



Configuring LLDP

This chapter describes how to configure the Link Layer Discovery Protocol (LLDP) in order to discover other devices on the local network.

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About LLDP

The Cisco Discovery Protocol (CDP) is a device discovery protocol that allows network management applications to automatically discover and learn about other Cisco devices that are connected to the network.

To permit the discovery of non-Cisco devices, the switch also supports the Link Layer Discovery Protocol (LLDP), a vendor-neutral device discovery protocol that is defined in the IEEE 802.1ab standard. LLDP allows network devices to advertise information about themselves to other devices on the network. This protocol runs over the data-link layer, which allows two systems running different network layer protocols to learn about each other.

LLDP is a one-way protocol that transmits information about the capabilities and current status of a device and its interfaces. LLDP devices use the protocol to solicit information only from other LLDP devices.

LLDP supports a set of attributes that it uses to discover other devices. These attributes contain type, length, and value (TLV) descriptions. LLDP devices can use TLVs to send and receive information to other devices on the network. Details such as configuration information, device capabilities, and device identity can be advertised using this protocol.

LLDP advertises the following TLVs by default:

- DCBXP
- Management address
- Port description
- Port VLAN

- System capabilities
- System description
- System name

About DCBXP

The Data Center Bridging Exchange Protocol (DCBXP) is an extension of LLDP. It is used to announce, exchange, and negotiate node parameters between peers. DCBXP parameters are packaged as DCBXP TLVs in the LLDP packet. If CEE is used, DCBXP will use an acknowledgment mechanism over LLDP. When the port comes up, DCBX TLVs are sent and any DCBX TLVs received are processed. By default, the DCBX protocol is set to auto-detect, and the latest protocol version supported by both the peers is used.

Features that need to exchange and negotiate parameters with peer nodes using DCBXP are as follows:

- **Priority-based Flow Control (PFC)**—PFC is an enhancement to the existing Pause mechanism in Ethernet. It enables Pause based on user priorities or classes of service. A physical link that is divided into eight virtual links with PFC provides the capability to use Pause on a single virtual link without affecting traffic on the other virtual links. Enabling Pause on a per-user-priority basis allows administrators to create lossless links for traffic requiring no-drop service while retaining packet-drop congestion management for IP traffic.
- **Enhanced Transmission Selection (ETS)**—ETS enables optimal bandwidth management of virtual links. ETS is also called priority grouping. It enables differentiated treatments within the same priority classes of PFC. ETS provides prioritized processing based on bandwidth allocation, low latency, or best effort, resulting in per-group traffic class allocation. For example, an Ethernet class of traffic may have a high-priority designation and a best effort within that same class. ETS allows differentiation between traffic of the same priority class, thus creating priority groups.
- **Application Priority Configuration**—Carries information about the priorities that are assigned to specific protocols.
- **Priority to DSCP Mapping**—The mapping of the DSCP and COS values configured in the QoS policy are sent in the Application Priority TLV.



Note For information on the quality of service (QoS) features, see the *Cisco Nexus 9000 Series NX-OS Quality of Service Configuration Guide*.

DCBXP is enabled by default, provided LLDP is enabled. When LLDP is enabled, DCBXP can be enabled or disabled using the **[no] lldp tlv-select dcbxp** command. DCBXP is disabled on ports where LLDP transmit or receive is disabled.

Beginning with Cisco NX-OS Release 10.2(3)F, an additional command is introduced: **[no] lldp tlv-select dcbxp egress-queuing**. While the **[no] lldp tlv-select dcbxp** command sends input queuing parameters in the ETS information that is exchanged with the peer, the **[no] lldp tlv-select dcbxp egress-queuing** command sends output queuing parameters in the ETS information. Hence, the bandwidths and priority information are extracted from the output queuing policy and exchanged with the peer.

At a time, you can configure either egress queuing or ingress queuing by running either **lldp tlv-select dcbxp egress-queuing** or **lldp tlv-select dcbxp** command as they overwrite each other.

The no forms of both the commands stop the DCBXP exchange on all interfaces.

To view which of the above two commands is enabled, run the **show lldp tlv-select** command.

When the default input queuing policy at system level is detached, the DCBXP exchange on all interfaces will stop sending ETS configuration and recommendation TLVs. However, the default output queuing policy at the system level cannot be detached.

High Availability

The LLDP feature supports stateless and stateful restarts. After a reboot or supervisor switchover, the running configuration is applied.

