# Upgrading OmniSwitch 7700/7800/8800 to 5.1.5.R01

## **Overview**

This instruction sheet documents how to upgrade OmniSwitch 7700 CMM (OS7700-CMM), OmniSwitch 7800 CMM (OS7800-CMM), and OmniSwitch 8800 CMM (OS8800-CMM) modules to 5.1.5.R01 software and firmware.

WARNING. Failure to follow the steps correctly can permanently damage CMM hardware.

This instruction sheet only applies to users upgrading to 5.1.5.R01. Do not use this instruction sheet for upgrades on later builds.

# **Upgrade Steps**

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

Perform the following steps:

1 On OmniSwitch 7700 and 7800 switches use WebView (see Verifying the Upgrade with WebView on page 15) or use the show hardware info and the show microcode commands (see Verifying the Upgrade with the CLI on page 21) to verify that the MiniBoot/BootROM version is 5.1.5.340.R01 and the software version is 5.1.5.R01. If so, do *not* perform these instructions. If not, continue to the next step.

On OmniSwitch 8800 switches use WebView (see Verifying the Upgrade with WebView on page 15) or use the show hardware info and the show microcode commands (see Verifying the Upgrade with the CLI on page 21) to verify that the MiniBoot/BootROM version is 5.1.5.340.R01 and the software version is 5.1.5.R01. If so, do *not* perform these instructions. If not, continue to the next step.

- 2 On OmniSwitch 7700, 7800, and 8800 switches if the software version is not 5.1.5.R01 perform the steps described in Upgrading the Image Files with WebView on page 4 or Upgrading the Image Files with the CLI on page 17.
- On OmniSwitch 7700, 7800, and 8800 switches if the MiniBoot/BootROM version is not 5.1.5.340.R01 perform the steps described in Updating the MiniBoot/BootROM with WebView on page 8 or Updating the MiniBoot/BootROM with the CLI on page 19.

# **Prerequisites**

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

- Make sure the primary and secondary (if present) CMM's **boot.cfg** file contains the CLI command **aaa authentication default local**. Use the **show configuration snapshot aaa** command to determine if this command is present.
- All CLI commands must be executed via a Console Port connection, not through a Telnet session. If you are performing a remote upgrade, then the console port must be connected through a terminal server (via Telnet, PuTTY, etc.) in the same location as the switch you are upgrading.
- Alcatel recommends that you have at least 2.5 MB (preferably 3 MB) of free space in /flash memory on OmniSwitch 7700/7800 switches and at least 3.5 MB (preferably 4 MB) of free space in /flash memory on OmniSwitch 8800 switches before beginning.
- The person performing the upgrade must:
  - be the responsible party for maintaining the switches' 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.

**WARNING.** Do not proceed until all the above prerequisites have been met.

# List of Topics

| See below for a list of topics in this instruction sheet. |    |
|---|----|
| Upgrading the Image Files with WebView                    | 4  |
| Updating the MiniBoot/BootROM with WebView                | 8  |
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### **Upgrading the Image Files with WebView**

Follow the steps below to upgrade the image files on OmniSwitch 7700/7800/8800 switches to Release 5.1.5.R01 with WebView. You should review all steps in this procedure before beginning.

**Caution.** Do not FTP the **miniboot.default**, **miniboot.backup**, and **bootrom.bin** files at this time. See the related sections for those instructions.

**1** FTP the 5.1.5.R01 image files to the **/flash/working** directory.

Note. If you have dual CMMs make sure you FTP the files to the primary CMM (CMM-A).

