tag holding the MRU to PADI and PADR messages	<i>optional parameter with default value: "no-insert"</i> insert: add tag holding the MRU to PADI and PADR messages
[no] name	Parameter type: <PPPoX::EngineName> Format: - Engine Name - length: 1<=x<=32	<i>optional parameter with default value: ""</i> name to identify the engine
[no] lock	Parameter type: boolean	<i>optional parameter</i> lock control plane engine
[no] service-name	Parameter type: <PPPoX::EngineName> Format: - Engine Name - length: 1<=x<=32	<i>optional parameter with default value: ""</i> service name issued by engine in PAD-I message

# 31.4 PPPoX Cross-connect Engine Monitoring Configuration Command

## Command Description

*This command allows the operator to configure the exception event counters for the PPP cross-connect engine.*

## User Level

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

## Command Syntax

The command has the following syntax:

> configure pppox-relay cross-connect engine (vlan-id) ( no monitor ) | ( monitor )

## Command Parameters

Table 31.4-1 "PPPoX Cross-connect Engine Monitoring Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(vlan-id)	Format: ( <Network::UVlanIndex>   stacked : <Network::SVlanIndex> : <Network::CVlanIndex> ) Possible values: - stacked : stacked vlan identity Field type <Network::UVlanIndex> - unstacked vlan identity - range: [1...4093] Field type <Network::SVlanIndex> - service vlan identity - range: [2...4093] Field type <Network::CVlanIndex> - customer vlan identity - range: [0...4093]	vlan identity

## 31.5 PPPCC Engine TCA Threshold Configuration Command

### Command Description

*This command allows the operator to configure the Threshold Crossing Alert (TCA) thresholds. The configuration is specific per PPP CC Engine.*

### User Level

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

### Command Syntax

The command has the following syntax:

```
> configure pppox-relay cross-connect engine (vlan-id) tca [ [ no ] enable ] [ no tran-ageout-15min |
tran-ageout-15min <PPPoX::TcaThreshold> ] [ no sess-ageout-15min | sess-ageout-15min
<PPPoX::TcaThreshold> ] [ no tran-ageout-1day | tran-ageout-1day <PPPoX::TcaThreshold> ] [ no
sess-ageout-1day | sess-ageout-1day <PPPoX::TcaThreshold> ]
```

### Command Parameters

**Table 31.5-1 "PPPCC Engine TCA Threshold Configuration Command" Resource Parameters**

Resource Identifier	Type	Description
(vlan-id)	Format: ( <Network::UVlanIndex>   stacked : <Network::SVlanIndex> : <Network::CVlanIndex> ) Possible values: - stacked : stacked vlan identity Field type <Network::UVlanIndex> - unstacked vlan identity - range: [1...4093] Field type <Network::SVlanIndex> - service vlan identity - range: [2...4093] Field type <Network::CVlanIndex> - customer vlan identity - range: [0...4093]	vlan identity

**Table 31.5-2 "PPPCC Engine TCA Threshold Configuration Command" Command Parameters**

Parameter	Type	Description
[no] enable	Parameter type: boolean	<i>optional parameter</i> enable the reporting of TCA's for this pppcc engine



### 31 PPPoX-Relay Configuration Commands

Parameter	Type	Description
[no] tran-ageout-15min	Parameter type: <PPPoX::TcaThreshold> Format: - value of the tca threshold for the pppcc engine - range: [0...65535]	<i>optional parameter with default value: 0</i> configurable threshold for the transaction ageout 15min counter
[no] sess-ageout-15min	Parameter type: <PPPoX::TcaThreshold> Format: - value of the tca threshold for the pppcc engine - range: [0...65535]	<i>optional parameter with default value: 0</i> configurable threshold for the session ageout 15min counter
[no] tran-ageout-1day	Parameter type: <PPPoX::TcaThreshold> Format: - value of the tca threshold for the pppcc engine - range: [0...65535]	<i>optional parameter with default value: 0</i> configurable threshold for the transaction ageout 1day counter
[no] sess-ageout-1day	Parameter type: <PPPoX::TcaThreshold> Format: - value of the tca threshold for the pppcc engine - range: [0...65535]	<i>optional parameter with default value: 0</i> configurable threshold for the session ageout 1day counter

## 31.6 PPPoX Cross-connect Client Port Configuration Command

### Command Description

This command allows the operator to specify the PPP cross-connect client port. When creating a client port on a vlan port, only a Cvlan may be used.

