

Cisco 675 Frequently Asked Questions

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Introduction

This document addresses the most frequently asked questions about the Cisco 675.

Q. How do I connect my PC to the Cisco 675 through the management port?

A. Use the serial cable that is supplied with your modem to connect the com port on the PC to the management port on the modem. This cable has a DB-9 connector on the PC end and an RJ-45 plug on the modem end. Use a terminal program such as HyperTerminal or ProComm to connect to the modem. Configure these attributes:

- ◆ com port = Enter the port that the cable is plugged into
- ◆ bits per second = 38400
- ◆ data bits = 8
- ◆ parity = none
- ◆ stopbits = 1
- ◆ flowcontrol = none

Press **Enter** twice to get to the modem prompt (cbos>). Type **enable** to enter privileged mode. You are now connected through the management port.

A. For a description of cables, refer to the DSL Modem/Router Interface Pinouts and Status LED Descriptions and the Cisco 675 Connectors sections of the *Cisco 600 Series Customer Premise Equipment (CPE) Products* document.

Q. How do I make a management cable for the Cisco 600 series customer premises equipment (CPE)?

A. Refer to Making a Management Cable for the Cisco 600 Series CPE.

Q. How do I log in to the Cisco Broadband Operating System (CBOS)/NSOS Web Management interface?

A. Refer to Logging In to the CBOS/NSOS Web Management Interface.

Q. Where can I find all the sample configurations for the Cisco 6xx series?

A. Refer to DSL Product Support Pages.

Q. Where can I find a sample configuration for the Cisco 675 to support PPP over Ethernet (PPPoE) PC clients?

A. Refer to Configuring a Cisco 675 Router to Support PPPoE Clients.

Q. How do I configure the Cisco 675 for PPP over ATM with Network Address Translation (NAT) enabled?

A. Log in to the console port of the Cisco 675 in privileged mode (see How do I connect to the Cisco 675 through the management port?). Perform these steps:

1. Type **set nvram erase** to erase any saved configuration.
2. Type **set nvram write**. Press **Enter**.
3. Type **set ppp wan0-0 login**, where *login* is the username provided by your service provider. Press **Enter**.
4. Type **set ppp wan0-0 password**, where *.password* is the password provided by your service provider. Press **Enter**.
5. Type **set ppp wan0-0 ipcp 0.0.0.0**. Press **Enter**.
6. Type **set ppp wan0-0 dns 0.0.0.0**. Press **Enter**.
7. Type **set ppp wan0-0 sdns 0.0.0.0**. Press **Enter**.
8. Type **set nat enable**. Press **Enter**.
9. Type **set dhcp server enable**. Press **Enter**.
10. Type **write**. Press **Enter**.
11. Type **reboot**. Press **Enter**.

Q. How do I find my routed IP address on the Cisco 675 in PPP mode?

A. At the modem prompt (`cbos>`), type **show nat**. Press **Enter**. The modem displays the NAT status and routed IP address, like this:

```
NAT is currently enabled
Inside Global Address set to 216.160.23.4
```

Q. How do I configure the Cisco 675 for bridge mode with bridging management enabled?

A. When the Cisco 675 operates in bridge mode, it behaves like a wire connecting a local PC directly to a service provider's network. To run applications that require IP communication, such as ping, enable bridging management. To enable bridging management, log in to the console port of the Cisco 675 (see How do I connect to the Cisco 675 through the management port?). Perform these steps:

1. Type **set bridging rfc1483 enabled**. Press **Enter**.
2. Type **set bridging management enabled**. Press **Enter**.
3. Using an eth0 address in the same subnet as the one assigned for the PC, type **set int eth0 address <ip address> .** and press **Enter**.
4. Using the same eth0 mask that is set up on the PC, type **set int eth0 mask <ip address> .** and press **Enter**.

Q. How do I connect two or more PCs to the Cisco 675?



Caution: Before you attempt this connection, contact your service provider to verify that they support this scenario. This is not supported by all providers.

