Chapter 18

LLDP

This chapter describes initial configuration and recovery tasks. Refer to the Command Descriptions for information about commands used in this chapter.

This chapter contains these sections:

- Section 18.1: LLDP Introduction
- Section 18.2: LLDP Overview
- Section 18.3: LLDP Configuration Procedures
- Section 18.4: LLDP Configuration Commands

18.1 LLDP Introduction

Link Layer Discovery Protocol (LLDP) lets Ethernet network devices to advertise details about themselves, such as capabilities, identification, and device configurations to directly connected devices on the network that are also using LLDP.

18.2 LLDP Overview

LLDP is a discovery protocol that allows devices to advertise information about themselves to peer devices that are on the same physical LAN and store information about the network. LLDP allows a device to learn higher layer management reachability and connection endpoint information from adjacent devices.

Each switch with an active LLDP agent sends and receives messages on all physical interfaces enabled for LLDP transmission. These messages are sent periodically and are typically configured for short time intervals to ensure that accurate information is always available. These messages are then stored for a configurable period of time, and contained within the received packet. The message information expires and is discarded when the configured value is met. The only other time an advertisement is sent is when a relevant change takes place in the switch. If information changes for any reason, the LLDP agent is notified and will send out and update the new values.
18.2.1 LLDP Data Units

A single LLDP Data Unit (LLDPDU) is transmitted in a single 802.3 Ethernet frame. The basic LLDPDU includes a header and a series of type-length-value elements (TLVs). Each TLV advertises different types of information, such as its device ID, type, or management addresses.

LLDP advertises the following TLVs by default:

- port-description
- system-capabilities
- system-description
- system-name
- management-address
- port-vlan

18.2.2 Transmission and Reception

Every device that uses LLDP has its own LLDP agent. The LLDP agent is responsible for the reception, transmission, and management of LLDP. When LLDP is enabled on a port, transmission and reception of LLDPDUs are both enabled by default, but the agent can be configured to only transmit or only receive.

Transmission

When LLDP transmission is enabled, the LLDP agent advertises information about the switch to neighbors at regular intervals. Each transmitted LLDPDU contains the mandatory TLVs, and any enabled optional TLVs.

Reception

When LLDP reception is enabled, the LLDP agent receives and stores advertised information from neighboring devices.

18.2.3 Storing LLDP Information

Whenever the switch receives a valid and current LLDP advertisement from a neighbor, it stores the information in a Simple Network Management Protocol (SNMP) management information base (MIB).

18.2.4 Guidelines and Limitations

LLDP has the following configuration limitations:

- LLDP must be enabled globally before it can be enabled on an interface.
- LLDP is not supported on virtual interfaces.
- LLDP can discover only one device per port.
18.3 LLDP Configuration Procedures

These sections describe the following configuration processes:

- Section 18.3.1: Enabling LLDP Globally
- Section 18.3.2: Enabling LLDP on an Interface
- Section 18.3.3: Optional LLDP Parameters
- Section 18.3.4: Clearing LLDP Statistics
- Section 18.3.5: Displaying LLDP Information

18.3.1 Enabling LLDP Globally

The `lldp run` command globally enables LLDP on the Arista switch. Once LLDP is enabled, the switch will transmit advertisements from the ports that are configured to send TLVs. The neighbor information table is populated as advertisements from the neighbors arrive on the ports.

**Example**

- This command enables LLDP globally on the Arista switch.
  
  ```
  switch(config)# lldp run
  switch(config)#
  ```

18.3.2 Enabling LLDP on an Interface

When enabling LLDP, it is enabled on all interfaces by default. By using the `lldp transmit` and `lldp receive` commands, LLDP can be enabled or disabled on individual interfaces or configured to only send or only receive LLDP packets.

**Examples**

- These commands enable Ethernet port 3/1 to transmit LLDP packets.
  
  ```
  switch(config)# interface ethernet 3/1
  switch(config-if-Et3/1)# lldp transmit
  switch(config-if-Et3/1)#
  ```

- These commands enable Ethernet port 3/1 to receive LLDP packets.
  
