

# LLDP MED Configuration

In LLDP-MED protocol, it provides extra Organizationally Specific TLVs. The TLVs lists that Pica8 switch support are as follows :

M Mandatory for this TLV to be included in all outgoing LLDP-MED LLDPDUs,

C Conditionally required, mandatory for this TLV to be included in outgoing LLDP-MED LLDPDUs under the described conditions,

LLDP-MED TLV Subtype	TLV Name	LLDPDU Usage
1	LLDP-MED Capabilities	M
2	Network Policy	C1
3	Location Identification	C1
4	Extended Power-via-MDI	C2

Note 1: Transmission of these mandatory TLVs only applies if the associated TLV data contents have been administratively configured and apply on a given port.

Note 2: Extended Power-via-MDI TLV is mandatory for IEEE 802.3af compliant PSE Network Connectivity Devices. This TLV is not applicable for non-PoE capable ports, and should not be included in outgoing LLDP-MED LLDPDUs on such ports.

## Basic Configuration:

Enable LLDP

```
set protocols lldp enable true
```

Configure lldp med tlvs

- basically these tlvs are selected by default:

```
set protocols lldp med-tlv-select inventory-management true/false
set protocols lldp med-tlv-select network-policy true/false
set protocols lldp med-tlv-select extended-power-via-mdi true/false
```

- Configure the lldp med fast start repeat count:
- The LLDP-MED fast start repeat count specifies the number of LLDP packets that will be sent during the LLDP-MED fast start period.

```
set protocols lldp med-fast-start-repeat-count 5
```

The LLDP MED function will only be active by receiving lldp med packets.

Show the med working status:

```
admin@XorPlus# run show lldp detail
LLDP: Enable
Advertisement interval: 30
Re-initialization Delay: 2
Transmit Delay: 2
Hold timer: 120
LLDP-MED fast start repeat count: 5
Selected TLVs:
  port_description
  system_name
  system_description
  system_capabilities
  management_address
  port_vlan_id
  mac_phy
Selected MED TLVs:
  inventory management
  network_policy
  extended_power_via_mdi
```

Show the med information of neighbor device:

```
admin@XorPlus# run show lldp neighbor ge-1/1/1 detail
Local Port: ge-1/1/1
LLDP info:
  Time To Live: 180
  Chassis Id: 192.1.1.1
  Port ID: 189C5DB7E4F4:P1
  Port Description: SW PORT
  System Name: SEP189C5DB7E4F4
  System Description: Cisco IP Phone 7965G,V14,
  System Capability: Bridge, Telephone
  Management Address:
  Default VLAN ID: 0
  Auto Negotiation: Supported, Enabled
  Physical media capabilities: FDX_S_Pause, FDX_B_Pause, 1000base_XFD, 1000base_T
  Media Attachment Unit type: 1000base_T_Full_Duplex
  +Med capabilities: Capabilities, Network Policy, Extended Power via MDI-PD, Inventory
  Med device type: Endpoint Class III
  +MED Network Policy
  Application Type: Voice
  Policy Flags: Known Policy
  Vlan ID: 4095
  L2 Priority: 5
  DSCP Value: 46
  +MED Network Policy
  Application Type: Voice Signaling
  Policy Flags: Known Policy
  Vlan ID: 4095
  L2 Priority: 0
  DSCP Value: 0
  +MED Extended Power via MDI
  Power Type: PD device
  Power Source: Unknown
  Power Priority: Unknown
  Power Value: 12.0 watts
  +MED Hardware revision: 14
  +MED Firmware revision: tnp65.9-3-1-CR17.bin
  +MED Software revision:
  +MED Serial number: FCH174499U2
  +MED Manufacturer: Cisco Systems, Inc.
  +MED Model name: CP-7965G
  +MED Asset ID:
```

Show the med information of local device:

```
admin@XorPlus# run show lldp local_info ge-1/1/1 detail
LLDP Local configuration details
Chassis ID: 70:72:cf:fd:8f:21
System name: XorPlus
System description: PICA8 Inc., Model as4610_30p, PicOS 2.9.1
Interface LLDP State
-----
ge-1/1/1 Enable tx_rx

+Med capabilities: Capabilities, Network Policy, Extended Power via MDI-PD, Inventory
Med device type: Network Connectivity
+MED Network Policy
Application Type: Voice
Policy Flags: Unknown Policy
Vlan ID: 0
L2 Priority: 6
DSCP Value: 46
+MED Network Policy
Application Type: Voice Signaling
Policy Flags: Unknown Policy
Vlan ID: 0
L2 Priority: 0
DSCP Value: 0
+MED Extended Power via MDI
Power Type: PSE device
Power Source: Primary Power Source
Power Priority: Unknown
Power Value: 0.0 watts
+MED Hardware revision: N/A
+MED Firmware revision: 2.9.1/ac36038
+MED Software revision: 2.9.1/ac36038
+MED Serial number: AF10029779
+MED Manufacturer: Edgcore
+MED Model name: as4610_30p
+MED Asset ID: N/A
```