



# Configure Link Layer Discovery Protocol Using CTC

**Table 1: Feature History**

Feature Name	Release Information	Description
Link Layer Discovery Protocol (LLDP) on NCS4K-4H-OPW-QC2 line card	Cisco IOS XR Release 6.5.33	In addition to the existing support on packet interfaces, Link Layer Discovery Protocol (LLDP) is now enabled on the client ports of the NCS4K-4H-OPW-QC2 card that carry Ethernet-over-OTN traffic. This feature allows NCS 4000 to discover peer devices connected either on the OTN ports or the packet interfaces. As a result, it reduces the need to use multiple protocols for network management, especially in a multi-vendor network.

- [Link Layer Discovery Protocol for Ethernet-over-OTN, on page 1](#)
- [Enable LLDP on NCS4K-4H-OPW-QC2 Card using CTC, on page 2](#)
- [View Neighbor Device Details Using CTC, on page 2](#)

## Link Layer Discovery Protocol for Ethernet-over-OTN

LLDP is a link layer protocol that allows NCS 4000 devices to transmit and receive device information from its neighbor devices connected through the client ports 0 to 9 that support Ethernet over OTN configuration and the package interfaces of the NCS4K-4H-OPW-QC2 line card.

Some of the details that can be sent and gathered by NCS 4000 if LLDP is enabled are:

- System name and description
- Port name and description
- MAC address and IP address

- Capabilities of the device

## Enable LLDP on NCS4K-4H-OPW-QC2 Card using CTC

<b>Purpose</b>	This procedure describes how to enable LLDP on NCS 4000 using CTC that allows to learn the information of its peer devices connected through the Ethernet over OTN port.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	"Login to CTC" in System Setup and Software Installation Guide for Cisco NCS 4000 Series
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite
<b>Security Level</b>	Provisioning or higher

### Procedure

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- Step 1** In the node view, click **Provisioning > Network > LLDP**.
- Step 2** Select the **LLDP** check box.
- Step 3** Click **Apply**.
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## View Neighbor Device Details Using CTC

<b>Purpose</b>	This procedure enables you to view the details of the neighbor devices connected to NCS 4000 through the Ethernet over the OTN port using CTC.
<b>Tools/Equipment</b>	None
<b>Prerequisite Procedures</b>	"Login to CTC" in System Setup and Software Installation Guide for Cisco NCS 4000 Series
<b>Required/As Needed</b>	As needed
<b>Onsite/Remote</b>	Onsite
<b>Security Level</b>	Provisioning or higher

## Procedure

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- Step 1** In the node view, click **Maintenance > Network > LLDP**.
- Step 2** Perform one of the following:
- a) Click the **Neighbor** tab to view neighbor devices.
  - b) Click the **Neighbor Details** tab to view details of the neighbor devices.
- Step 3** Click **Refresh** to refresh all the details in the tab.
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