Cisco Remote PHY Shelf 7200 Trunk VLAN Configuration

This document describes how to configure trunk VLAN for the Cisco Remote PHY Shelf 7200 Software 1.1.

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Hardware Compatibility Matrix for Cisco Remote PHY Shelf 7200

Note Unless otherwise specified, the hardware components introduced in a given Cisco Remote PHY Shelf 7200 Software Release are supported in all subsequent releases.

Table 1: Hardware Compatibility Matrix for the Cisco Remote PHY Shelf 7200

Cisco CMTS Platform	Cisco Remote PHY Shelf 7200
Cisco cBR-8 Converged Broadband Router with Cisco IOS XE Gibraltar 16.10.1 and Later Releases	**Cisco Remote PHY Shelf 7200 Software 1.1 and Later Releases** Cisco Remote PHY Shelf 7200 • PID—HA-RPHY

Trunk VLAN

The Trunk VLAN feature enables you to configure virtual LAN on your Remote PHY Shelf 7200 device.

Each Remote PHY Shelf 7200 device has six uplink ports. Each upink port has two VLAN modes—access mode and trunk mode. Access mode is the default mode.

Each port can be configured in a different VLAN mode. However, if you want to configure link redundancy, all ports must be configured in the same mode.

In the trunk mode, ingress and egress packets have VLAN tags. In the access mode, packets do not have VLAN tags.

Configure Trunk VLAN

To configure trunk vlan, follow these steps.

```
HA-FCC# configure terminal
HA-FCC(config)# trunk vlan vlan_id slot slot_id erpd erpd_index
```

Table 2: Syntax Description

vlan_id	ID for the IEEE 802.1Q Virtual Local Area Network (VLAN) that should be used to tag the frames for this cable modem. The range is 2–4094.
slot_id	Slot number of the line card. The slot ID can be 0–5 and 7–12.
erpd_index	Specify the erpd. The erpd index is typically 0–5.

This example shows how to configure trunk VLAN.

```
HA-FCC(config)# trunk vlan 423 slot 12 erpd 0

eRPD trunk vlan configured successfully.
```

Verify Trunk VLAN Configuration

To view the trunk VLAN configuration, follow these steps.

```
show trunk vlan
```

This is an example of verifying trunk VLAN configuration.

```
HA-FCC# show trunk vlan
Slot  eRPD  VLAN
12    0          423
12    1          423
12    2          423
12    3          423
12    4          423
```

To view the trunk VLAN ID, slot number, and the erpd number, run the **show run | se trunk** or the **show startup-config | se trunk** command.

```
FCC# show run | se trunk
```

```
trunk vlan 423 slot 12 erpd 0
trunk vlan 423 slot 12 erpd 1
trunk vlan 423 slot 12 erpd 2
trunk vlan 423 slot 12 erpd 3
trunk vlan 423 slot 12 erpd 4

FCC# show startup-config | sec trunk
trunk vlan 423 slot 1 erpd 0
trunk vlan 423 slot 1 erpd 1
trunk vlan 423 slot 1 erpd 2
```

Feature Information for Trunk VLAN

Note The following table lists the software release in which a given feature is introduced. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Table 3: Feature Information for Trunk VLAN

Feature Name	Releases	Feature Information
Trunk VLAN	Cisco Remote PHY Shelf 7200 Software 1.1	This feature was introduced on the Cisco Remote PHY Shelf 7200 device.