Upgrading OmniSwitch 9000 Series Switches to 6.4.2.R01

Overview

This instruction sheet documents how to upgrade OmniSwitch 9000 Series Switches to 6.4.2.R01 software and firmware. The upgrade can be performed using the CLI, WebView, or SNMP. Alcatel-Lucent recommends using WebView to perform the upgrade. For upgrade instructions using the CLI, see **Upgrading with the CLI** on page 13.

Note. To downgrade a switch (e.g., 6.4.2 to 6.3.4), see **Upgrade/Downgrade Software Matrix** on page 19.

Prerequisites

This instruction sheet requires that the following conditions exist, or are performed, before upgrading:

- The switch FPGA minor revision should be 25 (0x19). If not, please perform the steps in the 'Upgrading OmniSwitch 9000 Series Switches to 6.1.3' to upgrade the FPGA to version 25 prior to upgrading to 6.4.2.
- The person performing the upgrade must:
 - be the responsible party for maintaining the switch's configuration
 - be aware of any issues that may arise from a network outage caused by improperly loading this code
 - understand that the switch must be rebooted and network users will be affected by this procedure
 - have a working knowledge of the switch to configure it to accept an FTP connection through the EMP or Network Interface (NI) Ethernet port.
- If the CLI is used, all CLI commands must be executed via a Console Port connection, not through a Telnet session. If you are performing a remote upgrade, the console port must be connected through a terminal server (via Telnet, PuTTY, etc.) in the same location as the switch you are upgrading.

Note. Do not proceed until all the above prerequisites have been met. Any deviation from these upgrade procedures will result in the malfunctioning of the switch. All steps in these procedures should be reviewed before beginning.

Upgrading with WebView

Upgrading OS9000 Series Switches to 6.4.2.R01 consists of the following steps.

- **1** Upgrading the Image Files.
- **2** Upgrading the U-Boot and Miniboot Files. If you are upgrading a 9000 Series Switch from Release 6.3.1.R01 or 6.3.4.R01, you do **not** have to upgrade the U-Boot and Miniboot files. The same U-Boot/MiniBoot files (6.3.4.265.R01) are compatible with the 6.4.2.R01 Release.

Note. If you are performing a U-Boot/Miniboot upgrade, the steps must be performed in order. You must complete the image file upgrade **before** upgrading the U-Boot and Miniboot files.

Upgrading the Image Files

Follow the steps below to upgrade the image files to 6.4.2.R01.

- 1 Download the 6.4.2.R01 upgrade files from the Alcatel-Lucent Service and Support web site to your PC.
- **2** Log into the switch through WebView. (In dual redundant configurations you must log into the primary CMM).

Note. Before proceeding with the remaining steps, make sure that the switch's Web Management Inactivity Timer is set to at least 10 minutes (default setting is 4 minutes). To view and change the setting, go to the **Session Type Parameters** page by selecting **Security** > **ASA** > **Sessions** > **Configuration**.

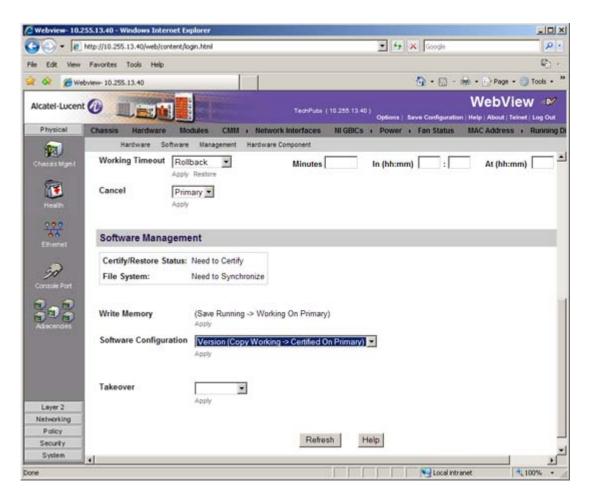
- 3 Select System > System Mgmt > Install to locate and FTP the 6.4.2.R01 image files that you downloaded in Step 1. Click on the Browse button to locate the files.
- 4 Select one of the files and click **Open**. All of the files will appear in the "Selected" area as shown below.