- **2** Log into WebView.
- **3** Select System > System Mgmt > Install as shown below:



4 Click the **Install** button. The following pop-up window will be displayed:



- 5 Click OK.
- 6 Select Physical > Chassis Mgmt > CMM > Management as shown below:

| 🖉 Webview- 10.:                 | 255.11.111 - Microsoft Internet Explore         |  |   |
|---------------------------------|---|--|---|
| <u> </u>                        | w F <u>a</u> vorites <u>T</u> ools <u>H</u> elp |  | 100 C   |
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| 🛛 Address 🙋 http:/              | /10.255.11.111/web/content/login.html           |  | ▼ 🖉 Go 🗍 Links ≫  |
| ALC                             |   | Falcon111 (10.255.11.111)<br>Options           | WebView - 🕬<br>Save Configuration   Help   About   Telnet   Log Out |
| Physical                        | Chassis Hardware Modules CMM                    | Network Interfaces Power MAC Address HRE       |   |
| (m)                             | Hardware Software Manageme                      | t Hardware Component                           |   |
| Chassis Mgm t                   |   |  | -   |
| <b>6</b>                        | CMM Management                                  |  |   |
| Health                          | Primary CMM:                                    | CMM-A Secondary CMM                            | : CMM-B   |
| Ethemet                         | Reboot Entire Switch                            |  | Apply   |
| Console Port                    | Reload From                                     | Working -                                      | Apply   |
| Adjacencies                     | Schedule CMM Reload                             | Primary In                                     | Apply   |
|                                 | Schedule CMM Reload                             | Primary • On yyyy mm dd At hh mm               | ss Apply  |
| Layer 2<br>Networking<br>Policy | Cancel CMM Reload                               | Primary  | Apply   |
| Security                        |   |  |   |
| System                          |   |  | <b>_</b>  |

7 In the **Reload From** box Select **Working** and Click **Apply**. The following pop-up window will be displayed:

| Microsoft Internet Explorer |  |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|--|
| ?                           | The primary CMM will be rebooted from the Working directory. Are you sure? |  |  |  |  |  |
|                             | Cancel   |  |  |  |  |  |

- 8 Click OK. The switch will now reboot to the new working version. (Wait for the command to finish executing.)
- **9** After the CMM finishes rebooting log into WebView.
- **10** Select Physical > Chassis Mgmt > CMM > Management.

11 If you have a single CMM select Copy Working -> Certified on Primary in the Software Management box as shown below:

| 🖉 Webview- 10.                  | 255.11.243 - Microsoft Internet Explore          | r   |                  |
|---------------------------------|--|---|------------------|
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| Address 🖉 http:.                | //10.255.11.243/web/content/login.html           |   | ▼ 🖉 Go 🛛 Links ≫ |
|                                 |  | FalconCmm (10.255.11.243)                       | WebView 🕬        |
| Physical                        | Chassis Hardware Modules CMM                     | Network Interfaces Power MAC Address HRE        |                  |
| (intro)                         | Hardware Software Managemen                      | t Hardware Component                            |                  |
| Chassis Mgm t                   | Schedule CMM Reload                              | Secondary V On yyyy mm dd At hh                 | nm ss            |
| Health                          | Cancel CMM Reload                                | Secondary 💌                                     | Apply            |
| Ethemet                         | Reload Working Version                           | Rollback-Timeout                                | Apply            |
| Console Port                    | Write Memory ( Save Running ->                   | Working On Primary)                             | Apply            |
| Adjacencies                     | Software Management<br>(Need to Certify)         | Copy Working -> Certified On Primary            | Apply            |
|                                 | Restore ( Copy Certified -> Workir               | ıg On Primary)                                  | Apply            |
| Layer 2<br>Networking           | Synchronize File System                          |   | Apply            |
| Policy<br>Security<br>System    | Temperature Threshold                            | 69 (° C)  | Apply            |
| phys_chs_cmm_                   | -<br>_cfg.html                                   |   |                  |

