

# 05. LLDP

- 5.1. LLDP
- 5.2. LLDP
- 5.3. LLDP

## 5.1. LLDP

LLDP (Link Layer Discovery Protocol, 802.1ab) - , , , . LLDP , . , . ,: (Port name), (PortID), (ChassisID), (Management address), (PortDesc), (SysDesc).

 SNMP MIB NMS .

## 5.2. LLDP

1. LLDP ;
2. ;
3. Trap;
4. , ;
5. ;
6. .

1. LLDP :

lldp enable lldp disable !	LLDP . no
lldp enable lldp disable !	LLDP . no
lldp mode (send receive both disable) !	LLDP , send - , receive - , both - ( ), disable - lldp

2. :

lldp tx-interval <integer> no lldp tx-interval !	LLDP . no -- 30 .
lldp msgTxHold <value> no lldp msgTxHold !	tx-interval - LLDP . no -- 4.
lldp transmit delay <seconds> no lldp transmit delay !	LLDP . no -- 2 .

### 3. Trap:

lldp trap <enable/disable> !	LLDP trap . no .
lldp notification interval <seconds> no lldp notification interval !	trap LLDP . no - - 5 .

### 4. , :

lldp transmit optional tlv [portDesc] [sysName] [sysDesc] [sysCap] no lldp transmit optional tlv !	LLDP TLV : portDesc - description , sysName - (hostname), sysDesc - , sysCap - . no tlv
lldp management-address tlv [A.B.C.D] no lldp management-address tlv !	management-address tlv [A.B.C.D]. no .

### 5. :

lldp neighbors max-num < value > no lldp neighbors max-num !	. no - - 100.
lldp tooManyNeighbors {discard   delete} !	. delete - , discard - (-).

### 6. :

show lldp ! Admin	LLDP .
show lldp interface ethernet <IFNAME> ! Admin	LLDP .
show lldp traffic ! Admin	LLDP.
show lldp neighbors interface ethernet < IFNAME > ! Admin	LLDP

debug lldp no debug lldp <b>! Admin</b>	LLDP . <b>no</b> .
debug lldp packets interface ethernet <IFNAME> no debug lldp packets interface ethernet <IFNAME> <b>! Admin</b>	LLDP . <b>no</b> .
show debugging lldp <b>! Admin</b>	LLDP .
clear lldp remote-table <b>!</b>	LLDP .

## 5.3. LLDP

2 . **Switch B** LLDP . **Switch A** .

:  
Switch A:

```
SwitchA(config)# lldp enable
SwitchA(config)#interface ethernet 1/0/4
SwitchA(Config-If-Ethernet1/0/4)#lldp transmit optional tlv portDesc sysCap
SwitchA(Config-If-Ethernet1/0/4)#exit
```

Switch B:

```
SwitchB(config)#lldp enable
SwitchB(config)#interface ethernet1/0/1
SwitchB(Config-If-Ethernet1/0/1)#lldp mode receive
SwitchB(Config-If-Ethernet1/0/1)#exit
```