



Configuring LLDP, LLDP-MED, and Wired Location Service

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Restrictions for LLDP

- If the interface is configured as a tunnel port, LLDP is automatically disabled.
- If you first configure a network-policy profile on an interface, you cannot apply the **switchport voice vlan** command on the interface. If the **switchport voice vlan *vlan-id*** is already configured on an interface, you can apply a network-policy profile on the interface. This way the interface has the voice or voice-signaling VLAN network-policy profile applied on the interface.
- You cannot configure static secure MAC addresses on an interface that has a network-policy profile.
- When Cisco Discovery Protocol and LLDP are both in use within the same switch, it is necessary to disable LLDP on interfaces where Cisco Discovery Protocol is in use for power negotiation. LLDP can be disabled at interface level with the commands **no lldp tlv-select power-management** or **no lldp transmit / no lldp receive**.

Information About LLDP, LLDP-MED, and Wired Location Service

LLDP

The Cisco Discovery Protocol (CDP) is a device discovery protocol that runs over Layer 2 (the data link layer) on all Cisco-manufactured devices (routers, bridges, access servers, switches, and controllers). CDP allows

network management applications to automatically discover and learn about other Cisco devices connected to the network.

To support non-Cisco devices and to allow for interoperability between other devices, the device supports the IEEE 802.1AB Link Layer Discovery Protocol (LLDP). LLDP is a neighbor discovery protocol that is used for 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 Supported TLVs

LLDP supports a set of attributes that it uses to discover neighbor devices. These attributes contain type, length, and value descriptions and are referred to as TLVs. LLDP supported devices can use TLVs to receive and send information to their neighbors. This protocol can advertise details such as configuration information, device capabilities, and device identity.

The switch supports these basic management TLVs. These are mandatory LLDP TLVs.

- Port description TLV
- System name TLV
- System description TLV
- System capabilities TLV
- Management address TLV

These organizationally specific LLDP TLVs are also advertised to support LLDP-MED.

- Port VLAN ID TLV (IEEE 802.1 organizationally specific TLVs)
- MAC/PHY configuration/status TLV (IEEE 802.3 organizationally specific TLVs)

LLDP-MED

LLDP for Media Endpoint Devices (LLDP-MED) is an extension to LLDP that operates between endpoint devices such as IP phones and network devices. It specifically provides support for voice over IP (VoIP) applications and provides additional TLVs for capabilities discovery, network policy, Power over Ethernet, inventory management and location information. By default, all LLDP-MED TLVs are enabled.

LLDP-MED Supported TLVs

LLDP-MED supports these TLVs:

- LLDP-MED capabilities TLV

Allows LLDP-MED endpoints to determine the capabilities that the connected device supports and has enabled.

- Network policy TLV

Allows both network connectivity devices and endpoints to advertise VLAN configurations and associated Layer 2 and Layer 3 attributes for the specific application on that port. For example, the switch can notify a phone of the VLAN number that it should use. The phone can connect to any device, obtain its VLAN number, and then start communicating with the call control.

By defining a network-policy profile TLV, you can create a profile for voice and voice-signaling by specifying the values for VLAN, class of service (CoS), differentiated services code point (DSCP), and tagging mode. These profile attributes are then maintained centrally on the switch and propagated to the phone.

- Power management TLV

Enables advanced power management between LLDP-MED endpoint and network connectivity devices. Allows devices and phones to convey power information, such as how the device is powered, power priority, and how much power the device needs.

LLDP-MED also supports an extended power TLV to advertise fine-grained power requirements, end-point power priority, and end-point and network connectivity-device power status. LLDP is enabled and power is applied to a port, the power TLV determines the actual power requirement of the endpoint device so that the system power budget can be adjusted accordingly. The device processes the requests and either grants or denies power based on the current power budget. If the request is granted, the switch updates the power budget. If the request is denied, the device turns off power to the port, generates a syslog message, and updates the power budget. If LLDP-MED is disabled or if the endpoint does not support the LLDP-MED power TLV, the initial allocation value is used throughout the duration of the connection.

