

L2CP Tunneling MEF

This chapter introduces you to L2 Control Protocols (L2CP) tunneling to help initiate control packets from a local customer-edge (CE) device to a remote CE device.

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L2CP Tunneling

The router supports the following tunnel protocols:

- Link Layer Discovery Protocol (LLDP)
- Link Aggregation Control Protocol (LACP)
- Operation, Administration, Management (OAM)
- Ethernet Local Management Interface (ELMI)
- Cisco Discovery Protocol (CDP)

Some of the L2 transport interfaces are:

- VPWS L2 transport main
- VPWS L2 subinterface
- L2 transport main bridge port
- L2 subinterface bridge port
- VPWS L2 bundle main port
- VPWS L2 bundle subinterface
- L2 bundle main bridge port

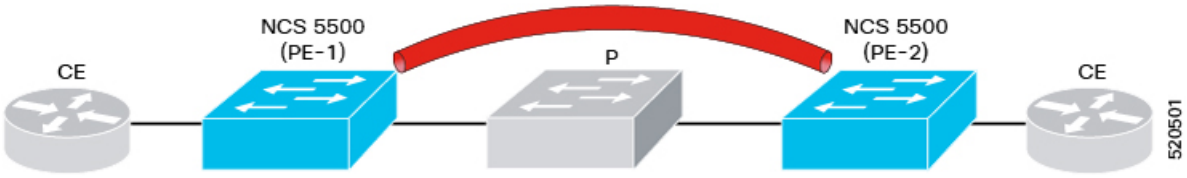
On a subinterface, when control packets such as LLDP and LACP are tunneled, the system tunnels the same control packets to the main interface.

The LACP packet for VPLS (also known as ELAN service) either gets peered or dropped.

The router tunnels Layer 2 packets between PEs.

The following figure depicts Layer 2 protocol tunneling.

Figure 1: L2CP Tunneling



L2CP packets are tunneled from NNI to NNI (depicted in red pipe). The Layer 2 traffic is sent through the Cisco NCS Routers, and these routers switch the traffic from end to end.

Restrictions

- VPLS service does not support LACP tunneling.
- VPWS and EVPN-VPWS services support LACP tunneling.

L2CP Protocol Support on Cisco NCS Series Router

You do not need to configure L2CP tunneling explicitly. L2CP packets are tunneled over Layer 2 tunnel by default.

The following table lists the options that are supported on the router and displays the supported defaults and configuration options for the router.

Note LLDP will not detect neighboring devices if the main interface has a sub-interface configured with **encapsulation untagged** or **encapsulation default**.

Protocol	Packet Type	Action
CDP	Untagged	Peer
LACP	Untagged	Peer
LLDP	Untagged	Peer else Tunneled
STP	Untagged	Peer
VTP	Untagged	Peer
OAM	Untagged	Peer
BPDU	Untagged	Tunneled
UDLD	Untagged	Tunneled
CDP	Tagged	Tunneled
LACP	Tagged	Tunneled

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LLDP	Tagged	Tunneled
STP	Tagged	Tunneled
VTP	Tagged	Tunneled
BPDU	Tagged	Tunneled
OAM	Tagged	Tunneled
ELMI	Tagged	Tunneled
UDLD	Tagged	Tunneled



Note L2CP protocols over BVI is not supported.