If you have dual redundant CMMs select **Copy Working -> Certified & Synchronized with Secondary** in the **Software Management** box as shown below:

| 🏉 Webview- 10.2                | 55.11.243 - Microsoft Internet Explorer         |   |                  |
|--------------------------------|---|---|------------------|
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| 🛛 Address 🙋 http://            | /10.255.11.243/web/content/login.html           |   | ▼ 🖉 Go 🗍 Links ≫ |
|                                |   | FalconCmm (10.255.11.243)<br>Options   Save Config      | WebView I        |
| Physical                       | Chassis Hardware Modules CMM                    | Network Interfaces Power MAC Address HRE                |                  |
| 1                              | Hardware Software Managemen                     | Hardware Component                                      |                  |
| Chassis Mgm t                  | Schedule CMM Reload                             | Secondary V On yyyy mm dd At hh mm ss                   | Apply            |
| Health                         | Cancel CMM Reload                               | Secondary 💌   | Apply            |
| Ethemet                        | Reload Working Version                          | Rollback-Timeout S                                      | Apply            |
| Console Port                   | Write Memory ( Save Running -> 1                | Working On Primary)                                     | Apply            |
| Adjacencies                    | Software Management<br>(Need to Certify)        | Copy Working → Certified & Synchronize with Secondary ▼ | Apply            |
|                                | Restore ( Copy Certified -> Workin              | g On Primary)   | Apply            |
| Layer 2<br>Networking          | Synchronize File System                         |   | Apply            |
| Policy<br>Security<br>System   | Temperature Threshold                           | 69 (° C)  | Apply            |
| phys_chs_cmm_c                 | :fg.html  |   |                  |

The following window will be displayed:



**12** Click **OK**. The image file upgrade is complete. See **Verifying the Software with WebView** on page 16 to confirm the upgrade.

Note. In dual redundant configurations the secondary CMM (CMM-B) will reboot.

13 If the MiniBoot and BootROM are not 5.1.5.340.R01 continue to Updating the MiniBoot/BootROM with WebView on page 8. (See Verifying the Firmware with WebView on page 15 for more information.)

If the image files are 5.1.5.R01 and the MiniBoot and BootROM are 5.1.5.340.R01 the upgrade to 5.1.5.R01 is now complete. (See Verifying the Upgrade with WebView on page 15 for more information.)

## Updating the MiniBoot/BootROM with WebView

Follow the steps below to upgrade the MiniBoot and BootROM to 5.1.5.340.R01 with WebView. Please note that Release 5.1.5.R01 image files must be installed to use the steps in this procedure. See **Upgrad-ing the Image Files with WebView** on page 4 for more information.

**WARNING.** All CMMs must be certified and in redundant configurations both CMMs must be synchronized before beginning. In addition, the switch must be running in the Working directory. Use the **show running-directory** command to confirm these conditions.

- 1 Download the **bootrom.bin**, **miniboot.backup**, and **miniboot.default** files from the Alcatel's Service and Support code directory to the /**flash** directory.
- **2** Log into WebView.
- 3 Select System > System Mgmt > File Management > Local as shown below:



- 4 Check the box next to **bootrom.bin**.
- 5 Select **Bootrom** in the **Update** box. The following confirmation window will be displayed:

| Microsoft Internet Explorer |  |  |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|--|--|
| ?                           | Are you sure you wish to update the bootrom file to 'bootrom.bin'? |  |  |  |  |  |  |
|                             | Cancel   |  |  |  |  |  |  |

- 6 Click OK.
- 7 Check the box next to **miniboot.default**.
- 8 Select Default Miniboot in the Update box. The following confirmation window will be displayed:



- 9 Click OK.
- **10** Check the box next to **miniboot.backup**.
- 11 Select Backup Miniboot in the Update box. The following confirmation window will be displayed:

| Microsoft | Internet Explorer  |
|-----------|--|
| ?         | Are you sure you wish to update the backup miniboot file to 'miniboot.backup'? |
|           | Cancel   |

12 Click OK. The MiniBoot and BootROM upgrades on CMM-A are now complete. See Verifying the Firmware with WebView on page 15 to confirm your upgrade.