  ```
  switch(config)# interface ethernet 3/1
  switch(config-if-Et3/1)# lldp receive
  switch(config-if-Et3/1)#
  ```

18.3.3 Optional LLDP Parameters

The following sections describe these tasks:

- Section 18.3.3.1: Setting the LLDP Timer
- Section 18.3.3.2: Setting the LLDP Hold Time
- Section 18.3.3.3: Setting the LLDP Re-initialization Timer
- Section 18.3.3.4: Setting the IP Management Address to be used in the TLV
- Section 18.3.3.5: Selecting the LLDP TLVs

18.3.3.1 Setting the LLDP Timer

The `lldp timer` command specifies the time in seconds between LLDP updates sent by the switch.
Examples

- This command specifies that the LLDP updates should be sent every 120 seconds.
  
  ```
  switch(config)# lldp timer 120
  switch(config)#
  ```

- This command reverts the LLDP timer to its default value of 30 seconds.
  
  ```
  switch(config)# no lldp timer 120
  switch(config)#
  ```

18.3.3.2 Setting the LLDP Hold Time

The `lldp hold-time` command sets the amount of time a receiving device should retain the information sent by the device.

Examples

- This command specifies that the receiving device should retain the information for 180 seconds before discarding it.
  
  ```
  switch(config)# lldp hold-time 180
  switch(config)#
  ```

- This command reverts the LLDP hold time and to the default value of 120 seconds.
  
  ```
  switch(config)# no lldp hold-time 180
  switch(config)#
  ```

18.3.3.3 Setting the LLDP Re-initialization Timer

The `lldp timer reinitialization` command specifies the amount in time in seconds to delay the re-initialization attempt by the switch.

Example

- This command specifies that the switch waits 10 seconds before attempting to re-initialize.
  
  ```
  switch(config)# lldp timer reinitialization 10
  switch(config)#
  ```

18.3.3.4 Setting the IP Management Address to be used in the TLV

The `lldp management-address` command specifies the IP management address or the IP address of the VRF interface in LLDP type-length-value (TLV) triplets.

Example

- This command specifies the IP management address to be used in the TLV.
  
  ```
  switch(config)# lldp management-address ethernet 3/1
  switch(config)#
  ```

18.3.3.5 Selecting the LLDP TLVs

The `lldp tlv transmit` command specifies which type, length, and value elements (TLVs) are to be included in LLDP packets. The `no lldp tlv transmit` command removes the TLV configuration.

Example

- This command enables the system descriptions to be included in the TLVs.
  
  ```
  switch(config)# lldp tlv transmit system-description
  switch(config)#
  ```
Chapter 18: LLDP

18.3.4 Clearing LLDP Statistics

- Section 18.3.4.1: Clear LLDP Counters
- Section 18.3.4.2: Clear LLDP Table

18.3.4.1 Clear LLDP Counters

The `clear lldp counters` command resets the LLDP traffic counters to zero.

Example

- This command resets the traffic counters to zero.
  
  ```
  switch# clear lldp counters
  switch#
  ```

18.3.4.2 Clear LLDP Table

The `clear lldp table` command clears neighbor information from the LLDP table.

Example

- This command clears neighbor information from the LLDP table.
  
  ```
  switch# clear lldp table
  switch#
  ```

18.3.5 Displaying LLDP Information

- Section 18.3.5.1: Viewing LLDP Global Information
- Section 18.3.5.2: Viewing LLDP Local Information
- Section 18.3.5.3: Viewing LLDP Neighbors
- Section 18.3.5.4: Viewing LLDP Traffic

18.3.5.1 Viewing LLDP Global Information

The `show lldp` command displays LLDP information.
Examples

- This command displays global information about LLDP.

```
switch# show lldp
LLDP transmit interval : 60 seconds
LLDP transmit holdtime : 120 seconds
LLDP reinitialization delay : 2 seconds
LLDP Management Address VRF : default

Enabled optional TLVs:
  Port Description
  System Name
  System Description
  System Capabilities
  Management Address (Management0)
  IEEE802.1 Port VLAN ID
  IEEE802.3 Link Aggregation
  IEEE802.3 Maximum Frame Size

  Port       Tx Enabled  Rx Enabled
  Et3/1      Yes         Yes

<-------OUTPUT OMITTED FROM EXAMPLE-------->
```

