

Getting Started

This chapter tells you how to get your Cisco Catalyst 1800 Token Ring Switch working. It contains the following sections:

- Installing Your Cisco Catalyst 1800
- Using the Console Interface
- Special Features
- Accessing the Main Menu
- Quick Configuration
- Changing your Password
- Exiting the Console Interface

Installing Your Cisco Catalyst 1800

Perform the following steps to connect your Cisco Catalyst 1800 to a PC or VT series compatible terminal:

- Step1** Connect one end of the supplied console cable to the console port on the front of the Cisco Catalyst 1800 and the other end to the appropriate communications port on the PC or VT series terminal.
- Step2** Turn on the PC and configure your VT emulation package (e.g., ProCOMM Plus) or Setup Directory (VT terminal) with the following parameters to allow access to the Cisco Catalyst 1800's out-of-band management:

Table2-1 Terminal Emulation Parameters (Sheet 1 of 2)

Parameter	Value
Speed	9600
Data Bits	8 Bits
Stop Bits	1 Stop Bit
Parity	None
Duplex	Full

Table2-1 Terminal Emulation Parameters (Sheet 2 of 2)

Parameter	Value
Flow Control	Off

- Step3** Power up the Cisco Catalyst 1800.
- Step4** When the Cisco Catalyst 1800 has completed booting up, you are prompted to enter a password.
- Step5** The system default password is **public**.

Using the Console Interface

This section describes how to use the console interface of the Cisco Catalyst 1800. The console interface is a standard male DB-9 connector and provides access to menu commands via a PC or VT series compatible terminal.

You can access all configuration parameters available in the SNMP MIBs through the console interface. All configurable parameters are stored in non-volatile RAM (NVRAM) for access on subsequent boots of the Cisco Catalyst 1800.

The console interface combines a menu display with a command line input function. The menu selections are made through the fully interactive command line interface.

You can access menus by entering a menu selection at the console prompt (`Catalyst 1800>`). When the desired menu appears, enter the selection on the command line with the required parameters.

For example, to configure port 1 with IP information, enter this command at the prompt:

Configure ip 1 address 204.242.251.3

The next menu will display above the command line each time you enter a keyword and press `<SP>`. The preceding sample displays the Configuration menu, the Configuring IP Parameters menu, and the IP Parameters Display menu. A more detailed example is provided in Quick Configuration on page 2-5. Unless otherwise noted, all configuration parameters take effect immediately.

Abbreviated Text Recognition

You can specify a command by using a shorthand known as Abbreviated Text Recognition. This means that the Cisco Catalyst 1800 allows you to enter the minimal number of characters that it takes to recognize a certain parameter. It then presents you with the next screen.

Therefore, you could also enter the preceding example by using the following syntax:

c i 1 a 204.242.251.3

Note If the abbreviation is too short for recognition, the system erases it. Retype the entry, supplying additional characters.

Command Line Editing

If you want to change a series of parameters listed on the same menu, you need to reenter the same string of initial parameters and supply the unique final one. For example, the IP Parameters Display menu also allows you to change the subnet mask. To change the subnet mask after you have changed the IP address, you could retype the first part of the command, supplying the unique value for the subnet address:

```
c ip 1 s 155.243.251.4
```

Or you could use <ctrl P>, the previous command callback. This feature recalls the command you typed previously. Then press <Backspace> to erase the IP portion of the command and type the new parameter value you want.

As you type the parameters, you can display the next screen either by pressing <CR> or <SP>. In most cases, this manual instructs you to press <CR>. Most of the time you can use either key.

However, if you are using <SP> to display your screens and reach the end of a series of parameters, the system displays this prompt:

```
End of command. Enter <CR>.
```

On-line Help

At any point, you can access the On-Line Help screen. Type this command:

```
h<SP>
```

The following screen appears, providing instructions on keyboard shortcuts.

