Upgrading OmniSwitch 9000 Series Switches to 6.4.3.R01

Overview

This instruction sheet documents how to upgrade OmniSwitch 9000 Series Switches to 6.4.3.R01 software and firmware. The upgrade can be performed using the CLI or WebView. Alcatel-Lucent recommends using WebView to perform the upgrade. For upgrade instructions using the CLI, see **Upgrading** with the CLI on page 12.

Note. These instructions can be used to upgrade a 9000 Series Switch from builds 6.3.4.R01 and later. To upgrade from an older build (e.g., 6.3.1.R01), Contact Customer Support. See **Upgrade/Downgrade Software Matrix** on page 17 for more information.

Prerequisites

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

- 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 6.4.3.R01 consists of the following steps. 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.

- **1** Upgrading the Image Files.
- **2** Upgrading the U-Boot and Miniboot Files. If you are upgrading a 9000 Series Switch from Release 6.3.4.R01 or 6.4.2.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 6.4.3.R01 Release.

Note. To use the USB Feature, you must upgrade to U-Boot/Miniboot version 6.4.3.479.R01.

Upgrading the Image Files

Follow the steps below to upgrade the image files to 6.4.3.R01.

- 1 Download the 6.4.3.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 6.4.3.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. A minimum U-Boot and Miniboot version of **6.3.4.265.R01** is required for the 6.4.3.R01 upgrade. If you are upgrading a 9000 Series Switch from Release 6.3.4.R01 or 6.4.2.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 6.4.3.R01 Release.

Note. To use the USB Feature, you must upgrade to U-Boot/Miniboot version 6.4.3.479.R01.

- 1 Download the applicable upgrade files from the Alcatel-Lucent Service and Support website to your PC.
- **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 6.4.3.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.



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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-			- Miniboot	
System Mgnt			- Uboot-Miniboot	
	Destination Directory: Mash/v	rorking/	- FPGA	
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		<u>*</u>	Upgrade	
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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 8), 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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		working	2048	Read/Write	Aug 14 10 53	1	Make Read-Only	Make Read-Only	
intertaces		network	2048	Read/Write	Apr 8 2008	÷	Make Writeable	Make Writeable	
		switch	2048	Read/Write	Aug 14 10:54		Delete Files With Same Extension	Move	
		swipg1.ipg	500000	Read/Write	Aug 6 12:07			Recursive Copy	
-		random-seed	256	Read/Write	Aug 14 10 54			Recursive Delete	
		swieg2.log	500000	Read/Write	Aug 19 16:14		Archive Operations		
0.0		u-boot.bin	524288	Read/Write	Mar 6 13:00		Backup		
03		test5	4344	Read/Write	Apr 11 2008		Restore TFTP Operations		
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1	F	miniboot.uboot	974284	Read/Write	Mar 6 13:00				
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		cs_system1.pmd	1389460	Read/Write	Apr 23 15:40				
	E	cs_system2.pmd	1382149	Read/Write	May 8 14:35				
		asc 1.snap	210	Read/Write	Apr 28 15:30				
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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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Interfaces	6.4.3.518.R01	Jbase.img	Alcatel-Lucent Base Software	21797250	-		
	6.4.3.518.R01	Jeni.img	Alcatel-Lucent NI software	6497169			
22	6.4.3.518.R01	Jos.img	Alcatel-Lucent OS	2151786			
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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.

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(m)	Hardware Software Mr	nagement Hardwar	e Component					
320								
Chasas Mgmt	CMM Hardware Con	nponent Info	rmation					
500								
1	Flash Manufacturer	Sandisk						
Health	Flash Size (bytes)	128319488						
222	RAM Manufacturer	Other						
0.0	RAM Size (bytes)	268435456						
LINGICI	NVRAM Battery Status	Ok						
2	CPU Type	PowerPC8540						
Comarke Dout	CPLD Version	0x6						
	FPGA Major Version	2						
	FPGA Minor Version	0x19						
	Uboot Version	6.3.4.265 R01						
Street Black	Miniboot Version	6 3 4 265 R01						

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	2	Module	OS9700- U24	902370- 10	Power On	Up	Disabled	Green On •	Green Blink	55	U24 1000	6.3.4.265.F
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Upgrading with the CLI

Upgrading OS9000 Series Switches to 6.4.3.R01 consists of the following steps. 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.

- **1** Upgrading the Image Files.
- **2** Upgrading the U-Boot and Miniboot Files. If you are upgrading a 9000 Series Switch from Release 6.3.4.R01 or 6.4.2.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 6.4.3.R01 Release.

Note. To use the USB Feature, you must upgrade to U-Boot/Miniboot version 6.4.3.479.R01.

Upgrading the Image Files

Follow the steps below to upgrade the image files to 6.4.3.R01.

- 1 Download the 6.4.3.R01 upgrade files from the Alcatel-Lucent Service and Support web site to your PC.
- 2 FTP the following 6.4.3.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. A minimum U-Boot and Miniboot version of **6.3.4.265.R01** is required for the 6.4.3.R01 upgrade. If you are upgrading a 9000 Series Switch from Release 6.3.4.R01 or 6.4.2.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 6.4.3.R01 Release.

Note. To use the USB Feature, you must upgrade to U-Boot/Miniboot version 6.4.3.479.R01.