- This command displays LLDP information.

```
switch# show lldp ethernet interface 3/1
LLDP transmit interval : 30 seconds
LLDP transmit holdtime : 120 seconds
LLDP reinitialization delay : 2 seconds
LLDP Management Address VRF : default

Enabled optional TLVs:
  Port Description
  System Name
  System Description
  System Capabilities

switch#
```

18.3.5.2 Viewing LLDP Local Information

The `show lldp local-info` command displays the information contained in the LLDP TLVs to be sent about the local system.
Example

- This command displays information contained in the TLVS about the local systems.

```bash
switch# show lldp local-info management 1
Local System:
- Chassis ID type: MAC address (4)
  Chassis ID : 001c.730f.11a8
- System Name: "switch.aristanetworks.com"
- System Description: "Arista Networks EOS version 4.13.2F running on an Arista Networks DCS-7150S-64-CL"
- System Capabilities : Bridge, Router
  Enabled Capabilities: Bridge

Interface Management1:
- Port ID type: Interface name (5)
  Port ID : "Management1"
- Port Description: ""
- Management Address Subtype: IPv4 (1)
  Management Address : 172.22.30.154
  Interface Number Subtype : ifIndex (2)
  Interface Number : 999001
  OID String : 
- IEEE802.1 Port VLAN ID: 0
- IEEE802.1/IEEE802.3 Link Aggregation
  Link Aggregation Status: Not Capable (0x00)
  Port ID : 0
- IEEE802.3 Maximum Frame Size: 1518 bytes
```

18.3.5.3 Viewing LLDP Neighbors

The `show lldp neighbors` command displays information about LLDP neighbors.

Example

- This command shows information about LLDP neighbors.

```bash
switch# show lldp neighbor
Last table change time : 0:12:33 ago
Number of table inserts : 33
Number of table deletes : 0
Number of table drops : 0
Number of table age-outs : 0

Port  Neighbor Device ID              Neighbor Port ID          TTL
Et3/1  tg104.sjc.aristanetworks.com    Ethernet3/2               120
Ma1/1  dcl-rack11-tor1.sjc           1/1                           120
```
Example

- This command displays detailed information about the neighbor Ethernet 3/1.

```
switch# show lldp neighbor ethernet 3/1
Last table change time : 0:16:24 ago
Number of table inserts : 33
Number of table deletes  : 0
Number of table drops   : 0
Number of table age-outs: 0
```

<table>
<thead>
<tr>
<th>Port</th>
<th>Neighbor Device ID</th>
<th>Neighbor Port ID</th>
<th>TTL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Et3/1</td>
<td>tg104.sjc.aristanetworks.com</td>
<td>Ethernet3/2</td>
<td>120</td>
</tr>
</tbody>
</table>

switch#

18.3.5.4 Viewing LLDP Traffic

The `show lldp counters` command displays the LLDP traffic information for the switch.

Example

- This command displays the LLDP counters on the switch.

```
switch# show lldp counters
```

<table>
<thead>
<tr>
<th>Port</th>
<th>Tx Frames</th>
<th>Tx Length Exceeded</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Et20</td>
<td>69485</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Et21</td>
<td>69394</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Et22</td>
<td>69203</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Et23</td>
<td>57546</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Et24</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Ma1</td>
<td>69665</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Port</th>
<th>Rx Frames</th>
<th>Rx Errors</th>
<th>Rx Discard</th>
<th>TLVs Discard</th>
<th>TLVs Unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Et20</td>
<td>69470</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Et21</td>
<td>69383</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Et22</td>
<td>69143</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Et23</td>
<td>55370</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Et24</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Ma1</td>
<td>69078</td>
<td>69078</td>
<td>0</td>
<td>69078</td>
<td>0</td>
</tr>
</tbody>
</table>

switch#
18.4 LLDP Configuration Commands

Global Configuration Commands
- `lldp hold-time`
- `lldp management-address`
- `lldp management-address vrf`
- `lldp timer reinitialization`
- `lldp run`
- `lldp timer`
- `lldp tlv transmit`

Interface Configuration Commands – Ethernet Interface
- `lldp receive`
- `lldp transmit`

Privileged EXEC Commands
- `clear lldp counters`
- `clear lldp table`

EXEC Commands
- `show lldp`
- `show lldp counters`
- `show lldp local-info`
- `show lldp neighbors`
clear lldp counters

The clear lldp counters command resets the LLDP counters to zero.