To connect two or more PCs to the Cisco 675 CPE, you need an external 10BaseT hub. Use a straight-through cable to connect both the Cisco 675 Ethernet port and the PC Ethernet port to the hub. The PC needs an IP address to start network connectivity. Obtain an IP address for your PC from the Cisco 675 (enable DHCP) or from your service provider. To obtain the IP address from the Cisco 675, select the **Obtain an IP address automatically** option on the

TCP/IP properties on your PC and then restart the computer.

If you obtain the IP address from your service provider, you need the IP address, subnet mask, gateway, and Domain Name System (DNS) server address. After you have this information, manually configure the TCP/IP properties on the PC. Click **OK** to save the TCP/IP configuration and restart the PC. After the PC has restarted, try to ping the Ethernet address of the Cisco 675. If the ping fails, check the hardware connections and the configuration on both the PC and the Cisco 675.

Note: If the Cisco 675 is configured for NAT, the default LAN IP network is 10.0.0.0 and the default subnet mask is 255.255.255.0. Assign an IP address to your PC that starts at 10.0.0.2 with a subnet mask of 255.255.255.0. The default gateway, which is the IP address of the Ethernet on the Cisco 675, is 10.0.0.1.

Q. What is CBOS?

A. Cisco Broadband Operating System (CBOS) is the common operating system for all Cisco 600 series CPE. This includes the Cisco 675, 675e, 676, and the Cisco 677. Refer to the Cisco Broadband Operating System User Guide for more information. Note that the Cisco 605 PCI adapter does not use CBOS software.

Q. What is Cisco CPE Commander?

A. Cisco CPE Commander is software that is used to manage Cisco 675 settings from Windows NT, Windows 95/98, and Macintosh platforms. Cisco CPE Commander version 1.4 is the first release that works on Windows 2000. Refer to Cisco CPE Commander for more information.

Q. How do I get the latest upgrade software for my Cisco 675 and Cisco CPE Commander?

A. Download a software upgrade from the Cisco Software Center. However, you must be a registered user and you must be logged in. Direct your Web browser to Software Center—Access Software (registered customers only) . Under 600 Series,. download the appropriate version of CBOS software or Cisco CPE Commander.

Note: CBOS is the operating system software that runs on the Cisco 675. The Cisco CPE Commander software is used to manage Cisco 675 settings from a Windows NT, Windows 95/98 or a Macintosh platform. Cisco CPE Commander version 1.4 is the first release that works on Windows 2000.

Q. How can I upgrade software on a Cisco 675 using Telnet?

A. These directions are to install new software on the Cisco 675 with the help of Windows NT and TFTP client software. Write down your configuration before you begin , as this procedure erases your current configuration.

1. Login as **root** on the console port of the Cisco 675.
2. Type **set nvram erase** and press **Enter**.
3. Type **set int eth0 address <ip address> mask 255.255.255.0**, where the Ethernet IP address is on the same subnet as your PC Ethernet address. Press **Enter**.

4. Type **write**. Press **Enter**.
5. Type **reboot**. Press **Enter**.
6. At the prompt, log in as **root**.
7. Type **set tftp enabled**. This allows you to download a new image through the Ethernet port.
8. Open a DOS window on the PC. Navigate to the directory that contains the new software image. Type **tftp <ip addr of 675> put <image-name>** and press **Enter**.
9. After a few seconds, a byte count starts to increment . When the TFTP session is complete, return to the Cisco 675. On the console port, type **reboot**. Press **Enter**. The new banner reports the code revision. Log in and reconfigure the Cisco 675.

Note: If the TFTP command on your PC locks up, press **Ctrl + C** to quit TFTP. Then follow these steps:

1. Make sure that you use the yellow Ethernet cable that is supplied with the Cisco 675.
2. Type **ping <your PC IP address>** . Press **Enter** to verify that you are able to reach your PC from the Cisco 675. If this does not work, check your network connection.
3. Restart the procedure with step 6.

Q. How can I upgrade software on a Cisco 675 using the serial interface?

A. Refer to Installing Software on the Cisco 600 Series Via Serial Download.

Q. How do I configure static NAT?

A. Contact your application vendor to find out the ports used. In this example, the private address of your server is 10.0.0.2. The public/routed address assigned to your Cisco 675 is 216.160.92.4.