For more information on high availability, see the *Cisco Nexus 9000 Series NX-OS High Availability and Redundancy Guide*.

Virtualization Support

One instance of LLDP is supported.

Guidelines and Limitations for LLDP

LLDP has the following configuration guidelines and limitations:

- The LLDP feature must be enabled on the device before you can enable or disable the LLDP protocol on any interfaces.
- LLDP is supported only on physical interfaces.
- LLDP can discover up to one device per port.

Beginning with Release 10.1(1), multiple LLDP neighbors per physical interface are supported on the following platforms:

- N9K-C93180YC-FX3S
- N9K-C93108TC-FX3P
- N9K-C93180YC-FX3
- DCBXP is supported on the following platforms:
 - Cisco Nexus 9200, 9300-EX, 9300-FX, 9300-FX2 and 9300-FX3 Series switches
 - Cisco Nexus 9332C, 9332PQ, 9364C, 9372PX, 9372PX-E, and 9396PX switches
 - Cisco Nexus 9504 and 9508 switches with X9432PQ, X9464PX, X9536PQ, X9564PX, X9636PQ, X9732C-EX, and X9736C-FX, line cards
- The Cisco Nexus 3232C and 3264Q switches do not support DCBXP.
- DCBXP incompatibility messages might appear when you change the network QoS policy on a switch, if a physical cable loopback connection is present on the device. The incompatibility exists for only a short time and then resolves on its own.

- PFC TLVs are sent when pause is enabled for at least one COS value in a network-qos policy and the priority-flow-control mode is set to auto at the interface level.
- Beginning with Cisco NX-OS Release 10.2(3)F, the **[no] lldp tlv-select dcbxp egress-queuing** command is introduced to provide you the option to advertise egress queuing configuration in the switch. This feature is supported on Cisco Nexus 9200, 9300-EX, and 9300-FX platform switches.
- DCBX TLVs are sent when ingress queuing is applied if **lldp tlv-select dcbxp** command is used and when output queuing is applied if **lldp tlv-select dcbxp egress-queuing** is used.
- Beginning with Cisco NX-OS Release 10.2(3)F, the Correctly Advertise LLDP Chassis-ID feature introduces a new global configuration command—**lldp chassis-id switch**—to advertise the switch chassis MAC address instead of the port MAC address, that is, all the ports will publish only the MAC address of the switch chassis. This feature is supported on all Cisco Nexus 9000 series platform switches.
- Beginning with Cisco NX-OS Release 10.3(1)F, LLDP (Multi Neighbor and Port- channel) is supported on the Cisco Nexus 9808 platform switches.
- Beginning with Cisco NX-OS Release 10.3(1)F, PFC and ECN are supported on Cisco Nexus 9300-FX3 platform switches. On 9300-FX3 switches operating in FEX mode, DCBX is supported with ingress queuing.
- Beginning with Cisco NX-OS Release 10.3(2)F, new optional parameters such as 802.1 link aggregation, 802.1 vlan name, and 802.3 max frame size are enabled by default for the **lldp tlv-select** command.

The **VLAN name TLV** only has the first 32 characters of the VLAN name, per the standards. Only the names of 25 active VLANs are displayed.

- Beginning with Cisco NX-OS Release 10.4(1)F, LLDP is supported on the following switches and line cards:
 - Cisco Nexus 9804 platform switch
 - Cisco Nexus X98900CD-A line card
 - Cisco Nexus X98900CD-A line card with Cisco Nexus 9808 and 9804 switches
- The system name in LLDP can also display the domain name if it is configured. If the management VRF has a domain-name configured, then that is given higher priority over the default VRF domain-name. If no domain-name exists for the management VRF, then we check for default VRF domain-name and use that if its configured.

Default Settings for LLDP

This table lists the LLDP default settings.

Parameters	Default
Global LLDP	Disabled
LLDP on interfaces	Enabled, after LLDP is enabled globally
LLDP hold time (before discarding)	120 seconds
LLDP reinitialization delay	2 seconds

Parameters	Default
LLDP timer (packet update frequency)	30 seconds
LLDP TLVs	Enabled
LLDP receive	Enabled, after LLDP is enabled globally
LLDP transmit	Enabled, after LLDP is enabled globally
DCBXP	Enabled, provided LLDP is enabled
DCBXP version	Auto-detect

Configuring LLDP



Note Cisco NX-OS commands for this feature may differ from Cisco IOS commands for a similar feature.