**13** Select System > System Mgmt > File Management > Local as shown below:

| 🗿 Webview- 10.2               | 255.11.243 - M       | icrosoft l             | Internet Explore | ar (      |              |   |                        |                                  | _ 8 >                |
|-------------------------------|----------------------|------------------------|------------------|-----------|--------------|---|------------------------|----------------------------------|----------------------|
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| Address e http:/              | /10.255.11.243/      | veb/conte              | nt/login.html    |           |              |   |                        | <u> </u>                         | C∕GO ∐Links ·        |
| WebView 🔊                     |                      |                        |                  |           |              |   |                        |                                  |                      |
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| Physical                      | System Mgm           | : Time/I               | Date/Zone Sys    | tem Info  | File Manag   | ement Install Images                    | Switch Logging Snapsho | t                                |                      |
| Layer 2                       |                      |                        |                  |           | Local Re     | emote                                   |                        |                                  |                      |
| Policy                        | Curatar              |                        |                  |           |              |   |                        |                                  | _                    |
| Security                      | System               | ггие                   | wanage           | ment      |              |   |                        |                                  |                      |
| System                        |                      |                        |                  |           |              |   |                        |                                  |                      |
| <b>a</b>                      |                      | /f                     | lash             |           |              |   | File Operations        | Directory Operations             |                      |
|                               |                      |                        | hoot params      | 324       | ReadilArite  |   | Move                   | Refresh                          |                      |
|                               |                      |                        | boot.params      | 524       | TICOUTY THE  |   | Delete                 | Create                           |                      |
| 2a                            |                      |                        | certified        | 2048      | ReadAWrite   |   | Make Read Only         | Make Read Only                   |                      |
| AIP                           |                      |                        | working          | 2048      | ReadA/vrite  |   | Make Writeable         | Make Writeable                   |                      |
| 62.                           |                      |                        | swlog1.log       | 64000     | ReadA/vrite  |   | Delete Files With Same | Move                             |                      |
| 87                            |                      | П                      | swlog2.log       | 64000     | ReadAVrite   |   | Extension              |                                  |                      |
|                               |                      |                        | nolicy of a      | 29        | ReadilArite  |   |                        | Recursive Copy                   |                      |
| <u>o</u> 🏠                    |                      |                        | policy.org       |           | TICOUTY THE  |   |                        | Recursive Delete                 |                      |
| JQ                            |                      |                        | bootrom.bin      | 394632    | ReadAvirite  |   |                        |                                  |                      |
|                               |                      |                        | miniboot.backup  | 511096    | ReadA/vrite  |   | Update                 |                                  |                      |
| 1                             |                      | Г                      | miniboot.default | 511096    | ReadAVrite   |   | Bootrom                |                                  |                      |
|                               |                      | Г                      | network          | 2048      | ReadAWrite   |   | Backup Miniboot        |                                  |                      |
| web vie wiwight               |                      |                        | boot.cfg.1.err   | 266       | ReadA/vrite  |   |                        |                                  |                      |
| E.                            |                      |                        | switch           | 2048      | Read/Write   |   | Free space:            | 5222400 bytes                    |                      |
| System Mgmt                   |                      |                        | random-seed      | 256       | Read/Write   |   |                        |                                  |                      |
|                               |                      |                        |                  | 2.50      |              |   |                        |                                  | -                    |
| ana filoanatom m              | anagement html       |                        |                  |           |              |   |                        | See Local                        | intranet             |

- 14 Check the box next to bootrom.bin.
- 15 Select Delete in the File Operations box. The following confirmation window will be displayed:

| Microsoft Internet Explorer |  |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|--|
| ?                           | Are you sure you wish to delete 'bootrom.bin'? |  |  |  |  |  |
|                             | Cancel   |  |  |  |  |  |

16 Click OK.

- **17** Check the box next to **miniboot.backup**.
- 18 Select Delete in the File Operations box. The following confirmation window will be displayed:



- 19 Click OK.
- 20 Check the box next to miniboot.default.