Command Mode

Privileged EXEC

Command Syntax

clear lldp counters [SCOPE]

Parameters

- **SCOPE**  Session affected by command. Options include:
  - <no parameter> command affects counters on all CLI sessions.
  - session clears LLDP counters for the current CLI session only.

Examples

- This command resets all the LLDP counters to zero.
  switch(config)# clear lldp counters
  switch(config)#

- This command resets only the LLDP counters for the current CLI session.
  switch(config)# clear lldp counters session
  switch(config)#
clear lldp table

The clear lldp table command clears neighbor information from the LLDP table.

Command Mode
Privileged EXEC

Command Syntax
    clear lldp table

Example
• This command clears neighbor information from the LLDP table.
    switch(config)# clear lldp table
    switch(config)#
lldp hold-time

The **lldp hold-time** command specifies the amount of time a receiving device should maintain the information sent by the device before discarding it.

**Command Mode**

Global Configuration

**Command Syntax**

```
  lldp hold-time period
  no lldp hold-time
  default lldp hold-time
```

**Parameters**

- **period**  The amount of time a receiving device should hold LLDPDU information before discarding it. Value ranges from 10 to 65535 second; default value is 120 seconds.

**Examples**

- This command sets the amount of time before the receiving device discards LLDPDU information to 180 seconds.
  ```
  switch(config)# lldp hold-time 180
  switch(config)#
  ```

- This command restores the hold-time to its default value of 120 seconds.
  ```
  switch(config)# no lldp hold-time 180
  switch(config)#
  ```
lldp management-address

The `lldp management-address` command enables the user to add the IP management address used for LLDP type-length-value (TLV).

**Command Mode**

Global Configuration

**Command Syntax**

```
lldp management-address INTERFACE
no lldp management-address [INTERFACE]
default lldp management-address [INTERFACE]
```

**Parameters**

- `INTERFACE` Interface type and number. Options include:
  - `all` all interfaces.
  - `ethernet e_num` Ethernet interface specified by `e_num`.
  - `loopback l_num` Loopback interface specified by `l_num`.
  - `management m_num` Management interface specified by `m_num`.
  - `port-channel p_num` Port-Channel Interface specified by `p_num`.
  - `vlan v_num` VLAN interface specified by `v_num`.

**Examples**

- This command specifies the IP management address to be used in the TLV.
  ```
  switch(config)# lldp management-address ethernet 3/1
  switch(config)#
  ```

- This command removes the IP management address used in the TLV.
  ```
  switch(config)# no lldp management-address ethernet 3/1
  switch(config)#
  ```

- This command specifies that VLAN 200 is used in the TLV.
  ```
  switch(config)# lldp management-address vlan 200
  switch(config)#
  ```

- This command removes the VLAN ID used in the TLV.
  ```
  switch(config)# no lldp management-address vlan 200
  switch(config)#
  ```
**lldp management-address vrf**

The `lldp management-address vrf` command enables the user to add the IP address of the VRF interface used in LLDP type-length-value (TLV).

**Command Mode**

Global Configuration

**Command Syntax**

```
lldp management-address vrf VRF_INSTANCE
no lldp management-address vrf VRF_INSTANCE
default lldp management-address vrf VRF_INSTANCE
```

**Parameters**

- `VRF_INSTANCE` specifies the VRF instance.

**Examples**

- This command specifies the management address VRF to be used in the TLV.
  
```
switch(config)# lldp management-address vrf test 1
switch(config)#
```

- This command removes the management VRF used in the TLV.
  
```
switch(config)# no lldp management-address vrf test 1
switch(config)#
```
lldp receive

The `lldp receive` command enables LLDP packets on an interface. The `no lldp receive` command disables the acceptance of LLDP packets.