You can change power settings by entering the **power inline** {**auto** [**max** *max-wattage*] | **never** | **static** [**max** *max-wattage*] | **consumption** <**4000-60000**> **milliwatts**} interface configuration command. By default the PoE interface is in **auto** mode; If no value is specified, the maximum is allowed (60 W).

- Inventory management TLV

Allows an endpoint to send detailed inventory information about itself to the device, including information hardware revision, firmware version, software version, serial number, manufacturer name, model name, and asset ID TLV.

- Location TLV

Provides location information from the device to the endpoint device. The location TLV can send this information:

- Civic location information

Provides the civic address information and postal information. Examples of civic location information are street address, road name, and postal community name information.

- ELIN location information

Provides the location information of a caller. The location is determined by the Emergency location identifier number (ELIN), which is a phone number that routes an emergency call to the local public safety answering point (PSAP) and which the PSAP can use to call back the emergency caller.

- Geographic location information

Provides the geographical details of a switch location such as latitude, longitude, and altitude of a switch.

- custom location

Provides customized name and value of a switch location.

Wired Location Service

The device uses the location service feature to send location and attachment tracking information for its connected devices to a Cisco Mobility Services Engine (MSE). The tracked device can be a wireless endpoint, a wired endpoint, or a wired device or controller. The device notifies the MSE of device link up and link down events through the Network Mobility Services Protocol (NMSP) location and attachment notifications.

The MSE starts the NMSP connection to the device, which opens a server port. When the MSE connects to the device there are a set of message exchanges to establish version compatibility and service exchange information followed by location information synchronization. After connection, the device periodically sends location and attachment notifications to the MSE. Any link up or link down events detected during an interval are aggregated and sent at the end of the interval.

When the device determines the presence or absence of a device on a link-up or link-down event, it obtains the client-specific information such as the MAC address, IP address, and username. If the client is LLDP-MED- or CDP-capable, the device obtains the serial number and UDI through the LLDP-MED location TLV or CDP.

Depending on the device capabilities, the device obtains this client information at link up:

- Slot and port specified in port connection
- MAC address specified in the client MAC address
- IP address specified in port connection
- 802.1X username if applicable
- Device category is specified as a *wired station*
- State is specified as *new*
- Serial number, UDI
- Model number
- Time in seconds since the device detected the association

Depending on the device capabilities, the device obtains this client information at link down:

- Slot and port that was disconnected
- MAC address
- IP address
- 802.1X username if applicable
- Device category is specified as a *wired station*
- State is specified as *delete*
- Serial number, UDI
- Time in seconds since the device detected the disassociation

When the device shuts down, it sends an attachment notification with the state *delete* and the IP address before closing the NMSP connection to the MSE. The MSE interprets this notification as disassociation for all the wired clients associated with the device.

If you change a location address on the device, the device sends an NMSP location notification message that identifies the affected ports and the changed address information.

Default LLDP Configuration

Table 1: Default LLDP Configuration

Feature	Default Setting
LLDP global state	Disabled
LLDP holdtime (before discarding)	120 seconds
LLDP timer (packet update frequency)	30 seconds
LLDP reinitialization delay	2 seconds
LLDP tlv-select	Disabled to send and receive all TLVs
LLDP interface state	Disabled
LLDP receive	Disabled
LLDP transmit	Disabled
LLDP med-tlv-select	Disabled to send all LLDP-MED TLVs. When LLDP is glob LLDP-MED-TLV is also enabled.