Enabling or Disabling LLDP Globally

You can enable or disable LLDP globally on a device. You must enable LLDP globally to allow a device to send and receive LLDP packets.

SUMMARY STEPS

1. **configure terminal**
2. **[no] feature lldp**
3. (Optional) **[no] lldp chassis-id switch**
4. (Optional) **show running-config lldp**
5. (Optional) **copy running-config startup-config**

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	configure terminal Example: switch# configure terminal switch(config)#	Enters global configuration mode.
Step 2	[no] feature lldp Example: switch(config)# feature lldp	Enables or disables LLDP on the device. LLDP is disabled by default. Note When this command is enabled, by default, the switch advertises the port MAC address per port.

	Command or Action	Purpose
Step 3	(Optional) [no] lldp chassis-id switch Example: <pre>switch(config)# lldp chassis-id switch</pre>	Enable this command to indicate that the switch chassis MAC address must be advertised for all the ports. Use the no form of this command to revert to advertising the port MAC address per port. Note Use the show vdc detail command to view the switch chassis MAC address.
Step 4	(Optional) show running-config lldp Example: <pre>switch(config)# show running-config lldp</pre>	Displays the global LLDP configuration. If LLDP is enabled, it shows "feature lldp." If LLDP is disabled, it shows an "Invalid command" error.
Step 5	(Optional) copy running-config startup-config Example: <pre>switch(config)# copy running-config startup-config</pre>	Copies the running configuration to the startup configuration.

Enabling or Disabling LLDP on an Interface

After you globally enable LLDP, it is enabled on all supported interfaces by default. However, you can enable or disable LLDP on individual interfaces or selectively configure an interface to only send or only receive LLDP packets.

Before you begin

Make sure that you have globally enabled LLDP on the device.

SUMMARY STEPS

1. **configure terminal**
2. **interface interface slot/port**
3. **[no] lldp transmit**
4. **[no] lldp receive**
5. (Optional) **show lldp interface interface slot/port**
6. (Optional) **copy running-config startup-config**

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	configure terminal Example:	Enters global configuration mode.

	Command or Action	Purpose
	switch# configure terminal switch(config)#	
Step 2	interface <i>interface slot/port</i> Example: switch(config)# interface ethernet 7/1 switch(config-if)#	Specifies the interface on which you are enabling LLDP and enters the interface configuration mode.
Step 3	[no] lldp transmit Example: switch(config-if)# lldp transmit	Enables or disables the transmission of LLDP packets on an interface. After you globally enable LLDP, it is enabled on all supported interfaces by default.
Step 4	[no] lldp receive Example: switch(config-if)# lldp receive	Enables or disables the reception of LLDP packets on an interface. After you globally enable LLDP, it is enabled on all supported interfaces by default.
Step 5	(Optional) show lldp interface <i>interface slot/port</i> Example: switch(config-if)# show lldp interface ethernet 7/1	Displays the LLDP configuration on the interface.
Step 6	(Optional) copy running-config startup-config Example: switch(config)# copy running-config startup-config	Copies the running configuration to the startup configuration.

Configuring DCBXP Egress Queuing

Use the following procedure to configure DCBXP egress queuing.

Before you begin

- Make sure that you have globally enabled LLDP on the device (global configuration command **feature lldp**).



Note After you globally enable LLDP, it is enabled on all supported interfaces by default.

SUMMARY STEPS

1. **configure terminal**
2. **lldp tlv-select dcbxp**
3. (Optional) **lldp tlv-select dcbxp egress-queuing**

DETAILED STEPS

Procedure		
	Command or Action	Purpose
Step 1	configure terminal Example: <pre>switch# configure terminal switch(config)#</pre>	Enters global configuration mode.
Step 2	Required: lldp tlv-select dcbxp Example: <pre>switch(config)# lldp tlv-select dcbxp switch(config)#</pre>	Enables DCBXP TLVs globally and starts sending input queuing parameters in the ETS information exchanged with the peer.
Step 3	(Optional) lldp tlv-select dcbxp egress-queuing Example: <pre>switch(config)# lldp tlv-select dcbxp egress-queuing switch(config)#</pre>	Enables DCBXP TLVs globally and starts sending output queuing parameters in the ETS information.

Configuring the DCBXP Protocol Version

You can specify the protocol version in which the DCBX TLVs are sent.