Figure2-1 On-Line Help Screen

Cisco Systems Catalyst 1800 Token Ring Switch

Help on Key Strokes

Keystroke	Result	Keystroke	Result
Ctrl-A	Beginning Of Line	Ctrl-K	Clear to End of Line
Ctrl-P	Restore Prev Command Line	Ctrl-N	Restore Next Command Line
SPACE	Enter Next Command Screen	ESC	Return to Prev/Main Menu

Use CR to select next Command Menu or complete a Command

To Refresh the Screen, select System Refresh

Special Features

This section explains the following special features of the Cisco Catalyst 1800:

- Using the Display command
- Configuring all ports at once
- Displaying the previous screen

Using the Display Command

Many configuration menus list a Display command among the available options. Use this command to display the current settings for all ports. If this feature is available for the component you are using, the system displays a message similar to the following:

```
Enter port number or 0 for all ports
```

At this point, you can either type **0** or the port number. If you type **0**, the parameters that you change will affect all of the ports connected to the Cisco Catalyst 1800.

Note Where applicable, Token Ring port configurations will not necessarily affect an FDDI port.

Displaying the Previous Screen

If you want to display the previous screen at any time, press **<ESC>**.

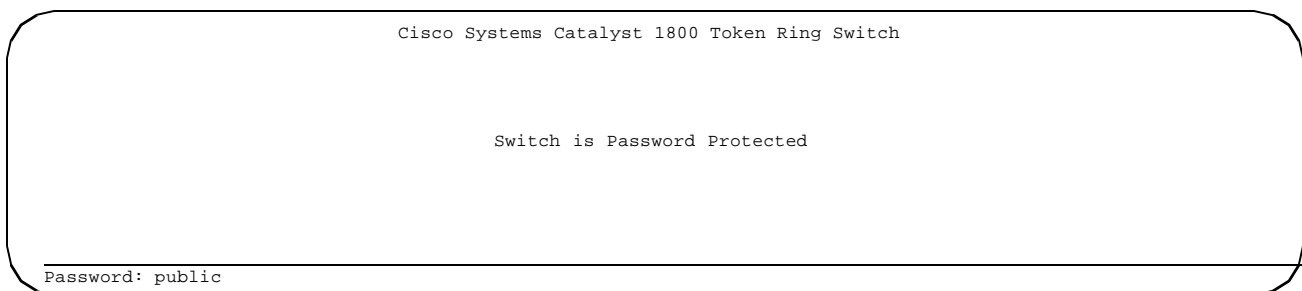
Accessing the Main Menu

Perform the following steps to access the Cisco Catalyst 1800 Main menu:

- Step1** Load your MS-DOS terminal emulation software, such as ProCOMM Plus. (The baud rate defaults to 9600 bps.)
- Step2** Turn on the Cisco Catalyst 1800.
- Step3** The Cisco Catalyst 1800 Password menu appears (Figure 2-1). The system displays the following prompt:

```
Enter Password
```

Figure2-2 Cisco Catalyst 1800 Password Menu



Cisco Systems Catalyst 1800 Token Ring Switch

Switch is Password Protected

Password: public

Step4 Type a valid password (a Community Name with Read-Write access) at the prompt. The default password is **public**. To change your password, see Changing your Password on page 2-12.

The Cisco Catalyst 1800 Main menu appears. The four submenus (Configure, Monitor, Security, System) listed on this menu contain industry standard network management parameters. This menu is the gateway to configuring the software, monitoring performance, setting security parameters, updating the system software and parameters, accessing on-line help, and exiting the system which returns you to the Password Menu.

Figure2-3 Cisco Catalyst 1800 Main Menu

```
Cisco Systems Catalyst 1800 Token Ring Switch

      Select From

      Configure
      Monitor
      Security
      System
      Quit
      Help

Catalyst 1800>
```

```
Cisco Systems Catalyst 1800 Token Ring Switch

      Select From

      Configure
      Monitor
      Security
      System
      Quit
      Help

Catalyst 1800>
```

Quick Configuration

This section describes the steps you need to take to configure either a single ring or multi-ring switch. It also explains how to customize the Cisco Catalyst 1800 descriptions.