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5 Click on the Remove All button to move all of the files to the "Available" area; then select the following image files and click the Add button to move them back to the "Selected" area as shown below: Jadvrout.img, Jbase.img, Jeni.img, Jos.img, Jsecu.img.

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- 6 Transfer the files to the **flash/working** directory. Make sure the **Destination Directory** is **flash/working**, then click the **Transfer** button. Wait until the process is complete (indicated in the area next to the **Transfer** button - "All files have been transferred successfully").
- 7 Reload the switch from the Working Directory. In the "Install Images/Reload CMM" area, select Working in the Reload CMM From field, then click the Reload button. Click OK at the warning prompt. Wait until the process is complete.
- **8** After the CMM finishes rebooting, log into WebView.
- 9 Copy the files to the Certified Directory and sync the Primary and Secondary CMMs (if applicable). Select Physical > Chassis Mgmt > CMM > Management as shown below.



10 In the Software Configuration field, select Copy Working -> Certified on Primary for switches with a single CMM, or Copy Working -> Certified & Synchronize with Secondary for switches with a secondary CMM, then click Apply.

The switch will copy the files from the Working to the Certified Directory and synchronize the CMMs (if applicable). This command should **not** be interrupted.

Upgrading the U-Boot and Miniboot Files

Follow the steps below to upgrade the U-Boot and Miniboot files, if necessary. If you are upgrading from Release 6.4.1.R01, you do **not** have to upgrade the U-Boot and Miniboot files. The same U-Boot/Mini-Boot files are compatible with 6.4.2.R01 Release.

1 Download the applicable upgrade files from the Alcatel-Lucent Service and Support web site to your PC.

Note. A minimum U-Boot and Miniboot version of **6.3.4.265.R01** is supported for the 6.4.2.R01 upgrade. If you are upgrading a 9000 Series Switch from Release 6.3.1.R01 or 6.3.4.R01, you do **not** have to upgrade the U-Boot and Miniboot files. The same U-Boot/MiniBoot files (6.3.4.265.R01) are compatible with the 6.4.2.R01 Release.

2 Log into the switch through WebView. (In dual redundant configurations you must log into the primary CMM.)

Note. If you have not already done so, make sure that the switch's Web Management Inactivity Timer is set to at least 10 minutes (default setting is 4 minutes). To view and change the setting, go to the **Session Type Parameters** page by selecting **Security** > **ASA** > **Sessions** > **Configuration**.

- 3 Select System > System Mgmt > Install to locate and FTP the 6.4.2.R01 image files that you downloaded in Step 1. Click on the Browse button to locate the files.
- **4** Select one of the files and click **Open**. All of the files will appear in the "Selected" area as shown below.

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		Ubase.img		
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5 Click on the **Remove All** button to move all of the files to the "Available" area; then select both the **miniboot.uboot** and **u-boot.bin** files and click the **Add** button to move them to the "Selected" area as shown below.

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- 6 Transfer the files to the /flash Directory. Make sure the Destination Directory is /flash, then click the Transfer button. Wait until the process is complete (indicated in the area next to the Transfer button "All files have been transferred successfully").
- 7 In the "Update" area, click on <u>Uboot-Miniboot</u>, then click OK at the confirmation prompt. This will upgrade the Uboot and Miniboot files on all of the CMMs and the NIs. The upgrade progress is indicated in the upper right cornet of the screen. When the upgrade is complete, the following message appears: "set operation finished successfully."
- 8 Reload the switch from the Working Directory. In the "Install Images/Reload CMM" area, select **Working** from the **Reload CMM From** field, then click the **Reload** button. Click **OK** at the warning prompt. Wait until the process is complete.
- 9 After verifying that the upgrade was successful (see Verifying the Upgrade with WebView on page 10), delete the miniboot.uboot and uboot.bin files from the Flash Directory by selecting System > System Mgmt > File Management > Local, as shown below.

