

Loading Cisco IOS Software for the Cisco 806, 826, 827, 828, and

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Upgrading Cisco IOS Software for the Cisco 806, 826, 827, 828, and SOHO70 Routers

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Introduction

This document contains a step-by-step procedure for upgrading your Cisco 806, 826, 827, 828, and SOHO70 routers. This procedure erases the existing Cisco IOS® Software image in Flash and replaces it with the new Cisco IOS software image from a Trivial File Transfer Protocol (TFTP) server.

A TFTP server or a remote copy protocol (RCP) server application must be installed on a TCP/IP ready workstation. After the application is installed, a minimal level of configuration must be performed. First, the TFTP application must be configured to operate as a TFTP server, not as a TFTP client. Second, the outbound file directory must be specified. This is the directory in which the Cisco IOS software images are stored. Most TFTP applications provide a setup routine to assist in these configuration tasks.

Before You Begin

Conventions

For more information on document conventions, see the Cisco Technical Tips Conventions.

Prerequisites

There are no specific prerequisites for this document.

Components Used

This document is not restricted to specific software and hardware versions.

The information presented in this document was created from devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If you are working in a live network, ensure that you understand the potential impact of any command before using it.

Upgrading the Cisco IOS Software Image

Important: You must have a valid Cisco IOS software image on your router. Make sure the image supports your hardware and software features, and that your router has enough memory to run the image. If you do not yet have a Cisco IOS software image, or if you are not sure the image you have meets all the requirements, see How to Choose a Cisco IOS Software Release.

1. Download the Cisco IOS software image to your workstation or PC.

You can download the image from the Software Center. See the Hardware and Software section of the Cisco Technical Support – DSL page for a link to the Software Center.

2. Install the new Cisco IOS software image in the outbound directory of the TFTP server.

The TFTP server looks for the router's Cisco IOS software image in this directory. Make sure that the image you want to copy to your Flash is in this directory.

Memory requirements for each image are also in the outbound directory of the TFTP server. Using the **show version** command, verify that you have enough memory.

```
Router# show version
Cisco Internetwork Operating System Software
IOS (tm) C827-4V Software (C827V-Y6-M), Version 12.1(1)XB, EARLY DEPLOYMENT RELE
ASE SOFTWARE (fc1)
Copyright (c) 1986-2000 by cisco Systems, Inc.
Compiled Mon 10-Apr-00 13:45 by phanguye
Image text-base: 0x80013170, data-base: 0x8067D780

ROM: System Bootstrap, Version 12.1(1r)XB1, RELEASE SOFTWARE (fc1)

Router uptime is 0 minutes
System returned to ROM by reload
System image file is "flash:c827v-y6-mz.121-1.XB"

CISCO C827-4V (MPC855T) processor (revision 0x502) with 15360K/1024K bytes of memory
Processor board ID JAD043100FS (1979977378), with hardware revision 1987
CPU rev number 5
Bridging software.
4 POTS Ports
1 Ethernet/IEEE 802.3 interface(s)
1 ATM network interface(s)
128K bytes of non-volatile configuration memory.
8192K bytes of processor board System flash (Read/Write)

Configuration register is 0x2102
```

3. Establish a console session to the router.

This can be done with a direct console connection or a virtual Telnet connection. A direct console connection is preferred because a Telnet connection is lost during the reboot phase of the software installation (see step 8). The console connection is made with a rolled cable (flat black or blue cable), and connects the console port of the router to the COM–port of the PC.

Launch HyperTerminal on the PC, and use the following settings:

- ◆ 9600 bits per second
- ◆ 8 data bits
- ◆ 0 parity bits
- ◆ 1 stop bit
- ◆ No Flow Control

4. Verify that the TFTP server has IP connectivity to the router.

The TFTP server must have a network connection to the router and must be able to ping the IP address of the router targeted for a TFTP software upgrade. To achieve this, the router interface and the TFTP server must have:


```

Router# copy tftp flash
Address or name of remote host []? 10.1.1.1
Source filename []? c827v-y6-mz.121-1.XB
Destination filename [c827v-y6-mz.121-1.XB]?
%Warning:There is a file already existing with this name
Do you want to over write? [confirm]
Accessing tftp://10.1.1.1/c827v-y6-mz.121-1.XB...
Erase flash: before copying? [confirm]
Erasing the flash filesystem will remove all files! Continue? [confirm]
Erasing device... eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee
ee ...erased
Erase of flash: complete
Loading c827v-y6-mz.121-1.XB from 10.1.1.1 (via Ethernet0): !!!!!!!!!!!!!!!!!!!!!!!
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!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!
[OK - 3802992/7605248 bytes]

Verifying checksum... OK (0x1ABC)
3802992 bytes copied in 58.236 secs (65568 bytes/sec)
Router#

```

10. Confirm the router upgrade by issuing the following command:

```
Router>show flash
```

Make sure the Cisco IOS software image name in the **show flash** command output is the name of the upgrade image.

11. Reload the router to make it boot from the new Cisco IOS software image.

```
Router#reload
```

12. Confirm that the router booted from the new Cisco IOS software image by issuing a **show version** command.

```
Router#show version
```

The output from the **show version** command should show the name of the upgraded Cisco IOS software image.

Related Information

- [Cisco DSL Product Support Information](#)
- [Technical Support – Cisco Systems](#)

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