Before you do a quick configuration, you need to know the following:

- The IP address that you want to assign to the Cisco Catalyst 1800
- The IP subnet mask your organization uses
- The IP address of the network management platform (SNMP)
- The IP address of your router (if you have one)
- The segment (ring) number(s) you plan to connect to the Cisco Catalyst 1800 (if you are configuring a multi-ring switch)

Configuring a Single-Ring Switch

Follow these steps:

Step1 Connect a PC or VT series terminal to the Cisco Catalyst 1800 console port using the supplied cable kit. (The baud rate defaults to 9600 bps.)

Step2 Turn on the PC terminal.

Step3 Turn on the Cisco Catalyst 1800.

Step4 Enter a valid password (the default password is **public**).
The Cisco Catalyst 1800 Main menu appears (Figure 2-3).

Step5 If you want to use SNMP network management, type this command:

Configure<SP>IP<SP>

The system responds:

Enter port number or 0 for setting all ports

Step6 Type this command (using the shortest unique command string) to set the IP parameters for all ports:

c<SP>i<SP> 0

The Configuring IP Parameters menu appears and the system prompts you to choose a menu selection.

Note From this menu, you can select any parameter to display the IP Configuration menu. You can also type the Display command.

Figure2-4 **Configuring IP Parameters Menu**

```
Cisco Systems Catalyst 1800 Token Ring Switch

Select From

Address
Default Gateway
Subnet Mask
Display

Catalyst 1800> c i<sp>
```

```
Cisco Systems Catalyst 1800 Token Ring Switch

Select From

Address
Default Gateway
Subnet Mask
Display
```

```
Catalyst 1800> c i<sp>
```

Step7 Continue typing this command at the prompt:

Addr<SP>xxx.xxx.xxx.xxx <CR>

where *xxx.xxx.xxx.xxx* is the IP address that you have assigned to the Cisco Catalyst 1800.

The IP Parameters Display menu appears.

Figure2-5 IP Parameters Display Menu

```
Cisco Systems Catalyst 1800 Token Ring Switch

IP Address Information for port 0

IP Address: 0.0.0.0
Subnet Mask: 0.0.0.0
Default Gateway:0.0.0.0

Catalyst 1800> Configure IP 0 Addr
```

Cisco Systems Catalyst 1800 Token Ring Switch

IP Address Information for port 0

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Default Gateway:0.0.0.0

Catalyst 1800> Configure IP 0 Addr

- Step8** Press <Ctrl-P>. The previous command is recalled.
- Step9** Press <Backspace> until the parameter **Addr** is removed.
- Step10** Type the following command:

s<SP>xxx.xxx.xxx.xxx <CR>

where *xxx.xxx.xxx.xxx* is the corporate standard your organization uses for their IP subnet mask.

- Step11** Press <Ctrl-P>. The previous command is recalled.
- Step12** Press <Backspace> until the parameters is removed.
- Step13** Type the following command:

def<SP>xxx.xxx.xxx.xxx <CR>

where *xxx.xxx.xxx.xxx* is the IP Address of the default gateway device on this subnet.

You can now configure the Cisco Catalyst 1800 from an SNMP-based network management platform.

Configuring a Multi-Ring Switch

If you plan to configure the switch for Multi-Ring Mode Operation (i.e. you need to support multiple ring numbers), follow these steps:

- Step1** Type this command at the Cisco Catalyst 1800 Main menu:

Configure<SP>Logical<SP>1

The Configuring Logical Segments menu appears for port 1. If you are configuring a different port, type its number.

Figure2-6 Configuring Logical Segments Menu

```
Cisco Systems Catalyst 1800 Token Ring Switch
```

```
      Select From
```

```
Best Path  
Frame Size  
Max Hops  
Port Type  
Ring Number  
STEMode  
Display
```

```
Catalyst 1800>Configure Logical 1<SP>
```

```
Cisco Systems Catalyst 1800 Token Ring Switch
```

```
      Select From
```

```
Best Path  
Frame Size  
Max Hops  
Port Type  
Ring Number  
STEMode  
Display
```

```
Catalyst 1800>Configure Logical 1<SP>
```

Step2 Type r.