How to Configure LLDP, LLDP-MED, and Wired Location Service

Enabling LLDP

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **lldp run**
4. **interface** *interface-id*
5. **lldp transmit**
6. **lldp receive**
7. **end**
8. **show lldp**
9. **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: <pre>Device> enable</pre>	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2	configure terminal Example: <pre>Device# configure terminal</pre>	Enters global configuration mode.
Step 3	lldp run Example: <pre>Device (config)# lldp run</pre>	Enables LLDP globally on the device.
Step 4	interface <i>interface-id</i> Example:	Specifies the interface on which you are enabling LLDP, and enter interface configuration mode.
Step 5	lldp transmit Example: <pre>Device(config-if)# lldp transmit</pre>	Enables the interface to send LLDP packets.
Step 6	lldp receive Example: <pre>Device(config-if)# lldp receive</pre>	Enables the interface to receive LLDP packets.
Step 7	end Example: <pre>Device(config-if)# end</pre>	Returns to privileged EXEC mode.
Step 8	show lldp Example: <pre>Device# show lldp</pre>	Verifies the configuration.
Step 9	copy running-config startup-config Example:	(Optional) Saves your entries in the configuration file.

	Command or Action	Purpose
	Device# <code>copy running-config startup-config</code>	

Configuring LLDP Characteristics

You can configure the frequency of LLDP updates, the amount of time to hold the information before discarding it, and the initialization delay time. You can also select the LLDP and LLDP-MED TLVs to send and receive.



Note Steps 3 through 6 are optional and can be performed in any order.

SUMMARY STEPS

1. `enable`
2. `configure terminal`
3. `lldp holdtime seconds`
4. `lldp reinit delay`
5. `lldp timer rate`
6. `lldp tlv-select`
7. `interface interface-id`
8. `lldp med-tlv-select`
9. `end`
10. `show lldp`
11. `copy running-config startup-config`

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Device> <code>enable</code>	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2	configure terminal Example: Device# <code>configure terminal</code>	Enters global configuration mode.
Step 3	lldp holdtime <i>seconds</i> Example: Device(config)# <code>lldp holdtime 120</code>	(Optional) Specifies the amount of time a receiving device should hold the information from your device before discarding it. The range is 0 to 65535 seconds; the default is 120 seconds.

	Command or Action	Purpose
Step 4	lldp reinit <i>delay</i> Example: <pre>Device(config)# lldp reinit 2</pre>	(Optional) Specifies the delay time in seconds for LLDP to initialize on an interface. The range is 2 to 5 seconds; the default is 2 seconds.
Step 5	lldp timer <i>rate</i> Example: <pre>Device(config)# lldp timer 30</pre>	(Optional) Sets the sending frequency of LLDP updates in seconds. The range is 5 to 65534 seconds; the default is 30 seconds.
Step 6	lldp tlv-select Example: <pre>Device(config)# tlv-select</pre>	(Optional) Specifies the LLDP TLVs to send or receive.
Step 7	interface <i>interface-id</i> Example:	Specifies the interface on which you are enabling LLDP, and enter interface configuration mode.
Step 8	lldp med-tlv-select Example: <pre>Device (config-if)# lldp med-tlv-select inventory management</pre>	(Optional) Specifies the LLDP-MED TLVs to send or receive.
Step 9	end Example: <pre>Device (config-if)# end</pre>	Returns to privileged EXEC mode.
Step 10	show lldp Example: <pre>Device# show lldp</pre>	Verifies the configuration.
Step 11	copy running-config startup-config Example: <pre>Device# copy running-config startup-config</pre>	(Optional) Saves your entries in the configuration file.

Configuring LLDP-MED TLVs

By default, the device only sends LLDP packets until it receives LLDP-MED packets from the end device. It then sends LLDP packets with MED TLVs, as well. When the LLDP-MED entry has been aged out, it again only sends LLDP packets.

By using the **lldp** interface configuration command, you can configure the interface not to send the TLVs listed in the following table.

Table 2: LLDP-MED TLVs

LLDP-MED TLV	Description
inventory-management	LLDP-MED inventory management TLV
location	LLDP-MED location TLV
network-policy	LLDP-MED network policy TLV
power-management	LLDP-MED power management TLV

Follow these steps to enable a TLV on an interface:

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **interface** *interface-id*
4. **lldp med-tlv-select**
5. **end**
6. **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Device> enable	Enables privileged EXEC mode. <ul style="list-style-type: none">• Enter your password if prompted.
Step 2	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 3	interface <i>interface-id</i> Example:	Specifies the interface on which you are enabling LLDP, and enter interface configuration mode.