21 Select Delete in the File Operations box. The following confirmation window will be displayed:



- **22** Click **OK**. If you have a switch with a single CMM and the image files are 5.1.5.R01 and the Mini-Boot and BootROM are 5.1.5.340.R01 the upgrade to 5.1.5.R01 is now complete. Otherwise, continue to Step 23 below.
- **23** Select **Physical > Chassis Mgmt > CMM > Management** as shown below:

| 🚳 Webview- 10.                          | 255.11.242 - Microsoft Internet Explorer  |  |
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|   | Falcon (10.255.11.242) Options   Save Confi                                     | WebView ∉♥<br>guration   Help   About   Telnet   Log Out |
| Physical                                | Chassis Hardware Modules CMM Network Interfaces Power MAC Address HRE           |  |
| 1                                       | Hardware Software Management Hardware Component                                 |  |
| Chassis Mgm t                           |   | <u> </u>   |
| Health                                  | Reload Working Version Rollback-Timeout   | Apply  |
| ¢ ♥ ♥<br>♦ ♦                            | Write Memory ( Save Running -> Working On Primary)                              | Apply  |
| 9 <del>7</del> 7                        | Software Management<br>(Need to Certify)  | Apply  |
| Console Port                            | Restore ( Copy Certified -> Working On Primary)                                 | Apply  |
| Adjacencies                             | Synchronize File System   | Apply  |
|   | Temperature Threshold 69 (° C)  | Apply  |
| Layer 2<br>Networking                   | Takeover  | Apply  |
| Policy<br>Security<br>System            | Refresh Help  | _  |
| phys_chs_cmm_                           | r<br>cíg.html   | Local intranet   |

24 Click Apply in the Takeover box. The following pop-up window will be displayed:

| Microso | ft Internet Explorer 🛛 🔀                      |
|---------|---|
| ?       | CMM takeover will be initiated. Are you sure? |
|         | Cancel  |

- 25 Click OK. The switch will reboot and the secondary CMM (CMM-B) will now become primary.
- **26** Download the **bootrom.bin**, **miniboot.backup**, and **miniboot.default** files from the Alcatel's Service and Support code directory to the /**flash** directory of CMM-B (the current primary).