The Logical Segments Display menu appears.

Figure2-7 Logical Segments Display

```
Cisco Systems Catalyst 1800 Token Ring Switch
Logical Segment Configuration
Port#   Type   Segment#   FrameSeq   MaxHops MaxFrame STEMode   BestPath
1       SRT   101(x065)  NA         7       4865    Forced    Enabled
2       SRT   101(x065)  NA         7       4865    Forced    Enabled
3       SRT   101(x065)  NA         7       4865    Forced    Enabled
4       SRT   101(x065)  NA         7       4865    Forced    Enabled
5       SRTB  102(x066)  TB,SR     7       4865    Forced    Enabled
Catalyst 1800> Configure logical 0 display
```

Step3 Type the hex value of the segment (ring) number (displayed in decimal and (hex) notation) you plan to connect to the Cisco Catalyst 1800. Then configure each port to match that segment number. Note that all segment numbers default to 101(x65).

Customizing the System Descriptions

If you want to customize the Cisco Catalyst 1800 system descriptions, perform these steps:

Step1 Type this command at the Cisco Catalyst 1800 Main menu:

Configure<SP>System <SP>

Step2 The Configure System Information menu appears, displaying this prompt:

Figure2-8 Configure System Information Menu

```
Enter Next Menu Selection
Cisco Systems Catalyst 1800 Token Ring Switch
Select From
Contact
Date
Descriptor
Location
Name
Time
Display
Catalyst 1800>Configure System
```

Step3 To display the System Information menu, type this command:

con sys display

The System Information menu appears.

Figure2-9 System Information Menu

```

Cisco Systems Catalyst 1800 Token Ring Switch

System Information

Description      : Cisco Catalyst 1800
Admin. Contact  : Technical Support
Name            : TRSwitch.company.com
Location        :
Date            : Thursday, September 21, 1995 DST
Time            : 11:50:21
UpTime          : 10 days 6:44:45
Temperature     : 51°C
Power Config    : A

HW Rev          : K00 S/N: 25510121 Part #: MOD-0044-00
SW Rev          : TRX.2.1.6
HW Image Rev    : TRX A34
Boot ROM Rev    : TRX MP01.x1-TRX LB0.2x1

Catalyst 1800> configure system display

```

Step4 Continue entering the following:

Description<SP>

Step5 Enter a description for the Cisco Catalyst 1800 and press <CR>.

If you want spaces between words, enclose the words between double quotes. For example, type “Cisco Catalyst 1800”.

Step6 Press <Ctrl-P>. The previous command is recalled.

Step7 Press <Backspace> until the value and the Description keyword are removed.

Step8 Type the following command:

Name<SP>

Step9 Enter a unique name for the Cisco Catalyst 1800 and press <CR>. For example, type **TRswitch.company.com**.

Note You do not need to enclose this designation with quotes, unless there are spaces within the name.

Step10 Press <Ctrl-P>. The previous command is recalled.

Step11 Press <Backspace> until the value and the Name keyword are removed.

Step12 Type the following command:

Location<SP>

Step13 Enter the location of the Cisco Catalyst 1800 and press <CR>.

For example, type “Bldg. 9 Anytown”.

Step14 Press <Ctrl-P>. The previous command is recalled.

Step15 Press <Backspace> until the value and the Name keyword are removed.

Step16 Type the following command:

Contact<SP>

Step17 Enter contact information and press <CR>.

For example, type “**Technical Support**”.

The system information configuration is finished.

Changing your Password

The Cisco Catalyst 1800 Password is defined by the Community Name. If you want to change the switch password, you will have to add or change a Community Name, ensuring that it has Read/Write access. For more information, see Configuring SNMP on page 3-28.

If more than one Community Name with R/W access exists, all of those names will be valid passwords for the switch. If a R/W community name has been entered, R/O community names will no longer be accepted as the password.

Exiting the Console Interface

Type this command to exit the console interface:

Q

The Password prompt screen reappears.