	Command or Action	Purpose
Step 4	lldp med-tlv-select Example: <pre>Device(config-if)# lldp med-tlv-select inventory management</pre>	Specifies the TLV to enable.
Step 5	end Example: <pre>Device(config-if)# end</pre>	Returns to privileged EXEC mode.
Step 6	copy running-config startup-config Example: <pre>Device# copy running-config startup-config</pre>	(Optional) Saves your entries in the configuration file.

Configuring Network-Policy TLV

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **network-policy profile** *profile number*
4. **{voice | voice-signaling} vlan** [*vlan-id* {**cos** *cvalue* | **dscp** *dvalue*}] | [[**dot1p** {**cos** *cvalue* | **dscp** *dvalue*}] | **none** | **untagged**]
5. **exit**
6. **interface** *interface-id*
7. **network-policy** *profile number*
8. **lldp med-tlv-select network-policy**
9. **end**
10. **show network-policy profile**
11. **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: <pre>Device> enable</pre>	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.

	Command or Action	Purpose
Step 2	configure terminal Example: <pre>Device# configure terminal</pre>	Enters global configuration mode.
Step 3	network-policy profile <i>profile number</i> Example: <pre>Device(config)# network-policy profile 1</pre>	Specifies the network-policy profile number, and enter network-policy configuration mode. The range is 1 to 4294967295.
Step 4	{voice voice-signaling} vlan [<i>vlan-id</i> { <i>cos cvalue</i> dscp dvalue }] [[dot1p { <i>cos cvalue</i> dscp dvalue }] none untagged] Example: <pre>Device(config-network-policy)# voice vlan 100 cos 4</pre>	Configures the policy attributes: <ul style="list-style-type: none"> • voice—Specifies the voice application type. • voice-signaling—Specifies the voice-signaling application type. • vlan—Specifies the native VLAN for voice traffic. • <i>vlan-id</i>—(Optional) Specifies the VLAN for voice traffic. The range is 1 to 4094. • <i>cos cvalue</i>—(Optional) Specifies the Layer 2 priority class of service (CoS) for the configured VLAN. The range is 0 to 7; the default is 5. • dscp dvalue—(Optional) Specifies the differentiated services code point (DSCP) value for the configured VLAN. The range is 0 to 63; the default is 46. • dot1p—(Optional) Configures the telephone to use IEEE 802.1p priority tagging and use VLAN 0 (the native VLAN). • none—(Optional) Do not instruct the IP telephone about the voice VLAN. The telephone uses the configuration from the telephone key pad. • untagged—(Optional) Configures the telephone to send untagged voice traffic. This is the default for the telephone.
Step 5	exit Example: <pre>Device(config)# exit</pre>	Returns to global configuration mode.

	Command or Action	Purpose
Step 6	interface <i>interface-id</i> Example:	Specifies the interface on which you are configuring a network-policy profile, and enter interface configuration mode.
Step 7	network-policy <i>profile number</i> Example: Device(config-if)# network-policy 1	Specifies the network-policy profile number.
Step 8	lldp med-tlv-select network-policy Example: Device(config-if)# lldp med-tlv-select network-policy	Specifies the network-policy TLV.
Step 9	end Example: Device(config)# end	Returns to privileged EXEC mode.
Step 10	show network-policy profile Example: Device# show network-policy profile	Verifies the configuration.
Step 11	copy running-config startup-config Example: Device# copy running-config startup-config	(Optional) Saves your entries in the configuration file.

Configuring Location TLV and Wired Location Service

Beginning in privileged EXEC mode, follow these steps to configure location information for an endpoint and to apply it to an interface.