**Command Mode**
- Interface-Ethernet configuration
- Interface-Management configuration

**Command Syntax**
```
  lldp receive
  no lldp receive
  default lldp receive
```

**Examples**
- These commands enable the reception of LLDP packets on Ethernet interface 4/1.
  ```
  switch(config)#interface ethernet 4/1
  switch(config-if-Et4/1)#lldp receive
  switch(config-if-Et4/1)#
  ```
- These commands disable LLDP the reception of LLDP packets on Ethernet interface 4/1.
  ```
  switch(config)#interface ethernet 4/1
  switch(config-if-Et4/1)# no lldp receive
  switch(config-if-Et4/1)#
  ```
**lldp timer reinitialization**

The **lldp timer reinitialization** command sets the time delay in seconds for LLDP to initialize.

**Command Mode**
- Global Configuration

**Command Syntax**

```
    lldp timer reinitialization delay
    no lldp timer reinitialization
    default lldp timer reinitialization
```

**Parameters**
- **`delay`** the amount of time the device should wait before re-initialization is attempted. Value ranges from 1 to 20 seconds; default value is 2 seconds.

**Examples**
- This command specifies that the switch should wait 10 seconds before attempting to re-initialize.
  ```
  switch(config)# lldp timer reinitialization 10
  switch(config)#
  ```
- This command restores the default initialization delay of 2 seconds.
  ```
  switch(config)# no lldp timer reinitialization 10
  switch(config)#
  ```
**lldp run**

The *lldp run* command enables LLDP on the Arista switch.

**Command Mode**

Global Configuration

**Command Syntax**

```
  lldp run
  no lldp run
  default lldp run
```

**Examples**

- This command enables LLDP globally on the Arista switch.
  
  ```
  switch(config)# lldp run
  switch(config)#
  ```

- This command disables LLDP globally on the Arista switch.
  
  ```
  switch(config)# no lldp run
  switch(config)#
  ```
**lldp timer**

The `lldp timer` command specifies the amount of time a receiving device should maintain the information sent by the device before discarding it. The `no lldp timer` command removes the configured LLDP timer.

**Command Mode**
- Global Configuration

**Command Syntax**

```plaintext
lldp timer transmission_time  
no lldp timer  
default lldp timer
```

**Parameters**
- `transmission_time` - the period of time at which LLDPDUs are transmitted. Values range from 5 to 32768 seconds; the default is 30 seconds.

**Examples**
- This command configures a period of 80 seconds at which the LLDPDUs are transmitted.
  ```plaintext
  switch(config)# lldp timer 180  
  switch(config)#
  ```
- This command removes the configured period of time at which the LLDPDUs are transmitted.
  ```plaintext
  switch(config)# no lldp timer 180  
  switch(config)#
  ```
lldp tlv transmit

The lldp tlv transmit command allows the user to specify the type-length-values (TLVs) to include in LLDP packets.

Command Mode
Global Configuration

Command Syntax
lldp tlv transmit TLV_NAME
no lldp tlv transmit TLV_NAME
default lldp tlv transmit TLV_NAME

Parameters
- **TLV_NAME**  Options include:
  - link-aggregation specifies the link aggregation TLV.
  - management-address specifies the management address TLV.
  - max-frame-size specifies the Frame size TLV.
  - port-description specifies the port description TLV.
  - port-vlan specifies the port VLAN ID TLV.
  - system-capabilities specifies the system capabilities TLV.
  - system-description specifies the system description TLV.
  - system-name specifies the system name TLV.

Example
- This command enables the system description TLV:
  switch(config)# lldp tlv transmit system-description
  switch(config)#
- This command disables the system description TLV:
  switch(config)# no lldp tlv transmit system-description
  switch(config)#
- This command enables the max-frame-size TLV:
  switch(config)# lldp tlv transmit max-frame-size
  switch(config)#
- This command disables the max-frame-size TLV:
  switch(config)# no lldp tlv transmit max-frame-size
  switch(config)#
lldp transmit

The lldp transmit command enables the transit of LLDP packets on an interface.

Command Mode

  Interface-Ethernet configuration
  Interface-Management configuration

Command Syntax

  lldp transmit
  no lldp transmit
  default lldp transmit

Examples

  These commands enable the transmission of LLDP packets
  switch(config)#interface ethernet 4/1
  switch(config-if-Et4/1)#lldp transmit
  switch(config-if-Et4/1)#

  These commands disable the transmission of LLDP packets.
  switch(config)#interface ethernet 4/1
  switch(config-if-Et4/1)#no lldp transmit
  switch(config-if-Et4/1)#
show lldp

The **show lldp** command displays LLDP information.