1. Type **enable** at the command prompt of your Cisco 675 to enter privileged mode.
2. Type **set nat entry add**, followed by these arguments:

```
<ip> inside IP address
<port> inside port number
<ip> outside IP address
<port> outside port number
<protocol> UDP, TCP or ICMP
```

For example, if you run a Web server, enter:

```
set nat entry add 10.0.0.2 80 216.160.92.4 80 tcp
```

If you run an FTP server, enter one of these commands:

```
set nat entry add 10.0.0.2 20 216.160.92.4 20 tcp
or
```

```
set nat entry add 10.0.0.2 21 216.160.92.4 21 tcp
```

Q. How can I identify which version of the CBOS I am running?

A. Use this procedure:

1. Log in to the console port of your Cisco 675 (see How do I connect to the Cisco 675

- through the management port?).
2. Type **show version** and press **Enter**. The software version is displayed.

```
CBOS (tm) 675 Software (C675-I-M), Version v2.2.0.000  
Copyright (c) 1986-1999 by Cisco Systems, Inc.  
Compiled Aug 24 1999 18:31:28  
NVRAM image at 0x102f6400
```

Q. How can I recover my Cisco 675 password?

A. Refer to the Password Recovery Procedure for the Cisco 6xx Router for information to recover your password.

Q. How do I run debug on the Cisco 675 CPE?

A. Refer to Running Debugs on the Cisco 675 CPE.

Q. How do I display and change the virtual path identifier/virtual channel identifier (VPI/VCI) values on the Cisco 675 CPE?

A. Refer to Displaying and Changing VPI/VCI Values on the Cisco 675 CPE.

Q. How do I troubleshoot login and Telnet problems on the Cisco 675 CPE?

A. Refer to Troubleshooting Errors in Network Side Login and Telnet to the Cisco 675 CPE.

Q. Where can I find digital subscriber line (DSL) product and security field notices?

A. Refer to the DSL/Aggregation Field Notices.

Q. Where can I find documentation for the Cisco 675 CPE?

A. Refer to Cisco 600 Series CPE Products. This document includes information about installation and operation, CBOS, Cisco CPE Commander, and EZ-DSL Microfilter specifications. This document also includes release notes and regulatory compliance and safety information.

Q. Where can I find the Cisco 600 Series Installation, Troubleshooting and Operation Guide?

A. Refer to the Cisco 600 Series Installation and Operation Guide. This guide covers troubleshooting, connectors, specifications, and EZ-DSL Microfilter specifications.

Q. What is a Cisco 605 PCI ADSL modem?

A. The Cisco 605 protocol control information (PCI) asymmetric digital subscriber line (ADSL) modem is a PCI adapter for use in PCI-compliant personal computers. Designed for easy installation, it slides into any PCI slot. Using high-speed ADSL technology, the Cisco

605 provides a connection to networks such as corporate LAN or the Internet. The Cisco 605 PCI adapter does not use CBOS software.

For more information, refer to the Cisco 605 Documentation and Supporting the Cisco 605 PCI ADSL Adapter at End of Life.

Q. Where do I learn more about using plain old telephone service (POTS) splitters and microfilters in a DSL environment?

A. Refer to Using POTS Splitters and Microfilters in a DSL Environment.

Q. Where do I find information about DSL modem/CPE interface pinouts and status LED descriptions?

A. Refer to the DSL Modem/Router Interface Pinouts and Status LED Descriptions.

Q. Where do I find information about compatibility of components in Cisco DSL equipment?

A. Refer to the Compatibility of Components in Cisco DSL Equipment.

Q. How do I enter and exit ROM Monitor mode on a Cisco 600 series CPE?

A. Refer to Entering and Exiting ROM Monitor Mode on a Cisco 600 Series CPE.

Q. Where can I find information about the "Code Red" Worm?

A. Refer to the Cisco 600 Series "Code Red" Information.

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Related Information

- [Cisco DSL Technology Support Information](#)
- [Cisco 600 Series DSL CPEs Product Support Page](#)
- [Cisco DSL Product Support Information](#)
- [IOS Router Software Download Center \(registered customers only\)](#)
- [Cisco 600 DSL Series CPE Software Center \(registered customers only\)](#)
- [Technical Support – Cisco Systems](#)

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