SUMMARY STEPS

1. **configure terminal**
2. **location** {**admin-tag** *string* | **civic-location identifier** {*id* | **host**} | **elin-location** *string identifier id* | **custom-location identifier** {*id* | **host**} | **geo-location identifier** {*id* | **host**}}
3. **exit**
4. **interface** *interface-id*

5. **location** {**additional-location-information** *word* | **civic-location-id** {*id* | **host**} | **elin-location-id** *id* | **custom-location-id** {*id* | **host**} | **geo-location-id** {*id* | **host**} }
6. **end**
7. Use one of the following:
 - **show location admin-tag** *string*
 - **show location civic-location identifier** *id*
 - **show location elin-location identifier** *id*
8. **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure terminal Example: <pre>Device# configure terminal</pre>	Enters global configuration mode.
Step 2	location { admin-tag <i>string</i> civic-location identifier { <i>id</i> host } elin-location <i>string identifier id</i> custom-location identifier { <i>id</i> host } geo-location identifier { <i>id</i> host }} Example: <pre>Device(config)# location civic-location identifier 1 Device(config-civic)# number 3550 Device(config-civic)# primary-road-name "Cisco Way" Device(config-civic)# city "San Jose" Device(config-civic)# state CA Device(config-civic)# building 19 Device(config-civic)# room C6 Device(config-civic)# county "Santa Clara" Device(config-civic)# country US</pre>	Specifies the location information for an endpoint. <ul style="list-style-type: none"> • admin-tag—Specifies an administrative tag or site information. • civic-location—Specifies civic location information. • elin-location—Specifies emergency location information (ELIN). • custom-location—Specifies custom location information. • geo-location—Specifies geo-spatial location information. • identifier <i>id</i>—Specifies the ID for the civic, ELIN, custom, or geo location. • host—Specifies the host civic, custom, or geo location. • <i>string</i>—Specifies the site or location information in alphanumeric format.
Step 3	exit Example: <pre>Device(config-civic)# exit</pre>	Returns to global configuration mode.
Step 4	interface <i>interface-id</i> Example:	Specifies the interface on which you are configuring the location information, and enter interface configuration mode.

	Command or Action	Purpose
Step 5	<p>location {additional-location-information <i>word</i> civic-location-id {<i>id</i> host} elin-location-id <i>id</i> custom-location-id {<i>id</i> host} geo-location-id {<i>id</i> host} }</p> <p>Example:</p> <pre>Device(config-if)# location elin-location-id 1</pre>	<p>Enters location information for an interface:</p> <ul style="list-style-type: none"> • additional-location-information—Specifies additional information for a location or place. • civic-location-id—Specifies global civic location information for an interface. • elin-location-id—Specifies emergency location information for an interface. • custom-location-id—Specifies custom location information for an interface. • geo-location-id—Specifies geo-spatial location information for an interface. • host—Specifies the host location identifier. • <i>word</i>—Specifies a word or phrase with additional location information. • <i>id</i>—Specifies the ID for the civic, ELIN, custom, or geo location. The ID range is 1 to 4095.
Step 6	<p>end</p> <p>Example:</p> <pre>Device(config-if)# end</pre>	Returns to privileged EXEC mode.
Step 7	<p>Use one of the following:</p> <ul style="list-style-type: none"> • show location admin-tag <i>string</i> • show location civic-location identifier <i>id</i> • show location elin-location identifier <i>id</i> <p>Example:</p> <pre>Device# show location admin-tag</pre> <p>or</p> <pre>Device# show location civic-location identifier</pre> <p>or</p> <pre>Device# show location elin-location identifier</pre>	Verifies the configuration.

	Command or Action	Purpose
Step 8	copy running-config startup-config Example: <pre>Device# copy running-config startup-config</pre>	(Optional) Saves your entries in the configuration file.