**Command Mode**

`EXEC`

**Command Syntax**

```
show lldp [INTERFACE]
```

**Parameters**

- **INTERFACE** Interface type and numbers. Options include:
  - `<no parameter>` Display information for all interfaces.
  - `ethernet e_range` Ethernet interface range specified by `e_range`.
  - `management m_range` Management interface range specified by `m_range`.

Valid `e_range` and `m_range` formats include number, number range, or comma-delimited list of numbers and ranges.

**Examples**

- This command displays all LLDP information.

```
switch# show lldp
LLDP transmit interval : 60 seconds
LLDP transmit holdtime : 120 seconds
LLDP reinitialization delay : 2 seconds
LLDP Management Address VRF : test

Enabled optional TLVs:
Port Description
System Name
System Description
System Capabilities
Management Address (Management0)
IEEE802.1 Port VLAN ID
IEEE802.3 Link Aggregation
IEEE802.3 Maximum Frame Size

Port       Tx Enabled  Rx Enabled
Et3/1      Yes         Yes

<--------OUTPUT OMITTED FROM EXAMPLE-------->
```

- This command displays specific information about LLDP for Ethernet interface 3/1.

```
switch# show lldp ethernet 3/1
LLDP transmit interval : 30 seconds
LLDP transmit holdtime : 120 seconds
LLDP reinitialization delay : 2 seconds
LLDP Management Address VRF : default

Enabled optional TLVs:
Port Description
System Name
System Description
System Capabilities
```

switch#
This command displays specific information about LLDP for management interface 1/1.

```
switch# show lldp management 1/1
LLDP transmit interval : 60 seconds
LLDP transmit holdtime : 120 seconds
LLDP reinitialization delay : 2 seconds
LLDP Management Address VRF : default

Enabled optional TLVs:
  Port Description
  System Name
  System Description
  System Capabilities
  Management Address (Management0)
  IEEE802.1 Port VLAN ID
  IEEE802.3 Link Aggregation
  IEEE802.3 Maximum Frame Size

   Port       Tx Enabled  Rx Enabled
     Ma1/1      Yes         Yes

switch#
```
show lldp counters

The show lldp counters command displays LLDP traffic information for the switch.

Command Mode
EXEC

Command Syntax
show lldp counters [INTERFACE]

Parameters
- **INTERFACE** Interface type and numbers. Options include:
  - <no parameter> Display information for all interfaces.
  - ethernet e_range Ethernet interface range specified by e_range.
  - management m_range Management interface range specified by m_range.

Valid e_range and m_range formats include number, number range, or comma-delimited list of numbers and ranges.

Example
- This command displays the LLDP counters on the switch.

```plaintext
switch# show lldp counters

<table>
<thead>
<tr>
<th>Port</th>
<th>Tx Frames</th>
<th>Tx Length Exceeded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Et20</td>
<td>69485</td>
<td>0</td>
</tr>
<tr>
<td>Et21</td>
<td>69394</td>
<td>0</td>
</tr>
<tr>
<td>Et22</td>
<td>69203</td>
<td>0</td>
</tr>
<tr>
<td>Et23</td>
<td>57546</td>
<td>0</td>
</tr>
<tr>
<td>Et24</td>
<td>0</td>
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<tr>
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<th>Rx Errors</th>
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</table>
```
**show lldp local-info**

The **show lldp local-info** command displays LLDP errors and overflows.

**Command Mode**

**EXEC**

**Command Syntax**

```
show lldp local-info [INTERFACE]
```

**Parameters**

- **INTERFACE** Interface type and numbers. Options include:
  - `<no parameter>` Display information for all interfaces.
  - `ethernet e_range` Ethernet interface range specified by `e_range`.
  - `management m_range` Management interface range specified by `m_range`.

Valid `e_range` and `m_range` formats include number, number range, or comma-delimited list of numbers and ranges.