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10 Check the box next to the **miniboot.uboot** file, select **Delete** in the **File Operations** box, then click **OK** at the confirmation prompt. Repeat to delete the **u-boot.bin** file.

Verifying the Upgrade with WebView

Verifying the Software Upgrade

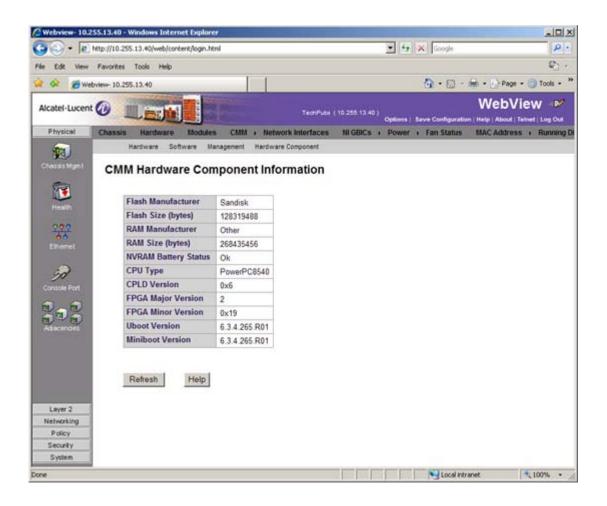
To verify that the software was successfully upgraded, go to the **Loaded Image Files** page by selecting **System** > **System Mgmt** > **Images** > **Loaded Images** as shown below.

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	6.4.2.777 R01	Jbase.img	Alcatel-Lucent Base Software	21313389			
Interfaces	6.4.2.777 R01	Jdiag.img	Alcatel-Lucent Diagnostic Software	3281240			
	6.4.2.777 R01	Jencrypt.img	Alcatel-Lucent Encryption Management	3437			
SNMP	6.4.2.777 R01	Jeni.img	Alcatel-Lucent NI software	6454557	20 - E		
	6.4.2.777 R01	Jos.img	Alcatel-Lucent OS	2034137			
9.0	6.4.2.777.R01	Jrelease img	Alcatel-Lucent Release Info Archive	3144			
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In addition, you should also select **System** > **System Mgmt** > **Images** > **Images in Certified** and **System** > **System Mgmt** > **Images** > **Images in Working** to verify that Certified and Working directories were successfully upgraded.

Verifying the U-Boot and Miniboot Upgrade

To verify that the U-Boot and Miniboot files were successfully upgraded on the CMM, go to the CMM Hardware Component Information page by selecting Physical > Chassis Mgmt > CMM > Hardware Component, as shown below.



To verify that the U-Boot file was successfully upgraded on the switch's NIs, go to the **Network Inter**faces page by selecting **Physical** > **Chassis Mgmt** > **Network Interfaces**, as shown below.

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		Г	1	Module	24	9023674	Power On	Up	Disabled	On •	Blink	51	10/100/1000	6.3.4.265.R0
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Upgrading with the CLI

Upgrading OS9000 Series Switches to 6.4.2.R01 consists of the following steps.

- **1** Upgrading the Image Files.
- **2** Upgrading the U-Boot and Miniboot Files. If you are upgrading a 9000 Series Switch from Release 6.3.1.R01 or 6.3.4.R01, you do **not** have to upgrade the U-Boot and Miniboot files. The same U-Boot/MiniBoot files (6.3.4.265.R01) are compatible with the 6.4.2.R01 Release.

Note. If you are performing a U-Boot/Miniboot upgrade, the steps must be performed in order. You must complete the image file upgrade **before** upgrading the U-Boot and Miniboot files.

Upgrading the Image Files

Follow the steps below to upgrade the image files to 6.4.2.R01.