### User Level

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

### Command Syntax

The command has the following syntax:

```
> configure pppox-relay cross-connect ( no client-port (port) ) | ( client-port (port) vlan-id
<Network::StackedVlanSigned> default-priority <PPPoX::DefaultPriority> [ no max-cc | max-cc
<PPPoX::MaxNumPppCc> ] [ no qos-profile | qos-profile <PPPoX::QosProfileName> ] )
```

### Command Parameters

Table 31.6-1 "PPPoX Cross-connect Client Port 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-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> : <Eqpt::UnstackedVlan>   vlan-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::UnstackedVlan>   vlan-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan>   vlan-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan>   vlan-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan>   vlan-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> /	client port identification

Resource Identifier	Type	Description
	<p>           &lt;Eqpt::OntSlotId&gt; / &lt;Eqpt::OntPortId&gt; :            &lt;Eqpt::UnstackedVlan&gt;              &lt;Eqpt::RackId&gt; / &lt;Eqpt::ShelfId&gt; / &lt;Eqpt::SlotId&gt; /            &lt;Eqpt::PonId&gt; / &lt;Eqpt::OntId&gt; / &lt;Eqpt::OntSlotId&gt; /            &lt;Eqpt::OntPortId&gt;              vlan-port : &lt;Eqpt::RackId&gt; / &lt;Eqpt::ShelfId&gt; /            &lt;Eqpt::SlotId&gt; / &lt;Eqpt::PonId&gt; / &lt;Eqpt::OntId&gt; / voip :            stacked : &lt;Eqpt::SVlan&gt; : &lt;Eqpt::CVlan&gt;              vlan-port : &lt;Eqpt::RackId&gt; / &lt;Eqpt::ShelfId&gt; /            &lt;Eqpt::SlotId&gt; / &lt;Eqpt::PonId&gt; / &lt;Eqpt::OntId&gt; / vuni :            stacked : &lt;Eqpt::SVlan&gt; : &lt;Eqpt::CVlan&gt;              vlan-port : &lt;Eqpt::RackId&gt; / &lt;Eqpt::ShelfId&gt; /            &lt;Eqpt::SlotId&gt; / &lt;Eqpt::PonId&gt; / &lt;Eqpt::OntId&gt; / voip :            &lt;Eqpt::UnstackedVlan&gt;              vlan-port : &lt;Eqpt::RackId&gt; / &lt;Eqpt::ShelfId&gt; /            &lt;Eqpt::SlotId&gt; / &lt;Eqpt::PonId&gt; / &lt;Eqpt::OntId&gt; / vuni :            &lt;Eqpt::UnstackedVlan&gt;              &lt;Eqpt::RackId&gt; / &lt;Eqpt::ShelfId&gt; / &lt;Eqpt::SlotId&gt; /            &lt;Eqpt::PonId&gt; / &lt;Eqpt::OntId&gt; / voip              &lt;Eqpt::RackId&gt; / &lt;Eqpt::ShelfId&gt; / &lt;Eqpt::SlotId&gt; /            &lt;Eqpt::PonId&gt; / &lt;Eqpt::OntId&gt; / vuni              vlan-port : &lt;Eqpt::RackId&gt; / &lt;Eqpt::ShelfId&gt; /            &lt;Eqpt::SlotId&gt; / &lt;Eqpt::PonId&gt; / &lt;Eqpt::OntId&gt; /            &lt;Eqpt::LLId&gt; : &lt;Eqpt::UnstackedVlan&gt;              vlan-port : &lt;Eqpt::RackId&gt; / &lt;Eqpt::ShelfId&gt; /            &lt;Eqpt::SlotId&gt; / &lt;Eqpt::PonId&gt; / &lt;Eqpt::OntId&gt; /            &lt;Eqpt::LLId&gt; : stacked : &lt;Eqpt::SVlan&gt; : &lt;Eqpt::CVlan&gt;              &lt;Eqpt::RackId&gt; / &lt;Eqpt::ShelfId&gt; / &lt;Eqpt::SlotId&gt; /            &lt;Eqpt::PonId&gt; / &lt;Eqpt::OntId&gt; / &lt;Eqpt::LLId&gt; )            Possible values:            - vlan-port : vlan port            Field type &lt;Eqpt::RackId&gt;            - the rack number            Field type &lt;Eqpt::ShelfId&gt;            - the shelf number            Field type &lt;Eqpt::SlotId&gt;            - the LT slot number            Field type &lt;Eqpt::PortId&gt;            - the port number            Field type &lt;Eqpt::VpiId&gt;            - atm VPI            Field type &lt;Eqpt::VciId&gt;            - atm VCI            Field type &lt;Eqpt::PonId&gt;            - the PON identifier            Field type &lt;Eqpt::OntId&gt;            - the ONT identifier            Possible values:            - voip : virtual uni identifier            obsolete alternative replaced by vuni            - vuni : virtual uni identifier            Field type &lt;Eqpt::OntSlotId&gt;            - the ONT SLOT identifier            Field type &lt;Eqpt::OntPortId&gt;            - the ONT PORT identifier            Field type &lt;Eqpt::LLId&gt;            - the LLID identifier, range 1 for EPON, range 1-8 for DPOE         </p>	

