Interface Configuration Commands
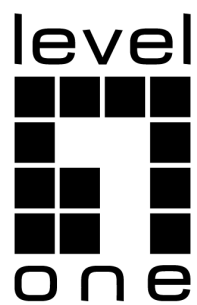
Table of Contents

Chapter 1   Interface Configuration Commands

1.1 Interface Configuration Commands

The following are interface configuration commands:

- Interface

- description

- bandwidth

- delay

- shutdown

- show interface

- show running-config interface

1.1.1   interface

Syntax

[no] interface *port*

To enter the interface configuration mode, run the above-mentioned command. If the logical port is inexistent, you have to create this port first and then enter the port mode. If the physical port is inexistent, the command will fail to be executed.

The **no interface *logical-port*** command is used to delete the logical port.

Parameter

Parameter	Description
Port	Stands for the existent physical or logical port.

Default

The default mode is not the port mode.

Usage Guidelines

When you execute this command in configuration mode, you have to enable this command to be in port configuration mode first. When the port command is configured, you shall use the **exit** command to exit from the port mode.

Example

The following example shows how to enter the port mode of port g0/0/1.

Switch(config)#
Switch(config)#interface g0/0/1
Switch(config-g0/0/1)#exit
Switch(config)#

1.1.2 interface range

Syntax

interface range *port-range*

Enter the port range configuration mode, the command is used for batch operation of port configuration.

Parameter

Parameter	Description
port-range	Port name range separated by "-", ",", such as g0/0/1-5,10

Default

None

Usage Guidelines

Run this command in configuration mode. To configure the port commands in batches, use this command to enter the port range configuration mode first. When the port command is configured, use the exit command to exit the port range configuration mode.

Example

The following example shows hoe to enter the port range configuration mode of g0/0/1, g0/0/2, g0/0/3, g0/0/4, g0/0/5, g0/0/10

Switch(config)#interface range g0/0/1-5,10
Switch(config-g0/0/1-5,10)#
Switch(config-g0/0/1-5,10)#exit
Switch(config)#

1.1.3 description

Syntax

[no] description *line*

To set the description information of a port, run the above-mentioned command.

Parameter

Parameter	Description
line	Stands for the character string of the description information

Default

There is no description information by default.

Usage Guidelines

This command is configured in port configuration mode.

Example

The following example shows how to set the description information of port g0/0/1 to "**up link**".

Switch(config)#interface g0/0/1
Switch(config-g0/0/1)#description uplink

1.1.4 shutdown

Syntax

[no] shutdown

To close a port, run **shutdown**; to restart a port, run **no shutdown**.

Parameter

None

Default

The physical port is in **enabled** status by default.

Usage Guidelines

This command can be used in port mode to enable or disable a port.

Example

The following example shows how to enable port g0/0/1.

```
Switch(config)#interface g0/0/1
Switch(config-g0/0/1)#no shutdown
Switch(config-g0/0/1)#
```

1.1.5   show interface

Syntax

show interface *<port>*

To browse the state of an interface, run the above-mentioned command.

Parameter

Parameter	Description
Port	Name of an interface If a specific port is not in the command, the system will show the statuses of all ports.

Default

None

Usage Guidelines

This command can be used in EXEC mode and configuration modes to show the physical status and packet reception statistics of a port.

Example

The following example shows the information about port g0/0/1:

```
Switch(config)#show interface g0/0/1
g0/0/1 is down, line protocol is down
   Ifindex is 3
   Hardware is Giga-TX, address is 8479.7335.06c1 (bia 8479.7335.06c1)
   Encapsulation ARPA
   Auto-duplex,   Auto-speed,   Flow-Control Off
```

5 minutes input rate 0 bits/sec, 0 packets/sec

5 minutes output rate 0 bits/sec, 0 packets/sec

Real time input rate 0%, 0 bits/sec, 0 packets/sec

Real time output rate 0%, 0 bits/sec, 0 packets/sec

    Received 0 packets, 0 bytes

    0 broadcasts, 0 ucasts   0 multicasts

    0 FCS, 0 PAUSE   0 jabber, 0 jumbo

    0 undersize, 0 collision 0 error

    0 overrun, 0 oversize

    0 63B packets, 0 64B packets

    0 65B~127B packets, 0 128B~255B packets

    0 256B~511B packets, 0 512B~1023B packets

    0 good 1519B packets, 0 bad 1519B packets

    Transmitted 0 packets, 0 bytes

    0 broadcasts, 0 ucasts   0 multicasts

    0 FCS, 0 jumbo 0 underrun

    0 63B packets, 0 64B packets

    0 65B~127B packets, 0 128B~255B packets

    0 256B~511B packets, 0 512B~1023B packets

    0 good 1519B packets, 0 pause

1.1.6 show running-config interface

Syntax

show running-config interface *port*

To display the settings of a port, run the above-mentioned command.

Parameter

Parameter	Description
Port	Stands for the existent port.

Default

None

Usage Guidelines

This command can be executed in EXEC or configuration mode to browse the settings of a port.

Example

The following example shows the settings of port g0/0/1:

```
Switch(config)#show running-config interface g0/0/1
Building configuration...
Current configuration:
!
interface g0/0/1
 shutdown
 description uplink
Switch(config)#
```

1.2 Configuration Example

The following example shows how to create a VLAN port, set its description information and IP address and browse the status and settings of this port.

```
Switch(config)#interface vlan1

Switch(config-vlan1)#ip address 192.168.1.1 255.255.255.0

Switch(config-vlan1)#exit

Switch(config)#

Switch(config)#interface vlan1

Switch(config-vlan1)#description uplink

Switch(config-vlan1)#

Switch(config-vlan1)#ip address 192.168.1.1 255.255.255.0

Switch(config-vlan1)#exit

Switch(config)#

Switch(config)#show running-config interface vlan1

Building configuration...

Current configuration:

!

interface vlan1

 description uplink

 ip address 192.168.1.1 255.255.255.0

Switch(config)#
```

Switch(config)#show interface vlan1

vlan1 is up, line protocol is up

   Ifindex is 449

   Encapsulation ARPA

   Peak input rate 0 pps, output 0 pps

     5987 packets input, 363924 bytes

     Received 5987 broadcasts, 0 multicasts

     0 mpls unicasts, 0 mpls multicasts, 0 mpls input discards

     0 input errors, 0 discards, 0 protocol unknown

     0 packets output, 0 bytes

     Transmited 0 broadcasts, 0 multicasts

     0 mpls unicasts, 0 mpls multicasts, 0 mpls output discards

     0 output errors, 0 discards

Switch(config)#