**Note**

- Nexus 9000 switches do not support auto-negotiating or hard coding DCBXP TLV using CIN version.
- If the peers are not running the same version, DCBX parameters may not converge for the link. Reset the link for the new protocol version to take effect.

Before you begin

Make sure that you have globally enabled LLDP on the device.

SUMMARY STEPS

1. **configure terminal**
2. **interface** *interface* *slot/port*
3. **lldp dcbx version** *cee/ieee/auto*

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	configure terminal Example: <pre>switch# configure terminal switch(config)#</pre>	Enters global configuration mode.
Step 2	interface interface slot/port Example: <pre>switch(config)# interface ethernet 1/25 switch(config-if)#</pre>	Enters interface configuration mode.
Step 3	lldp dcbx version cee/ieee/auto Example: <pre>switch(config-if)#lldp dcbx version cee</pre>	Specifies the protocol version mode sent. • The <i>cee</i> variable sets the port to only send TLVs in Converged Enhanced Ethernet (CEE) protocol version. • The <i>ieee</i> variable sets the port to only send TLVs in IEEE 802.1Qaz protocol version. • The <i>auto</i> variable sets the port to send TLVs in the latest protocol version supported by both the peers. The default is set to <i>auto</i>. Note Devices that do not support IEEE 802.1Qaz may not properly respond to auto-negotiation attempts and may require the interface to be manually configured for <code>lldp dcbx version cee</code>.

Multiple LLDP Neighbors Per Physical Interface

Often times a network device sends multiple LLDP packets, out of which one is from the actual host. If a Cisco Nexus switch is communicating with the device but can only manage a single LLDP neighbor per interface, there is a good chance that becoming a neighbor with the actual required host will fail. To minimize this, Cisco Nexus switch interfaces can support multiple LLDP neighbors creating a better opportunity of becoming an LLDP neighbor with the correct device.

Support for multiple LLDP neighbors over the same interface requires LLDP multi-neighbor support to be configured globally.

**Note**

You must disable DCBX globally before configuring LLDP multi-neighbor support. Failure to do so invokes an error message.

Enabling or Disabling LLDP Multi-Neighbor Support

Before you begin

Consider the following before enabling LLDP multi-neighbor support on the interfaces:

- Make sure that you have globally enabled LLDP on the device (global configuration command **feature lldp**).



Note After you globally enable LLDP, it is enabled on all supported interfaces by default.

- A maximum of three (3) neighbors are supported on an interface.
- LLDP multi-neighbor is not supported on FEX interfaces.

SUMMARY STEPS

1. **configure terminal**
2. **no lldp tlv-select dcbxp**
3. **no lldp tlv-select dcbxp egress-queuing**
4. **[no] lldp multi-neighbor**
5. **interface port / slot**
6. (Optional) **[no] lldp transmit**
7. (Optional) **[no] lldp receive**
8. (Optional) **show lldp interface port / slot**
9. (Optional) **copy running-config startup-config**

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	configure terminal Example: <pre>switch# configure terminal switch(config)#</pre>	Enters global configuration mode. Note If the output of the show lldp tlv-select command shows dcbxp, then perform step 2 and skip step 3. If the output shows dcbxp egress-queuing then skip step 2 and perform step 3. This is required to avoid invoking an error message when you configure LLDP multi-neighbor support.
Step 2	Required: no lldp tlv-select dcbxp Example:	Disables DCBXP TLVs globally.

	Command or Action	Purpose
	<pre>switch(config)# no lldp tlv-select dcbxp switch(config)#</pre>	
Step 3	Required: no lldp tlv-select dcbxp egress-queuing Example: <pre>switch(config)# no lldp tlv-select dcbxp egress-queuing switch(config)#</pre>	Disables DCBXP TLVs globally.
Step 4	Required: [no] lldp multi-neighbor Example: <pre>switch(config)# lldp multi-neighbor switch(config)#</pre>	Enables or disables LLDP multi-neighbor support for all interfaces globally.
Step 5	interface port / slot Example: <pre>switch(config)# interface 1/1 switch(config-if)#</pre>	Specifies the interface on which you are enabling LLDP and enters the interface configuration mode.
Step 6	(Optional) [no] lldp transmit Example: <pre>switch(config-if)# lldp transmit</pre>	Disables (or enables) the transmission of LLDP packets on the interface. Note The transmission of LLDP packets on this interface was enabled using the global feature lldp command. This option is to disable the feature for this specific interface.
Step 7	(Optional) [no] lldp receive Example: <pre>switch(config-if)# lldp receive</pre>	Disables (or enables) the reception of LLDP packets on the interface. Note The reception of LLDP packets on this interface was enabled using the global feature lldp command. This option is to disable the feature for this specific interface.
Step 8	(Optional) show lldp interface port / slot Example: <pre>switch(config-if)# show lldp interface 1/1</pre>	Displays the LLDP configuration on the interface.
Step 9	(Optional) copy running-config startup-config Example: <pre>switch(config)# copy running-config startup-config</pre>	Copies the running configuration to the startup configuration.