Enabling Wired Location Service on the Device

Before you begin

For wired location to function, you must first enter the **ip device tracking** global configuration command.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **nmosp notification interval {attachment | location} interval-seconds**
4. **end**
5. **show network-policy profile**
6. **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: <pre>Device> enable</pre>	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2	configure terminal Example: <pre>Device# configure terminal</pre>	Enters global configuration mode.
Step 3	nmosp notification interval {attachment location} interval-seconds Example: <pre>Device(config)# nmosp notification interval location 10</pre>	Specifies the NMSP notification interval. attachment —Specifies the attachment notification interval. location —Specifies the location notification interval. <i>interval-seconds</i> —Duration in seconds before the device sends the MSE the location or attachment updates. The range is 1 to 30; the default is 30.

	Command or Action	Purpose
Step 4	end Example: <pre>Device(config)# end</pre>	Returns to privileged EXEC mode.
Step 5	show network-policy profile Example: <pre>Device# show network-policy profile</pre>	Verifies the configuration.
Step 6	copy running-config startup-config Example: <pre>Device# copy running-config startup-config</pre>	(Optional) Saves your entries in the configuration file.

Configuration Examples for LLDP, LLDP-MED, and Wired Location Service

Configuring Network-Policy TLV: Examples

This example shows how to configure VLAN 100 for voice application with CoS and to enable the network-policy profile and network-policy TLV on an interface:

```
# configure terminal
(config)# network-policy 1
(config-network-policy)# voice vlan 100 cos 4
(config-network-policy)# exit
(config)# interface gigabitethernet1/0/1
(config-if)# network-policy profile 1
(config-if)# lldp med-tlv-select network-policy
```

This example shows how to configure the voice application type for the native VLAN with priority tagging:

```
config-network-policy)# voice vlan dot1p cos 4
config-network-policy)# voice vlan dot1p dscp 34
```


Monitoring and Maintaining LLDP, LLDP-MED, and Wired Location Service

Commands for monitoring and maintaining LLDP, LLDP-MED, and wired location service.

Command	Description
clear lldp counters	Resets the traffic counters to zero.
clear lldp table	Deletes the LLDP neighbor information table.
clear nmosp statistics	Clears the NMSP statistic counters.
show lldp	Displays global information, such as frequency of transmissions, the holdtime for packets being sent, and the delay time before LLDP initializes on an interface.
show lldp entry <i>entry-name</i>	Displays information about a specific neighbor. You can enter an asterisk (*) to display all neighbors, or you can enter the neighbor name.
show lldp interface [<i>interface-id</i>]	Displays information about interfaces with LLDP enabled. You can limit the display to a specific interface.
show lldp neighbors [<i>interface-id</i>] [detail]	Displays information about neighbors, including device type, interface type and number, holdtime settings, capabilities, and port ID. You can limit the display to neighbors of a specific interface or expand the display for more detailed information.
show lldp traffic	Displays LLDP counters, including the number of packets sent and received, number of packets discarded, and number of unrecognized TLVs.
show location admin-tag <i>string</i>	Displays the location information for the specified administrative tag or site.
show location civic-location identifier <i>id</i>	Displays the location information for a specific global civic location.
show location elin-location identifier <i>id</i>	Displays the location information for an emergency location
show network-policy profile	Displays the configured network-policy profiles.
show nmosp	Displays the NMSP information

Additional References for LLDP, LLDP-MED, and Wired Location Service

MIBs

MIB	MIBs Link
All the supported MIBs for this release.	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

Technical Assistance

Description	Link
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	http://www.cisco.com/support

Feature History for LLDP, LLDP-MED, and Wired Location Service

This table provides release and related information for features explained in this module.

These features are available on all releases subsequent to the one they were introduced in, unless noted otherwise.

Release	Feature	Feature Information
Cisco IOS XE Everest 16.6.1	Link Layer Discovery Protocol (LLDP), LLDP-MED, Wired Location Service	<p>LLDP is a neighbor discovery protocol that is used for 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.</p> <p>LLDP-MED operates between endpoints and network devices.</p> <p>Wired Location Service lets you send tracking information of the connected devices to a Cisco Mobility Services Engine (MSE).</p>

Use Cisco Feature Navigator to find information about platform and software image support. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>.

