
Configure LLDP

 For supported software information, click [here](#).

The Link Layer Discovery Protocol (LLDP) allows network devices to discover a neighbor device's identity and capabilities on a LAN using a set of attributes. These attributes are referred to as TLVs, which contain type, length, and value descriptions. Devices that support LLDP use TLVs to receive and send information, such as configuration information, device capabilities, and device identity.

The Versa Operating System™ (VOS™) implementation of LLDP is based on the IEEE 802.1AB standard.

LLDP PDUs have the following properties:

- They are constrained to a local link.
- They are of the form type-length-value (TLV) form.
- They use the destination multicast address 01-80-C2-00-00-0E.

VOS devices support the following optional basic management TLVs, which are enabled by default:

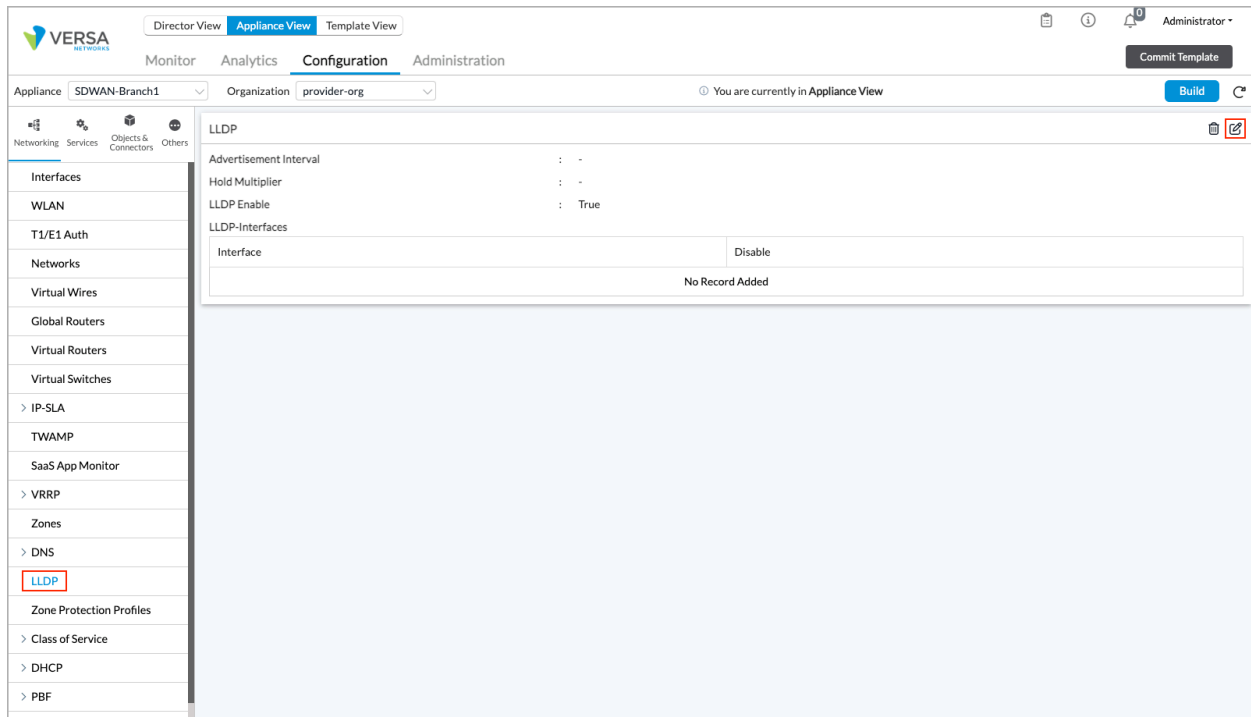
- MAC and PHY information
- Maximum frame size
- Port name and description
- Port VLAN ID
- System capabilities, such as routing and switching
- System name and description
- VLAN name

Note that link aggregation is supported only on the LAN side. To achieve WAN-side link aggregation, use SD-WAN load balancing and assign individual IP addresses for each WAN interface.

Configure LLDP

1. In Director view:
 - a. Select the Administration tab in the top menu bar.
 - b. Select Appliances in the left menu bar.
 - c. Select an appliance in the main panel. The view changes to Appliance view.

2. Select the Configuration tab in the top menu bar.
3. Select Networking > LLDP in the left menu bar. The LLDP pane displays.