Enabling or Disabling LLDP Support on Port-Channel Interfaces

Before you begin

Consider the following before enabling LLDP support on port-channels:

- Make sure that you have globally enabled LLDP on the device (global configuration command **feature lldp**).



Note After you globally enable LLDP, it is enabled on all supported interfaces by default.

- Applying the **lldp transmit** and **lldp receive** configuration commands to a port-channel does not affect the configuration for the members of the port-channel.
- LLDP neighbors form between the port-channels only when LLDP transmit and receive is configured on both sides of the port-channel.
- The LLDP transmit and receive commands do not work on MCT, VPC, fex-fabric, FEX port-channels, and port-channel sub-interfaces.



Note If you enable the LLDP port-channel feature globally, the LLDP configuration is not applied to any of these port types. If the configuration is removed from the port-channels or the port type feature is disabled globally, you cannot use the **lldp port-channel** command to enable it on the newly supported port-channels. The command was already issued. To enable LLDP port-channel on the port-channels in question, configure **lldp transmit** and **lldp receive** for each port-channel (see steps 4, 5, and 6 in the following procedure).

SUMMARY STEPS

1. **configure terminal**
2. **no lldp tlv-select dcbxp**
3. **no lldp tlv-select dcbxp egress-queuing**
4. **[no] lldp port-channel**
5. **interface port-channel** [*port-channel-number* | *port-channel-range*]
6. (Optional) **[no] lldp transmit**
7. (Optional) **[no] lldp receive**
8. (Optional) **show lldp interface port-channel** *port-channel-number*
9. (Optional) **copy running-config startup-config**

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	configure terminal Example: <pre>switch# configure terminal switch(config)#</pre>	Enters global configuration mode. Note If the output of the show lldp tlv-select command shows dcbxp, then perform step 2 and skip step 3. If the output shows dcbxp egress-queuing then skip step 2 and perform step 3. This is required before configuring LLDP on port-channels.
Step 2	Required: no lldp tlv-select dcbxp Example: <pre>switch(config)# no lldp tlv-select dcbxp switch(config)#</pre>	Disables DCBXP TLVs globally.
Step 3	Required: no lldp tlv-select dcbxp egress-queuing Example: <pre>switch(config)# no lldp tlv-select dcbxp egress-queuing switch(config)#</pre>	Disables DCBXP TLVs globally.
Step 4	Required: [no] lldp port-channel Example: <pre>switch(config)# lldp port-channel switch(config)#</pre>	Enables or disables LLDP transmit and receive for all port channels globally.
Step 5	interface port-channel [<i>port-channel-number</i> <i>port-channel-range</i>] Example: <pre>switch(config)# interface port-channel 3 switch(config-if)#</pre> Example: Enter a range of port-channel numbers if you are configuring LLDP over more than one port-channel: <pre>switch(config)# interface port-channel 1-3 switch(config-if-range)#</pre>	Specifies the interface port-channel on which you are enabling LLDP and enters the interface configuration mode. Specifies the interface port-channel range on which you are enabling LLDP and enters the interface range configuration mode.
Step 6	(Optional) [no] lldp transmit Example: <pre>switch(config-if)# lldp transmit</pre>	Disables (or enables) the transmission of LLDP packets on the port-channel or range of port-channels. Note The transmission of LLDP packets on this port-channel was enabled using the global lldp port-channel command in step 3. This option is to disable the feature for this specific port-channel.

	Command or Action	Purpose
Step 7	(Optional) [no] lldp receive Example: <pre>switch(config-if)# lldp receive</pre>	Disables (or enables) the reception of LLDP packets on the port-channel or range of port-channels. Note The reception of LLDP packets on this port-channel was enabled using the global lldp port-channel command in step 3. This option is to disable the feature for this specific port-channel.
Step 8	(Optional) show lldp interface port-channel <i>port-channel-number</i> Example: <pre>switch(config-if)# show lldp interface port-channel 3</pre>	Displays the LLDP configuration on the port-channel.
Step 9	(Optional) copy running-config startup-config Example: <pre>switch(config)# copy running-config startup-config</pre>	Copies the running configuration to the startup configuration.

