

Configuration Preparation

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1 Configuration Preparation

The chapter mainly describes the following preparatory works before you configure the switch at the first time:

- Port number of the switch
- Preparation before switch startup
- How to get help
- Command mode
- Cancelling a command
- Saving configuration

1.1 Port Number of the Switch

The physical port of the switch is numbered in the **<type><slot>/<port>** form. The type-to-name table is shown as follows:

Interface Type	Name	Simplified Name
10M Ethernet	Ethernet	e
100M fast Ethernet	FastEthernet	f
1000M Ethernet	GigaEthernet	g

The expansion slot number to mark and set ports must be the number **0**. Other expansion slots are numbered from left to right, starting from **1**.

The ports in the same expansion slot are numbered according to the order from bottom to top and the order from left to right, starting from 1. If only one port exists, the port number is 1.

Note:

The ports of various modules are numbered in the order from bottom to top and the order from left to right.

1.2 Preparation Before Switch Startup

Do the following preparatory works before the switch is configured:

- 1) Set the switch's hardware according to the requirements of the manual.
- 2) Configure a PC terminal simulation program.
- 3) Determine the IP address layout for the IP network protocols.

1.3 Acquiring Help

Use the question mark (?) and the direction mark to help you enter commands:

- Enter a question mark. The currently available command list is displayed.

Switch>?

- Enter several familiar characters and press the space key. The available command list starting with the entered familiar characters is displayed.

Switch>s?

- Enter a command, press the space key and enter the question mark. The command parameter list is displayed.

Switch>show ?

- Press the "up" key and the commands entered before can be displayed. Continue to press the "up" key and more commands are to be displayed. After that, press the "down" key and the next command to be entered is displayed under the current command.

1.4 Command Modes

The command line interfaces for the switch can be classified into several modes. Each command mode enables you to configure different groupware. The command that can be used currently is up to the command mode where you are. You can enter the question mark (?) in different command modes to obtain the available command list. Common command modes are listed in the following table:

Command Mode	Login Mode	Prompt	Exit Mode
System monitor mode	Enter Ctrl-p when open the power.	monitor#	Run quit .
User mode	Log in.	Switch>	Run exit or quit .
Configuration mode	Enter enter or enable command in User mode.	Switch#	Run exit or quit .
Global configuration mode	Enter configure terminal in global configuration mode.	Switch_config#	Run exit or quit or Ctrl-z to back to the configuration mode
Port configuration mode	Enter the interface command in global configuration mode, such as interface f0/1 .	Switch_config_f0/1#	Run exit or quit or Ctrl-z to back to the configuration mode

Each command mode is unsuitable to subsets of some commands. If problem occurs when you enter commands, check the prompt and enter the question mark to obtain the available command list. Problem may occur when you run in incorrect command mode or you misspelled the command.

Following is the example.

```
Switch>enter
```

```
Password:<enter password>
```

```
Switch#config
```

```
Switch_config#interface f0/1
```

```
Switch_config_f0/1# quit
```

```
Switch_config# quit
```

Switch#

1.5 Canceling a Command

To cancel a command or resume its default properties, add the keyword "no" before most commands. An example is given as below:

no ip routing

1.6 Saving the Command

If you need to save the configuration, you can use **write** command to save the configuration under the global configuration mode or the configuration mode. Then It can restore the configuration fast after the system reboot or power failure.