- 1 Download the 6.4.2.R01 upgrade files from the Alcatel-Lucent Service and Support web site to your PC.
- 2 FTP the following 6.4.2.R01 image files to the /flash/working directory of the primary CMM: Jadvrout.img, Jbase.img, Jeni.img, Jos.img, Jsecu.img.
- **3** Log into the switch. In dual redundant configurations, you must log into the primary switch.
- **4** Reload the switch from the working directory.
 - -> reload working no rollback-timeout
- **5** After the switch finishes rebooting, log into the switch.
- **6** Copy the image files from the Working Directory to the Certified Directory.
 - If you have a single CMM switch enter:
 - -> copy working certified
 - If you have **redundant CMMs** enter:
 - -> copy working certified flash-synchro

The switch will copy the files from the Working to the Certified Directory and synchronize the CMMs (if applicable). This command should not be interrupted.

Upgrading the U-Boot and Miniboot Files

Follow the steps below to upgrade the U-Boot and Miniboot files, if necessary. If you are upgrading a 9000 Series Switch from Release 6.3.1.R01 or 6.3.4.R01, you do **not** have to upgrade the U-Boot and Miniboot files. The same U-Boot/MiniBoot files (6.3.4.265.R01) are compatible with the 6.4.2.R01 Release.

1 Download the applicable upgrade files from the Alcatel-Lucent Service and Support web site to your PC.

Note. A minimum U-Boot and Miniboot version of **6.3.4.265.R01** is supported for the 6.4.2.R01 upgrade. If you are upgrading a 9000 Series Switch from Release 6.3.1.R01 or 6.3.4.R01, you do **not** have to upgrade the U-Boot and Miniboot files. The same U-Boot/MiniBoot files (6.3.4.265.R01) are compatible with the 6.4.2.R01 Release.

- 2 FTP the **miniboot.uboot** and **u-boot.bin** files to the **/flash** directory on the primary CMM.
- **3** Execute the following CLI command to update the U-Boot and Miniboot files on the switch.

-> update uboot-miniboot

Sample output for "update uboot-miniboot" ->

WED AUG 19 17:29:09 : SYSTEM (75) info message: +++ ---->SSACTION_UPDATE_UBOOT_MINIBOOT WED AUG 19 17:29:09 : CSM-CHASSIS (103) info message: +++ == CSM == Update bootrom on all slots +++ == CSM == sysUpdate begin WED AUG 19 17:29:10 : FTP (82) info message: +++ Session 0 New Connection, Client Address 127.2.66.1 +++ Get /flash/u-boot.bin! +++ Session 0 Ending WED AUG 19 17:29:13 : SYSTEM (75) info message: +++ NI 1 software update started WED AUG 19 17:29:20 : SYSTEM (75) info message: +++ NI 1 software update completed -- file /flash/u-boot.bin copied WED AUG 19 17:29:26 : SYSTEM (75) info message: +++ NI 4 software update started WED AUG 19 17:29:37 : SYSTEM (75) info message: +++ NI 4 software update completed -- file /flash/u-boot.bin copied WED AUG 19 17:30:44 : CSM-CHASSIS (103) info message: +++ == CSM == sysUpdate end

+++ == CSM == timer_r:duplex---- session end ----+++ == CSM == UPDATE COMPLETED

4 When the "UPDATE COMPLETED" message appears, delete the miniboot and u-boot files from the / **flash** directory, and the reload the switch from the **working** directory:

-> reload working no rollback-timeout

The upgrade is now complete. See **Verifying the Upgrade with the CLI** on page 16 for information on verifying the upgrade.

Verifying the Upgrade with the CLI

Verifying the Software Upgrade

To verify that the software was successfully upgraded to 6.4.2.R01, use the **show microcode** command as shown below.