**Example**

- This command displays the specific LLDP errors and overflows on management interface 1.

```
switch# show lldp local-info management 1
Local System:
  - Chassis ID type: MAC address (4)
    Chassis ID     : 001c.730f.11a8qqq
  - System Name: "switch.aristanetworks.com"
  - System Description: "Arista Networks EOS version 4.13.2F running on an Arista Networks DCS-7150S-64-CL"
  - System Capabilities : Bridge, Router
    Enabled Capabilities: Bridge

Interface Management1:
  - Port ID type: Interface name (5)
    Port ID     : "Management1"
  - Port Description: ""
  - Management Address Subtype: IPv4 (1)
    Management Address : 172.22.30.154
  - Interface Number Subtype : ifIndex (2)
    Interface Number : 999001
    OID String : 
  - IEEE802.1 Port VLAN ID: 0
  - IEEE802.1/IEEE802.3 Link Aggregation
    Link Aggregation Status: Not Capable (0x00)
  - Port ID : 0
  - IEEE802.3 Maximum Frame Size: 1518 bytes

se505.16:01:44#
```

switch#
show lldp neighbors

The `show lldp neighbors` command displays information about the switch's LLDP neighbors.

Command Mode
EXEC

Command Syntax
```
show lldp neighbors [INTERFACE] [INFO_LEVEL]
```

Parameters
- **INTERFACE** Interface type and numbers. Options include:
  - <no parameter> displays information for all interfaces.
  - `ethernet e_range` Ethernet interface range specified by `e_range`.
  - `management m_range` Management interface range specified by `m_range`.
    Valid `e_range` and `m_range` formats include number, number range, or comma-delimited list of numbers and ranges.
- **INFO_LEVEL** amount of information that is displayed. Options include:
  - <no parameter> Displays information for all interfaces.
  - `detailed` LLDP information for all the adjacent LLDP devices.

Examples
- This command displays the neighbor's information about LLDP.
  
  switch(config)# show lldp neighbors
  Last table change time : 0:12:33 ago
  Number of table inserts : 33
  Number of table deletes  : 0
  Number of table drops   : 0
  Number of table age-outs: 0

  Port      Neighbor Device ID             Neighbor Port ID           TTL
  Et3/1     tg104.sjc.aristanetworks.com   Ethernet3/2                120
  Ma1/1     dc1-rack11-tor1.sjc            1/1                        120
  
  switch#

- This command displays LLDP neighbor information for Ethernet interface 3/1.
  
  switch# show lldp neighbors ethernet 3/1
  Last table change time : 0:16:24 ago
  Number of table inserts : 33
  Number of table deletes : 0
  Number of table drops   : 0
  Number of table age-outs: 0

  Port      Neighbor Device ID             Neighbor Port ID           TTL
  Et3/1     tg104.sjc.aristanetworks.com   Ethernet3/2                120
This command displays detailed LLDP neighbor information for Ethernet interface 3/1.

```
switch# show lldp neighbors 3/1 detail

<--------OUTPUT OMITTED FROM EXAMPLE-------->

Interface Ethernet 3/1 detected 1 LLDP neighbors:

Neighbor 001c.7300.1506/Ethernet6/25, age 8 seconds
Discovered 5 days, 3:58:58 ago; Last changed 5 days, 3:56:57 ago
  - Chassis ID type: MAC address (4)
    Chassis ID : 001c.7300.1506
  - Port ID type: Interface name (5)
    Port ID : "Ethernet6/25"
  - Time To Live: 120 seconds
  - Port Description: "Ethernet6/25"
  - IEEE802.3 Power Via MDI
    Port Class : PD
    PSE MDI Power Support : Not Supported
    PSE MDI Power State : Disabled
  - System Name: "Leaf-Switch1.aristanetworks.com"
  - System Description: "Arista Networks EOS version 4.10.1-SSO running on an
    Arista Networks DCS-7504"
  - System Capabilities : Bridge, Router
    Enabled Capabilities: Bridge
  - Management Address Subtype: IPv4 (1)
    Management Address : 172.22.30.116
  - Interface Number Subtype : ifIndex (2)
    Interface Number : 999999
  - IEEE802.1 Port VLAN ID: 1
  - IEEE802.1/IEEE802.3 Link Aggregation
    Link Aggregation Status: Capable, Disabled (0x01)
    Port ID : 0
  - IEEE802.3 Maximum Frame Size: 9236 bytes

switch#
```