LLDP Configuration Commands

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Chapter 1 **LLDP Configuration Commands**

1.1 LLDP Commands

1.1.1 lldp run

Syntax

lldp run

no lldp run

To start up LLDP, run **lldp run**; to Disable LLDP, run **no lldp run**.

Parameter

None

Default

Disabled

Usage Guidelines

None

Command Mode

Global configuration mode

Example

The following command is used to start up LLDP.

switch(config)# lldp run

1.1.2 lldp holdtime

Syntax

lldp holdtime *time*

no lldp holdtime

To configure the ttl value of LLDP, run **lldp holdtime *time***. To resume the default transmission delay, run **no lldp holdtime**.

Parameter

Parameter	Description
time	Storage time of the transmitted message, ranging between zero to 65535 seconds

Default

120s

Usage Guidelines

In normal, the remote information stored in the MIB will be updated before its aging. But the update frame may be lost during the transmission process, causing the information in the MIB to age. To prevent this, set the TTL value so that it updates the LLDP frame multiple times during the aging time.

Command Mode

Global configuration mode

Example

The following example shows how to set the ttl value of LLDP to 100 seconds.

```
switch(config)# lldp    holdtime 100
switch(config)#
```

1.1.3 lldp timer

Syntax

lldp timer *time*

no lldp timer

To configure the transmission interval of LLDP, run **lldp timer time**. To resume the default transmission delay, run **no lldptimer**.

Parameter

Parameter	Description

time	Interval for transmitting the LLDP message, ranging between 5 to 65534 seconds.

Default

30s

Usage Guidelines

The transmission interval of the LLDP message must be shorter than its storage time, ensuring multiple updates in the storage time and preventing error which is led by packet loss.

Command Mode

Global configuration mode

Example

The following example shows how to configure the transmission interval of LLDP to 24 seconds.

```
switch(config)# lldp   timer   24
switch(config)#
```

1.1.4 lldp reinit

Syntax

lldp reinit *time*

no lldp reinit

To configure the transmission delay of LLDP, run **lldp reinit time**. To resume the default transmission delay, run **no lldp reinit**.

Parameter

Parameter	Description
time	Transmission delay of LLDP, whose values range from two to five seconds

Default

2s

Usage Guidelines

LLDP information is automatically sent when the status or value of one or more information elements (managed objects) in the local system changes and the transmission timer expires. Since a single information change requires sending LLDP packets, a series of continuous information changes may trigger the transmission of many LLDP frames. Only one change is reported in each frame. To avoid this situation, network management defines waiting time between two consecutively senting LLDP frames.

Command Mode

Global configuration mode

Example

The following example shows how to set the transmission delay of LLDP to five seconds.

```
switch(config)# lldp  reinit  5
switch(config)#
```

1.1.5 lldp transmit

Syntax

lldp transmit

no lldp transmit

To set the port to send the LLDP message, run **lldp transmit**. To forbid receiving the LLDP message, run **no lldp transmit**.

Parameter

None

Default

Transmittable LLDP message mode

Usage Guidelines

Only after the LLDP module is started can the command be valid.

Command Mode

Port configuration mode

Example

The following example shows how to set port g0/0/1 not to send the LLDP message.

```
switch(config-g0/0/1)# no lldp  transmit
switch(config-g0/0/1)#
```

1.1.6 lldp receive

Syntax

lldp receive

no lldp receive

To set the port to the receivable LLDP message mode, run **lldp receive**. To forbid receiving the LLDP message, run **no lldp receive**.

Parameter

None

Default

Receivable LLDP message mode

Usage Guidelines

Only after the LLDP module is started can the configuration be valid.

Command Mode

Port configuration mode

Example

The following example shows how to set port g0/0/1 to the LLDP message mode.

```
switch(config-g0/0/1)# no lldp  receive
switch(config-g0/0/1)#
```

1.1.7 lldp management-ip

Syntax

lldp management-ip *A.B.C.D*

no lldp management-ip

To configure the management address of the LLDP port, run **lldp management-ip A.B.C.D**. To resume the default transmission delay, run **no lldp management-ip**.

Parameter

Parameter	Description
A.B.C.D	Stands for the management IP address that will be specified.

Default

The default management address is the IP of vlan interface corresponding to pvid. If the IP is not existed, the default management address is 0.0.0.0.

Usage Guidelines

The configured management IP address should be the IP address related with a port.

Command Mode

Interface configuration mode

Example

The following example shows how to set the management IP address of the port g0/0/1 to 90.0.0.99:

```
switch(config-g0/0/1)# lldp  management-ip 90.0.0.99
switch(config-g0/0/1)#
```

1.1.8 show lldp neighbors

Syntax

show lldp neighbors

It is used to display the simple information about neighbors.

Parameter

None

Default

None

Usage Guidelines

The command is used to display the simple information about neighbors.

Command Mode

EXEC / global configuration mode

Example

```
switch(config)#show lldp neighbors
Capability Codes:
        (R)Router,(B)Bridge,(C)DOCsIs Cable Device,(T)Telephone
        (W)WLAN Access Point, (P)Repeater,(s)station,(O)Other

Device-ID       Local-Intf      Hldtme      Port-ID         Capability
switch          Gig0/0/2          115         Gig0/0/32       B
switch          Gig0/0/32         114         Gig0/0/2        B

Total entries dispalyed: 2
switch(config)#
```

1.1.9 show lldp neighbors detail

Syntax

Show lldp neighbors detail

It is used to display the detailed information about the neighbor.

Parameter

None

Default

None

Usage Guidelines

None

Command Mode

EXEC/global configuration mode

Example

```
switch(config)#show lldp neighbors detail

chassis id: 00e0.0f61.ca53
port id: Gig0/0/32
port description: GigaEthernet0/0/32
system name: switch

system description: s3448 software, Version 2.0.1K
serial: s35000456
Compiled: 2008-11-13 13:33:36 by 16170F032B9F

Time remaining: 98
system capabilities: R B
enabled capabilities: B
Managment Address:
    IP: 192.168.213.62

Auto Negotiation -- supported,enabled
Physical media capabilitise:
    100baseTX(FD)
    100baseTX(HD)
    10baseT(FD)
    10baseT(HD)
Media Attachment Unit type: 16

----------------------------------------

chassis id: 00e0.0f61.ca35
port id: Gig0/0/2
port description: GigaEthernet0/0/2
system name: switch

system description: s3448 software, Version 2.0.1K
serial: s35000456
Compiled: 2008-11-13 13:33:36 by 16170F032B9F

Time remaining: 95
system capabilities: R B
enabled capabilities: B
Managment Address:
    IP: 90.0.0.66
```

Auto Negotiation -- supported,enabled
Physical media capabilitise:
    100baseTX(FD)
    100baseTX(HD)
    10baseT(FD)
    10baseT(HD)
Media Attachment Unit type: 16

Total entries dispalyed: 2
switch#