- 1 Download the applicable upgrade files from the Alcatel-Lucent Service and Support web site to your PC.
- 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 APR 7 17:29:09 : SYSTEM (75) info message:

+++ ---->SSACTION_UPDATE_UBOOT_MINIBOOT

WED APR 7 17:29:09 : CSM-CHASSIS (103) info message:

+++ == CSM == Update bootrom on all slots

- +++ == CSM == sysUpdate begin
- WED APR 7 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 APR 7 17:29:13 : SYSTEM (75) info message:

- +++ NI 1 software update started
- WED APR 7 17:29:20 : SYSTEM (75) info message:

```
+++ NI 1 software update completed -- file /flash/u-boot.bin copied
```

WED APR 7 17:29:26 : SYSTEM (75) info message:

+++ NI 4 software update started

WED APR 7 17:29:37 : SYSTEM (75) info message:

+++ NI 4 software update completed -- file /flash/u-boot.bin copied

WED APR 7 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 below 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 6.4.3.R01, use the **show microcode** command as shown below.

```
-> show microcode
```

. .

Package	Release	Size	Description
Jbase.img	6.4.3.518.R01	21313389	Alcatel-Lucent Base Software
Jadvrout.img	6.4.3.518.R01	2818017	Alcatel-Lucent Advanced Routing
Jos.img	6.4.3.518.R01	2034137	Alcatel-Lucent OS
Jeni.img	6.4.3.518.R01	6454557	Alcatel-Lucent NI software
Jsecu.img	6.4.3.518.R01	580643	Alcatel-Lucent Security Management

Verifying the U-Boot and Miniboot Upgrade

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

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

Backplane type

: Regular mode,

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

-> show	ni
---------	----

Module in slot 1

	Model Name:	OS9700-24,
	Description:	C24 10/100/1000,
	Part Number:	902367-90,
	Hardware Revision:	C15,
	Serial Number:	G25Q0772,
	Manufacture Date:	JUN 28 2006,
	Firmware Version:	,
	Admin Status:	POWER ON,
	Operational Status:	UP,
	Power Consumption:	51,
	Power Control Checksum:	0xd872,
	CPU Model Type :	Motorola MPC8540 ADS,
	MAC Address:	00:d0:95:ec:d1:c8,
	ASIC - Physical 1:	BCM56504_A1,
	FPGA - Physical 1:	0005/00,
	UBOOT Version :	6.3.4.265.R01,
	UBOOT-miniboot Version :	No Miniboot,
	UBOOT-miniboot Version : POE SW Version :	No Miniboot, n/a
М	UBOOT-miniboot Version : POE SW Version : odule in slot 2	No Miniboot, n/a
М	UBOOT-miniboot Version : POE SW Version : odule in slot 2 Model Name:	No Miniboot, n/a OS9700-U24,
М	UBOOT-miniboot Version : POE SW Version : odule in slot 2 Model Name: Description:	No Miniboot, n/a OS9700-U24, U24 1000,
М	UBOOT-miniboot Version : POE SW Version : odule in slot 2 Model Name: Description: Part Number:	No Miniboot, n/a OS9700-U24, U24 1000, 902370-10,
М	UBOOT-miniboot Version : POE SW Version : odule in slot 2 Model Name: Description: Part Number: Hardware Revision:	No Miniboot, n/a OS9700-U24, U24 1000, 902370-10, C13,
М	UBOOT-miniboot Version : POE SW Version : odule in slot 2 Model Name: Description: Part Number: Hardware Revision: Serial Number:	No Miniboot, n/a OS9700-U24, U24 1000, 902370-10, C13, G0410042,
М	UBOOT-miniboot Version : POE SW Version : odule in slot 2 Model Name: Description: Part Number: Hardware Revision: Serial Number: Manufacture Date:	No Miniboot, n/a OS9700-U24, U24 1000, 902370-10, C13, G0410042, FEB 23 2006,
м	UBOOT-miniboot Version : POE SW Version : odule in slot 2 Model Name: Description: Part Number: Hardware Revision: Serial Number: Manufacture Date: Firmware Version:	No Miniboot, n/a OS9700-U24, U24 1000, 902370-10, C13, G0410042, FEB 23 2006, ,
м	UBOOT-miniboot Version : POE SW Version : odule in slot 2 Model Name: Description: Part Number: Hardware Revision: Serial Number: Manufacture Date: Firmware Version: Admin Status:	No Miniboot, n/a OS9700-U24, U24 1000, 902370-10, C13, G0410042, FEB 23 2006, , POWER ON,

Power Consumption:	55,
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 6.4.3.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 6.4.3.R01 GA					
I = 6.4.3.R01 GA					
F = 6.3.4.265.R01 Build and Supported Software Versions For Fach Upgrade					
	6.1.3 GA	6.1.5 GA	6.3.1 GA	6.3.4 GA	6.4.2 GA
	l = 6.1.3.R01 GA	I = 6.1.5.R01 GA	l = 6.3.1.R01 GA	I = 6.3.4.R01 GA	I = 6.4.2.R01 GA
Model	F = 6.1.3.167.R02	F = 6.1.5.354.R02	F = 6.1.3.479.R01	F = 6.3.4.265.R01	F = 6.3.4.265.R01
9600	No	Contact Support	Contact Support	Yes	Yes
9700	Contact Support	Contact Support	Contact Support	Yes	Yes
9800	No	Contact Support	Contact Support	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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