

Upgrading Cisco IOS Software for the Cisco 6015/6130/6160/6260 NI-2 DSLAM

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Introduction

This document contains a step-by-step procedure for upgrading your Cisco NI-2 DSLAM. A TFTP server or a remote copy protocol (RCP) server application must be installed on a TCP/IP ready workstation. Once 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.

Upgrading the Cisco IOS Software Image

Use the following procedure to upgrade the Cisco IOS Software image.

1. Install the new Cisco IOS Software image in the outbound directory of the TFTP server.

The TFTP server looks for the DSLAM'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.

```

DSLAM#show version
Cisco Internetwork Operating System Software
IOS (tm) NI2 Software (NI2-DSL-M), Version 12.1(5)DA, EARLY DEPLOYMENT RELEASE SOFTW
Copyright (c) 1986-2000 by cisco Systems, Inc.
Compiled Thu 07-Dec-00 19:27 by pnicosia
Image text-base: 0x800082C0, data-base: 0x811EA000
ROM: System Bootstrap, Version 12.0(5)DA, EARLY DEPLOYMENT RELEASE SOFTWARE (fc1)
BOOTFLASH: NI2 Software (NI2-DBOOT-M), Version 12.1(3)DA, EARLY DEPLOYMENT RELEASE S
6130A uptime is 1 day, 18 hours, 19 minutes
System returned to ROM by power-on
System restarted at 16:11:23 PST Wed Feb 14 2001
System image file is "flash:ni2-dsl-mz.121-5.DA.bin"
cisco 6130 (NI2) processor with 60416K/5120K bytes of memory.
RC64475 CPU at 100Mhz, Implementation 48, Rev 0.0
Bridging software.
1 Ethernet/IEEE 802.3 interface(s)
4 ATM network interface(s)
522232 bytes of non-volatile configuration memory.
4096K bytes of Boot Flash (Sector size 256K).
16384K bytes of Flash internal SIMM (Sector size 256K).
Configuration register is 0x2102

```

2. Establish a console session to the DSLAM.

This can be done with a direct console connection or a virtual Telnet connection. A direct console connection is preferred because a Telnet connection will be lost during the reboot phase of the software installation (see step 9). The console connection is made with a rolled cable (flat black or blue cable), and connects the console port of the DSLAM to the COM-port of the PC.

3. Launch **HyperTerminal** on the PC and use the following settings:

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

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

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

- ◆ an IP address in the same range OR;
- ◆ a default gateway configured.

To verify, check the IP address of the TFTP server.

Note: After you verify network connectivity with your TFTP server, write all the changes to memory by issuing a **write memory** command on the DSLAM.

```

DSLAM#write memory
Building configuration...
[OK]
DSLAM#

```

5. Verify that the bootflash image is either **ni2-dboot-mz.121-5.da1** or **ni2-dboot-mz.121-4.da**. If it is, go to step 14. If it is not, go to step 6 to make room in the bootflash.

```

DSLAM#dir bootflash:
Directory of bootflash:/

1  -rw-      3361208   Jan 01 2000 00:05:11  ni2-dboot-mz.121-2.DA

3801088 bytes total (439752 bytes free)

```


DSLAM#**show version**

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

Related Information

- **Switches Product Support**
 - **Technical Support & Documentation – Cisco Systems**
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