

# LLDP Configuration (Link Layer Discovery Protocol)

LLDP is a standard link-layer discovery protocol which can broadcast its capability, IP address, ID, and interface name as TLVs (Type/Length/Value) in LLDP PDUs (Link Layer Discovery Protocol Data Units).

An LLDP PDU includes 4 basic TLVs and several optional TLVs.

Basic TLVs include the Chassis ID, Port ID, TTL and End TLVs.

**In L2/L3, you can select the following optional TLVs:**

TLV Name	Description
mac-phy-cfg	MAC address of the system
management-address	Management IP address of the system
port-description	The port description of system
port-vlan	The VLAN ID of the port
system-capabilities	System capability (e.g. switching, routing)
system-description	System description
system-name	System name

## Configuring the LLDP Mode

LLDP supports 4 modes: TxRx, Tx\_only, Rx\_only, and Disabled. By default, LLDP is disabled.

In TxRx mode, the system transmits *and* receives LLDPDUs. In Tx\_only, the system only transmits LLDPDUs. In Rx\_only, the system only receives LLDPDUs. In Disabled, the system will not transmit or receive any LLDPDUs.

After enabling LLDP, each interface will be in tx\_rx mode by default.

You can configure the system as shown below:

```
admin@XorPlus# set protocols lldp enable true
admin@XorPlus# set protocols lldp interface te-1/1/1 working-mode tx_rx
admin@XorPlus# commit
Waiting for merging configuration.
Commit OK.
Save done.
admin@XorPlus#
```

## Selecting Optional TLVs

```
admin@XorPlus# set protocols lldp tlv-select mac-phy-cfg true
admin@XorPlus# set protocols lldp tlv-select management-address true
admin@XorPlus# set protocols lldp tlv-select port-description true
admin@XorPlus# set protocols lldp tlv-select system-capabilities true
admin@XorPlus# commit
Waiting for merging configuration.
Commit OK.
Save done.
admin@XorPlus#
```

## Displaying LLDP Information

```
admin@XorPlus# show protocols lldp
Waiting for building configuration.
enable: true
tlv-select {
}
```

## Configuring Other Parameters

You can configure other parameters, such as advertisement-interval, hold-time-multiplier, reinit-delay, and transmit-delay, in a similar manner.