-> show microcode

Package	Release	Size	Description	
	+	+	+	
Jbase.img	6.4.2.777.R01	21313389	Alcatel-Lucent	Base Software
Jadvrout.img	6.4.2.777.R01	2818017	Alcatel-Lucent	Advanced Routing
Jos.img	6.4.2.777.R01	2034137	Alcatel-Lucent	OS
Jeni.img	6.4.2.777.R01	6454557	Alcatel-Lucent	NI software
Jsecu.img	6.4.2.777.R01	580643	Alcatel-Lucent	Security Management
Jencrypt.img	6.4.2.777.R01	3437	Alcatel-Lucent	Encryption Management
Jdiag.img	6.4.2.777.R01	3281240	Alcatel-Lucent	Diagnostic Software
Jrelease.img	6.4.2.777.R01	3144	Alcatel-Lucent	Release Info Archive

Verifying the U-Boot and Miniboot Upgrade

To verify that the U-Boot and Miniboot files were successfully upgraded on the CMM, use the **show** hardware info command as shown below.

```
-> show hardware info
CPU Type
                                   : Motorola MPC8540 ADS,
Flash Manufacturer
                                   : SanDisk SDCFJ-128
Flash size
                                   : 128319488 bytes (122 MB),
RAM Manufacturer
                                   : 0x00000040 - Other,
                                   : 268435456 bytes (256 MB),
RAM size
NVRAM Battery OK ?
                                   : YES,
CPLD rev
                                   : 0x6,
FPGA major rev
                                   : 0x2,
FPGA minor rev
                                   : 0x19,
                                   : 6.3.4.265.R01,
uboot Version
uboot-miniboot Version
                                   : 6.3.4.265.R01,
Backplane type
                                   : Regular mode,
```

To verify that the NI modules were successfully upgraded, use the **show ni** command as shown below.

OS9700-24,
C24 10/100/1000,
902367-90,
C15,
G25Q0772,
JUN 28 2006,
,
POWER ON,
UP,
51,
0xd872,
Motorola MPC8540 ADS,
00:d0:95:ec:d1:c8,
BCM56504_A1,
0005/00,
6.3.4.265.R01,
No Miniboot,
n/a
n/a
n/a OS9700-U24,
n/a OS9700-U24, U24 1000,
n/a OS9700-U24, U24 1000, 902370-10,
n/a OS9700-U24, U24 1000, 902370-10, C13,
n/a OS9700-U24, U24 1000, 902370-10, C13, G0410042,
n/a OS9700-U24, U24 1000, 902370-10, C13, G0410042, FEB 23 2006,
n/a OS9700-U24, U24 1000, 902370-10, C13, G0410042, FEB 23 2006, ,

Power Control Checksum:	0xb156,
CPU Model Type :	Motorola MPC8540 ADS,
MAC Address:	00:d0:95:e1:6e:7a,
ASIC - Physical 1:	BCM56504_A1,
FPGA - Physical 1:	0005/B9,
UBOOT Version :	6.3.4.265.R01,
UBOOT-miniboot Version :	No Miniboot,
POE SW Version :	n/a

Upgrade/Downgrade Software Matrix

Refer to the matrix below for software compatibility when upgrading/downgrading a 9000 Series Switch to/from Build 6.4.2.R01. For more information, contact Customer Support.

I = Image Files

F= U-Boot/Miniboot

Yes = You can upgrade/downgrade to the next build.

No = You cannot upgrade/downgrade to the next build.

N/A = Not applicable. Build not supported on the model.

	Upgrade/Downgrade Matrix 6.4.2.R01 GA								
I = 6.4.2.R01 GA									
	F = 6.3.4.265.R01								
	Build and Supported Software Versions for Each Upgrade								
	6.1.3 GA	6.1.5 GA	6.3.1.R01 GA	6.3.4.R01 GA					
	I = 6.1.3.R01 GA	I = 6.1.5.R01 GA	I = 6.3.1.R01 GA	I = 6.3.4.R01 GA					
Model	F = 6.1.3.167.R02 F = 6.1.5.354.R02 F = 6.1.5.479.R01 F = 6.3.4.265.R0								
9600	No Yes Yes Yes								
9700	Yes Yes Yes Yes								
9800	No	Yes	Yes	Yes					

Note. Hardware is only backward compatible down to the software that originally supported it. For example, you cannot run a 9800 Series Switch with 6.1.1.R01 software; however, you could run it with 6.1.3.R01 software. Also, when downgrading, make sure to load the applicable U-Boot/Miniboot files. For more information, contact Customer Support.



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