Resource Identifier	Type	Description
	Possible values: - stacked : stacked vlan identity Field type <Eqpt::UnstackedVlan> - unstacked vlan id Field type <Eqpt::SVlan> - service vlan id Field type <Eqpt::CVlan> - customer vlan id	

Table 31.6-2 "PPPoX Cross-connect Client Port Configuration Command" Command Parameters

Parameter	Type	Description
vlan-id	Parameter type: <Network::StackedVlanSigned> Format: ( <Network::UVlanIndex>   stacked : <Network::SVlanIndex> : <Network::CVlanIndex> ) Possible values: - stacked : stacked vlan identity Field type <Network::UVlanIndex> - unstacked vlan identity - range: [1...4093] Field type <Network::SVlanIndex> - service vlan identity - range: [2...4093] Field type <Network::CVlanIndex> - customer vlan identity - range: [0...4093]	<i>mandatory parameter</i> <i>The parameter is not visible during modification.</i> associates client port to cc-engine
default-priority	Parameter type: <PPPoX::DefaultPriority> Format: - indicates the p-bit for the client port - range: [0...7]	<i>mandatory parameter</i> indicates the p-bit for the client port
[no] max-cc	Parameter type: <PPPoX::MaxNumPppCc> Format: - max no. of PPP cross connection on a port - range: [1...64], [9...64] = 8 with MAC concentration.	<i>optional parameter with default value: 64</i> max no. of PPP cross connection on a port
[no] qos-profile	Parameter type: <PPPoX::QosProfileName> Format: ( none   name : <PPPoX::IgnoredQosProfileName> ) Possible values: - none : no profile name to associate - name : enter profile name to be associated Field type <PPPoX::IgnoredQosProfileName> - name of the QoS profile - length: 1<=x<=32	<i>optional parameter with default value: "none"</i> qos profile name associated with client port

## 31.7 PPPoX Cross-connect Client Port Monitoring Configuration Command

### Command Description

*This command allows the operator to configure the exception event counters for the PPP cross-connect client port.*

### User Level

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

### Command Syntax

The command has the following syntax:

```
> configure pppox-relay cross-connect client-port (port) ( no monitor ) | ( monitor )
```

### Command Parameters

**Table 31.7-1 "PPPoX Cross-connect Client Port Monitoring 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-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> : <Eqpt::UnstackedVlan>   vlan-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::UnstackedVlan>   vlan-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : <Eqpt::VpiId> : <Eqpt::VciId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan>   vlan-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan>   vlan-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan>   vlan-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId> : <Eqpt::UnstackedVlan>	client port identification

Resource Identifier	Type	Description
	<Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::OntSlotId> / <Eqpt::OntPortId>   vlan-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / voip : stacked : <Eqpt::SVlan> : <Eqpt::CVlan>   vlan-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / vuni : stacked : <Eqpt::SVlan> : <Eqpt::CVlan>   vlan-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / voip : <Eqpt::UnstackedVlan>   vlan-port : <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-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::LLId> : <Eqpt::UnstackedVlan>   vlan-port : <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::LLId> : stacked : <Eqpt::SVlan> : <Eqpt::CVlan>   <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PonId> / <Eqpt::OntId> / <Eqpt::LLId> ) Possible values: - vlan-port : 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::OntId> - the ONT identifier Possible values: - voip : virtual uni identifier obsolete alternative replaced by vuni - vuni : virtual uni identifier Field type <Eqpt::OntSlotId> - the ONT SLOT identifier Field type <Eqpt::OntPortId> - the 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	

## 31 PPPoX-Relay Configuration Commands

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Resource Identifier	Type	Description
	Field type <Eqpt::UnstackedVlan> - unstacked vlan id Field type <Eqpt::SVlan> - service vlan id Field type <Eqpt::CVlan> - customer vlan id	