4. Click the  Edit icon in the LLDP pane. In the Edit LLDP popup window, enter information for the following fields.

×

Edit LLDP

Advertisement Interval

30

Hold Multiplier

4

☒ LLDP Enable

Interface

Disabled

---Please Select---

+

☐

No Records to Display

OK

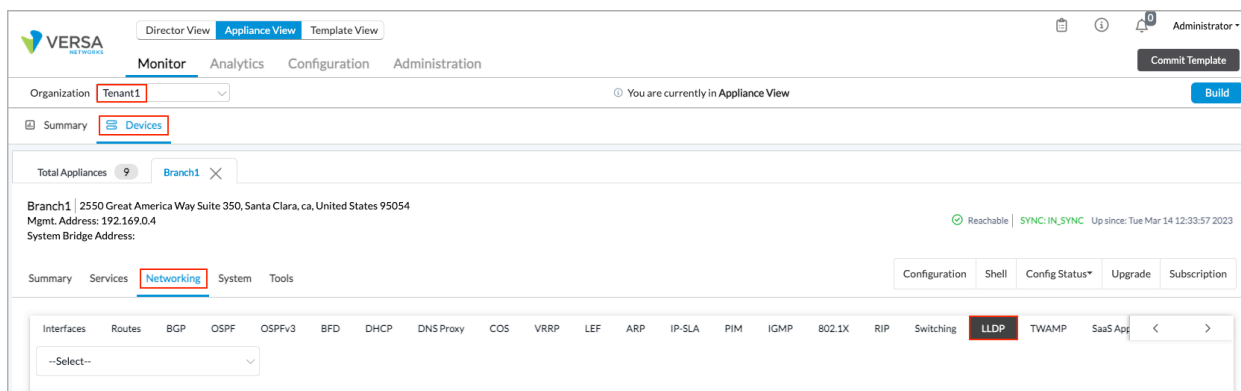
Cancel

Field	Description
Advertisement Interval	<p>Enter the time interval for sending LLDP BPDUs.</p> <p><i>Range:</i> 5 through 32768 seconds</p> <p><i>Default:</i> 30 seconds</p>
Hold Multiplier	<p>Enter a value for the LLDP hold multiplier. The hold multiplier is how long to cache info discarding it. If the device does not receive an LLDP packet from a connected device or device from the neighbor information.</p> <p><i>Range:</i> 2 to 10</p> <p><i>Default:</i> 4</p>
LLDP Enable	Click to enable LLDP.
Interface	<p>Select an interface on which to enable LLDP. Click Disable box to disable LLDP on the enabled. Click the Add icon to add the interface. Click the Delete icon to delete</p>

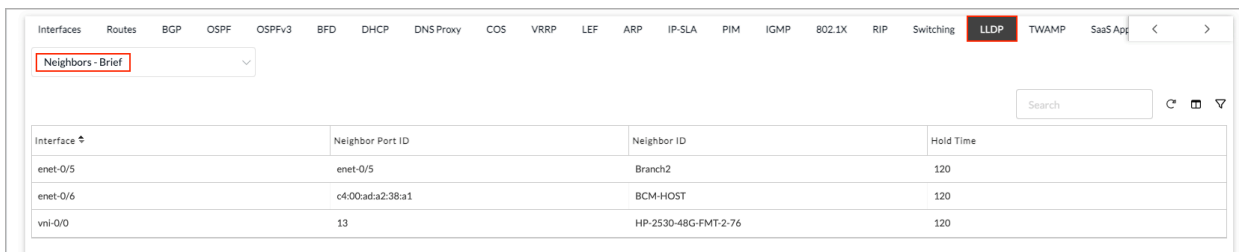
5. Click OK.

Monitor LLDP

1. In Director view, select the Monitor tab in the top menu bar.
2. In the Organization field, select a provider organization from the drop-down list.
3. Select the Devices tab in the horizontal submenu bar.
4. Click a device in the main pane.
5. Select the Networking in the horizontal menu bar, then select the LLDP tab to display LLDP information.



- a. Select **Neighbors - Brief** from the drop-down list to information about all LLDP neighbors.



- b. Select **Neighbors - Detail** from the drop-down list to display detailed information about all LLDP neighbors.

Interfaces

Routes

BGP

OSPF

OSPFv3

BFD

DHCP

DNS Proxy

COS

VRRP

LEF

ARP

IP-SLA

PIM

IGMP

802.1X

RIP

Switching

LLDP

TWAMP

SaaS App

<

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Neighbors - Detail

Search

Lldp IF Det

Par Iface

Lct

Neighbor

MAC

Is First

enet-0/5

none

00:01:07

Neighbour Information:

Chassis Information:

ChassisID: mac 0a:30:f8:45:4f:00

System name: Branch2

System Desc: versa-flexvnf-20230307...

Hold Time: 120

System Capabilities

Supported: BRIDGE,WLAN,ROUTER,S...

Enabled: BRIDGE,ROUTER

Port Information:

Port Id: ifname enet-0/5

Port Descr: enet-0/5

Organization Info:

PMD autoneg: supported: yes, enabled: yes

PMD Autonegotiation Capability: 1000Bas...

MAU oper type: 10Base5 - Thick coax MAU

IEEE802.1/IEEE802.3 Link Aggregation

Link Aggregation Status: Capable, Disab...

Port ID: 0

IEEE802.3 Maximum Frame Size 1500

1

Neighbour Information:

Chassis Information:

ChassisID: mac c4:00:ad:a2:38:a4

System name: BCM-HOST

c. Select **Statistics** from the drop-down list to display statistics about all LLDP neighbors.

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COS

VRRP

LEF

ARP

IP-SLA

PIM

IGMP

802.1X

RIP

Switching

LLDP

TWAMP




SaaS App

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Statistics

Search



Interface	RX	TX	Unknown TLVs	Discarded
enet-0/5	20706	124141	0	0
enet-0/6	20705	124141	0	0
vni-0/0	20710	124141	1	0

Supported Software Information

Releases 21.1.1 and later support all content described in this article, except as noted:

- Releases 22.1.1 and later support enet interfaces.

Additional Information

[Configure Layer 2 Forwarding](#)