Installing Software on the Cisco 600 Series Via Serial Download

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Introduction

This document describes the procedure for erasing the router image and performing a serial download on the Cisco 600 series platform.

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.

Step−by−Step Serial Download

In this section, you are presented with the information to configure the features described in this document.

Step−by−Step Instructions

Make sure the Cisco Broadband Operating System (CBOS) image file you download contains "nsrouter" in the name.

1. Download the CBOS image for the platform you wish to upgrade from the Cisco Software Center Access Software (registered customers only) page.
2. Enter ROMmon mode.

    a. Connect your PC to the console port of the router using a Cisco 600 series management cable. For more information, refer to Making a Management Cable for the Cisco 600 Series CPE.
    b. Set your terminal access program (such as HyperTerminal in Windows) to the following settings:

        ◊ Baud rate: 38400 bps recommended (standard 9600 bps is possible)
        ◊ Data bits: 8
        ◊ Parity: None
        ◊ Stop bits: 1
        ◊ Flow control: None

    c. Power cycle the Cisco DSL modem by disconnecting the power at the back of the device.
    d. When you see the Hello! prompt, immediately type **Ctrl−C**.

   You are now in ROMmon mode.An example of the ROMmon prompt is **=>**.
3. Erase sectors 0 through 5, as shown in the following example:

```
=>es 0
Erasing sector 00000000...
Sector erased
=>es 1
Erasing sector 00000001...
Sector erased
=>es 2
Erasing sector 00000002...
Sector erased
=>es 3
Erasing sector 00000003...
Sector erased
=>es 4
Erasing sector 00000004...
Sector erased
=>es 5
Erasing sector 00000005...
Sector erased
```

4. Download the DSL modem image file from your PC using a terminal access program that supports Xmodem.

    a. Type **df 10008000** at the ROMmon prompt to notify the DSL modem that the download process is about to start.
    b. When you see CCCCCCCCC scrolling across the screen, navigate to **Transfer** in HyperTeminal and select **Send File**.
    c. Choose the filename of the CBOS image you downloaded to your PC and select **Xmodem** as the transfer protocol.
    d. Click **Send**.

   A new window opens showing the transfer status.
5. When the download is complete, write down the number of bytes transferred (for example 00fda80), as shown in the following example:

```
=>df 10008000
Downloading
CCCCCCCCC
<< user downloads CBOS image file via Xmodem >>
 -- Download complete --
    Transferred 000fda80 bytes
```

6. Program the Flash.

To program the area of memory of a 6xx DSL modem (not 62x) to Flash, type **pb 10008000 fee00000 <size>**, where size is the number of bytes you wrote down in step 5. The following is an example of the syntax:

```
=>pb 10008000 fee00000 000fda80
Programming flash address 00000000 from 10008000...
Flash programmed
```

Note: The syntax.to program the Flash on Cisco 62x routers is slightly different. The following is an example of the syntax for a Cisco 62x router:

```
=>pb 10008000 fef00000 000fda80
Programming flash address 00000000 from 10008000...
Flash programmed
```

7. Exit monitor mode and reboot the router.

```
=>m0
=>rb
```

Syntax for the Complete Step−by−Step Serial Download

Following is the syntax for the serial download session:

```
---
Hello!


Ron960 User Interface: Build  108 (Oct 21 1998 16:51:33)
NetSpeed HomeRunner(TM); i960 JX; JA step number 03
Copyright 1997 NetSpeed Corporation
Copyright 1998 Cisco Systems
=>
=>
=>es 0
Erasing sector 00000000...
Sector erased
=>es 1
Erasing sector 00000001...
Sector erased
=>es 2
Erasing sector 00000002...
Sector erased
=>es 3
Erasing sector 00000003...
Sector erased
=>es 4
Erasing sector 00000004...
Sector erased
=>es 5
Erasing sector 00000005...
Sector erased
=>
=>df 10008000
Downloading
CCCCCCCCC
<< user downloads nsrouter router image file via Xmodem from Hyperteminal>>
 -- Download complete --
    Transferred 000fda80 bytes

=>pb 10008000 fee00000 000fda80
Programming flash address 00000000 from 10008000...
Flash programmed
```

```
=>m0
=>rb

Hello!
CBOS v2.0.1.01
---
```

Verify

There is currently no verification procedure available for this configuration.

Troubleshoot

There is currently no specific troubleshooting information available for this configuration.

Related Information

- **Cisco DSL Technology Support Information**
- **Cisco DSL Product Support Information**
- **Technical Support − Cisco Systems**

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