Configuring Optional LLDP Parameters

You can configure the frequency of LLDP updates, the amount of time for a receiving device to hold the information before discarding it, and the initialization delay time. You can also select the TLVs to include in LLDP packets.

SUMMARY STEPS

1. **configure terminal**
2. (Optional) **[no] lldp holdtime** *seconds*
3. (Optional) **[no] lldp reinit** *seconds*
4. (Optional) **[no] lldp timer** *seconds*
5. (Optional) **show lldp timers**
6. (Optional) **[no] lldp tlv-select** *tlv*
7. (Optional) **show lldp tlv-select**
8. (Optional) **copy running-config startup-config**

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	configure terminal Example:	Enters global configuration mode.

	Command or Action	Purpose
	switch# configure terminal switch(config)#	
Step 2	(Optional) [no] lldp holdtime <i>seconds</i> Example: switch(config)# lldp holdtime 200	Specifies the amount of time in seconds that a receiving device should hold the information that is sent by your device before discarding it. The range is 10 to 255 seconds; the default is 120 seconds.
Step 3	(Optional) [no] lldp reinit <i>seconds</i> Example: switch(config)# lldp reinit 5	Specifies the delay time in seconds for LLDP to initialize on any interface. The range is 1 to 10 seconds; the default is 2 seconds.
Step 4	(Optional) [no] lldp timer <i>seconds</i> Example: switch(config)# lldp timer 50	Specifies the transmission frequency of LLDP updates in seconds. The range is 5 to 254 seconds; the default is 30 seconds.
Step 5	(Optional) show lldp timers Example: switch(config)# show lldp timers	Displays the LLDP hold time, delay time, and update frequency configuration.
Step 6	(Optional) [no] lldp tlv-select <i>tlv</i> Example: switch(config)# lldp tlv-select system-name switch(config)# lldp tlv-select port link-aggregation	Specifies the TLVs to send and receive in LLDP packets. The available TLVs are management-address, port-description, port-vlan, system-capabilities, system-description, port vlan-name, port link-aggregation, port max-framesize, and system-name. All available TLVs are enabled by default. Use the no form of the command to disable the TLV.
Step 7	(Optional) show lldp tlv-select Example: switch(config)# show lldp tlv-select	Displays the LLDP TLV configuration.
Step 8	(Optional) copy running-config startup-config Example: switch(config)# copy running-config startup-config	Copies the running configuration to the startup configuration.

Verifying the LLDP Configuration

To display the LLDP configuration, perform one of the following tasks:

Command	Purpose
show running-config lldp	Displays the global LLDP configuration.
show lldp interface <i>interface slot/port</i>	Displays the LLDP interface configuration.

Command	Purpose
show lldp timers	Displays the LLDP hold time, delay time, and update frequency configuration.
show lldp tlv-select	Displays the LLDP TLV configuration.
show lldp neighbors {detail interface interface slot/port}	Displays the LLDP neighbor device status. Note If the neighboring switch advertises switch MAC, then this show command displays the switch MAC and if it advertises the port MAC, the show command will display the port MAC.
show lldp traffic	Displays the LLDP counters, including the number of LLDP packets sent and received by the device, the number of discarded packets, and the number of unrecognized TLVs.
show lldp traffic interface interface slot/port	Displays the number of LLDP packets sent and received on the interface.
show qos dcbxp interface slot/port	Displays DCBXP information for a specific interface.

Use the **clear lldp counters** command to clear the LLDP statistics.

Configuration Example for LLDP

This example shows how to enable LLDP on a device; disable LLDP on some interfaces; configure optional parameters such as hold time, delay time, and update frequency; and disable several LLDP TLVs:

```
switch# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# feature lldp
switch(config)# interface ethernet 7/9
switch(config-if)# no lldp transmit
switch(config-if)# no lldp receive
switch(config-if)# exit
switch(config)# interface ethernet 7/10
switch(config-if)# no lldp transmit
switch(config-if)# no lldp receive
switch(config-if)# exit
switch(config)# lldp holdtime 200
switch(config)# lldp reinit 5
switch(config)# lldp timer 50
switch(config)# no lldp tlv-select port-vlan
switch(config)# no lldp tlv-select system-name
```