



Gigabit Ethernet Interfaces Commands

This section describes the commands used to configure Gigabit Ethernet services for Layer 2 VPNs.

For detailed information about concepts and configuration, see the Configure Gigabit Ethernet for Layer 2 VPNs chapter in the *L2VPN and Ethernet Services Configuration Guide for Cisco NCS 5000 Series Routers*.

- [l2transport \(Ethernet\), on page 2](#)
- [flood mode ac-ingress-replication, on page 4](#)

I2transport (Ethernet)

To enable Layer 2 transport port mode on an Ethernet interface and enter Layer 2 transport configuration mode, use the **I2transport** command in interface or Subinterface configuration mode for an Ethernet interface. To disable Layer 2 transport port mode on an Ethernet interface, use the **no** form of this command.

I2transport
no I2transport

This command has no keywords or arguments.

Command Default

None

Command Modes

Interface configuration
 Sub-interface configuration

Command History

Release	Modification
Release 6.0	This command was introduced.

Usage Guidelines

The I2transport command and these configuration items are mutually exclusive:

- IPv4 address and L3 feature configuration
- IPv4 enable and L3 feature configuration
- Bundle-enabling configuration
- L3 sub-interfaces
- Layer 3 QoS Policy



Note

- After an interface or connection is set to Layer 2 switched, commands such as **ipv4 address** are not usable. If you configure routing commands on the interface, **I2transport** is rejected.
- The **I2transport** command is mutually exclusive with any Layer 3 interface configuration.

Task ID

Task ID	Operations
I2vpn	read, write

Examples

The following example shows how to enable Layer 2 transport port mode on an Ethernet interface and enter Layer 2 transport configuration mode:

```
Router# configure
Router(config)# interface TenGigE 0/2/0/0
Router(config-if)# I2transport
Router(config-if-l2)#
```



Note Ensure that the **l2transport** command is applied on the same line as the **interface** command for the Ethernet sub-interface.

The following example shows how to use the l2transport command on an Ethernet sub-interface:

```
Router# configure
Router(config)# interface TenGigE 0/1/0/3.10 l2transport
Router(config-subif)# encapsulation dot1q 10
```

Examples

The following example shows how to configure an interface or connection as Layer 2 switched under several different modes:

Ethernet Port Mode:

```
Router# configure
Router(config)# interface TenGigE 0/0/0/10
Router(config-if)# l2transport
```

Ethernet VLAN Mode:

```
Router# configure
Router(config)# interface TenGigE 0/0/0/0.1 l2transport
Router(config-if)# encapsulation dot1q 10
```

Ethernet VLAN Mode (QinQ):

```
Router# configure
Router(config)# interface TenGigE 0/0/0/0.1 l2transport
Router(config-if)# encapsulation dot1q 10 second-dot1q 11
```



Note Ensure that the **l2transport** command is applied on the same line as the **interface** command for the Ethernet subinterface.

Related Commands

Command	Description
encapsulation dot1q	Defines the matching criteria to map 802.1Q frames ingress on an interface to the appropriate service instance.
encapsulation dot1q second-dot1q	Defines the matching criteria to map Q-in-Q ingress frames on an interface to the appropriate service instance.

flood mode ac-ingress-replication

To add BUM traffic queueing support for attachment circuits in a bridge domain, use the **flood mode ac-ingress-replication** command in the L2VPN bridge group bridge domain configuration mode. To return to the default behavior, use the **no** form of this command.

flood mode ac-ingress-replication

This command has no keywords or arguments.

Command Default	BUM traffic queueing support is not supported for attachment circuits in a bridge domain.
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Command Modes	L2VPN bridge group bridge domain configuration
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Command History	Release	Modification	
	7.2.1	Release	This command was introduced.
	7.2.2	Release	This command was deprecated.

Usage Guidelines	BUM traffic queueing support for attachment circuits in a bridge domain is not supported on devices that have multiple NPUs or line cards. It is only supported on single NPU devices.
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Perform this task to add BUM traffic queueing support for attachment circuits in a bridge domain

```
Router# configure
Router(config)# l2vpn
Router(config-l2vpn)# bridge group 10
Router(config-l2vpn-bg)# bridge-domain 1
Router(config-l2vpn-bg-bd)# flood mode ac-ingress-replication
Router(config-l2vpn-bg-bd)# commit
```