27 Select System > System Mgmt > File Management > Local as shown below:

| 🕯 Webview- 10.2               | 255.11.243 - Mi               | crosoft l     | Internet Explore | :r       |                     |                      |                          |                                     | _ 8                 |
|-------------------------------|-------------------------------|---------------|------------------|----------|---------------------|----------------------|--------------------------|-------------------------------------|---------------------|
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| Back Form                     | vard Stop                     | 🕼<br>Refresh  | Home Sea         | ) 🖹      | 1 🦪<br>ites History | Mail Print           |                          |                                     |                     |
| Address 🛃 http:/              | /10.255.11.243/w              | eb/conte      | nt/login.html    |          |                     |                      |                          |                                     | ∂Go ∐Links          |
|                               | TEL                           | 111           |                  | Y.       |                     |                      |                          | Web                                 | View 🗉              |
| ARCHITECTS OF AN              |                               | H             | E                |          |                     | FalconCmm (10        | 0.255.11.243 )<br>Option | s   Save Configuration   Help   Abo | ut   Telnet   Log ( |
| Physical                      | System Mgmt                   | Time/I        | Date/Zone Sys    | tem Info | File Manag          | ement Install Images | Switch Logging Snapsh    | iot                                 |                     |
| Layer 2                       |                               |               |                  |          | Local Re            | mote                 |                          |                                     |                     |
| Networking                    |                               |               |                  |          |                     |                      |                          |                                     |                     |
| Security                      | System                        | n File        | Manage           | ment     |                     |                      |                          |                                     |                     |
| System                        |                               |               |                  |          |                     |                      |                          |                                     | _                   |
| <u></u>                       |                               | æ             | 1                |          |                     |                      | File Operations          | Directory Operations                |                     |
|                               |                               | п             | lasn             |          |                     |                      | Move                     | Refresh                             |                     |
| Interfaces                    |                               |               | boot.params      | 324      | Read/Write          |                      | Delete                   | Create                              |                     |
|                               |                               |               | certified        | 2048     | ReadAWrite          |                      | Сору                     | Delete                              |                     |
|                               |                               |               | working          | 2048     | ReadAWrite          |                      | Make Read-Only           | Make Read-Only                      |                     |
|                               |                               | -             | swigat ioa       | 64000    | ReadiMite           |                      | Make Writeable           | Make Writeable                      |                     |
| ي 🖞 🗉                         |                               |               | Swidgr idg       | 04000    | TICOUTY THE         |                      | Extension                | Move                                |                     |
| SNMP                          |                               |               | swlog2.log       | 64000    | ReadAvirite         |                      |                          | Recursive Copy                      |                     |
|                               |                               |               | policy.cfg       | 29       | ReadA/vrite         |                      |                          | Recursive Delete                    |                     |
| 28                            |                               | Г             | bootrom.bin      | 394632   | ReadAVrite          |                      |                          |                                     |                     |
| RMON                          |                               | -             | miniboot.backun  | 511096   | ReadAWrite          |                      | Update                   |                                     |                     |
| _                             |                               |               |                  | 51100/   | 5                   |                      | Bootrom                  |                                     |                     |
|                               |                               |               | minipoot.default | 211030   | read/Write          |                      | Default Miniboot         |                                     |                     |
| WebViewMgmt                   |                               |               | network          | 2048     | ReadA/Vrite         |                      | Backup Miniboot          |                                     |                     |
|                               |                               |               | boot.cfg.1.err   | 266      | ReadA/vrite         |                      |                          |                                     |                     |
| 백                             |                               |               | switch           | 2048     | Read/Write          |                      | Free space:              | 5222400 bytes                       |                     |
| System Mgmt                   |                               |               | random-seed      | 256      | ReadAWrite          |                      |                          |                                     |                     |
|                               |                               |               |                  |          |                     |                      |                          | (m)                                 | • • •               |

- **28** Check the box next to **bootrom.bin**.
- **29** Select **Bootrom** in the **Update** box. The following confirmation window will be displayed:



30 Click OK.

- **31** Check the box next to **miniboot.default**.
- 32 Select Default Miniboot in the Update box. The following confirmation window will be displayed:

| Microsoft Internet Explorer 🛛 🔀 |  |  |  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|--|
| ?                               | Are you sure you wish to update the default miniboot file to 'miniboot.default'? |  |  |  |  |  |  |  |
|                                 | Cancel   |  |  |  |  |  |  |  |

- 33 Click OK.
- **34** Check the box next to **miniboot.backup**.

35 Select Backup Miniboot in the Update box. The following confirmation window will be displayed:



- **36** Click **OK**. The MiniBoot and BootROM upgrades on CMM-B are now complete. See **Verifying the Firmware with WebView** on page 15 to confirm your upgrade.
- **37** Select System > System Mgmt > File Management > Local as shown below:

| 💐 Webview- 10.2               | 255.11.243 - Mi        | crosoft        | Internet Explore | r         |               |                     |          |                        |                                 | (đ                |
|-------------------------------|------------------------|----------------|------------------|-----------|---------------|---------------------|----------|------------------------|---------------------------------|-------------------|
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| (÷ , =                        | ) , 🛞                  | \$             |                  | <u>)</u>  | 1 3           | <b>B</b> - <b>4</b> | i i      |                        |                                 |                   |
| Back Forw                     | vard Stop              | Refresh        | Home Sea         | arch Favo | rites History | Mail Prin           | t        |                        |                                 | - ∂Go Link        |
| igenees   El maps             | 710.200.11.24074       | CONCORNE       | shologinthani    | N :       |               |                     |          |                        |                                 | (, do )           |
| WebView 🕑                     |                        |                |                  |           |               |                     |          |                        |                                 |                   |
| ARCHITECTS OF AN              |                        |                |                  |           |               |                     |          | Options                | Save Configuration   Help   Abo | ut   Telnet   Log |
| Physical                      | System Mgmt            | Time/          | Date/Zone Sys    | tem Info  | File Manag    | ement Install I     | mages Sv | vitch Logging Snapsho  | t                               |                   |
| Layer 2<br>Networking         |                        |                |                  |           | Local Re      | ernote              |          |                        |                                 |                   |
| Policy                        | Custom                 |                | Managa           |           |               |                     |          |                        |                                 |                   |
| Security                      | System                 | ггие           | e wanage         | ment      |               |                     |          |                        |                                 |                   |
| System                        |                        |                |                  |           |               |                     |          | <b>F</b> 1 <b>0</b>    | D'                              |                   |
| ា                             |                        | H              | lash             |           |               |                     |          | File Operations        | Directory Operations            |                   |
| Interfaces                    |                        |                | boot params      | 324       | Read/Write    |                     |          | Move<br>Delete         | Retresh                         |                   |
|                               |                        |                |                  | 2040      | 5             |                     |          | Conv                   | Delete                          |                   |
| 20                            |                        |                | certified        | 2048      | Read/write    |                     |          | Make Read-Only         | Make Read-Only                  |                   |
| AIP                           |                        |                | working          | 2048      | ReadAWrite    |                     |          | Make Writeable         | Make Writeable                  |                   |
| 62.                           |                        |                | swlog1.log       | 64000     | ReadAVrite    |                     |          | Delete Files With Same | Move                            |                   |
|                               |                        |                | swlog2.log       | 64000     | ReadAWrite    |                     |          | Extension              |                                 |                   |
| SNMP                          |                        |                | nolicy cfa       | 29        | ReadiAirite   |                     |          |                        | Recursive Copy                  |                   |
| 0.0                           |                        |                | poney.org        |           | -             |                     |          |                        | Recursive Delete                |                   |
| JQ,                           |                        |                | bootrom.bin      | 394632    | ReadAWrite    |                     |          | 11- 4-4-               |                                 |                   |
|                               |                        |                | miniboot.backup  | 511096    | ReadAWrite    |                     |          | Bostrom                |                                 |                   |
|                               |                        |                | miniboot.default | 511096    | ReadAWrite    |                     |          | Default Miniboot       |                                 |                   |
|                               |                        |                | network          | 2048      | ReadAWrite    |                     |          | Backup Miniboot        |                                 |                   |
| WebviewMgmt                   |                        |                | boot of a 1 err  | 266       | Paadééérta    |                     |          |                        |                                 |                   |
| B <sub>c</sub>                |                        |                | soot.org.r.err   | 200       | neauwrite     |                     |          | Free space:            | 5222400 bytes                   |                   |
| System Mamt                   |                        |                | switch           | 2048      | Read/Write    |                     |          |                        |                                 |                   |
| - <del>System wy</del> mt     |                        |                | random-seed      | 256       | Read/Write    |                     |          |                        |                                 |                   |
|                               |                        |                |                  |           |               |                     |          |                        |                                 |                   |
| ] sys_filesystem_m            | anagement.html         |                |                  |           |               |                     |          |                        | Local                           | intranet          |

- **38** Check the box next to **bootrom.bin**.
- **39** Select **Delete** in the **File Operations** box. The following confirmation window will be displayed:



- 40 Click OK.
- **41** Check the box next to **miniboot.backup**.

42 Select Delete in the File Operations box. The following confirmation window will be displayed:



- 43 Click OK.
- 44 Check the box next to miniboot.default.
- 45 Select Delete in the File Operations box. The following confirmation window will be displayed:

| Microsoft | Internet Explorer                                   |
|-----------|---|
| ?         | Are you sure you wish to delete 'miniboot.default'? |
|           | Cancel  |

#### 46 Click OK.

If the image files are 5.1.5.R01 and the MiniBoot and BootROM are 5.1.5.340.R01 the upgrade to 5.1.5.R01 is now complete. (See Verifying the Upgrade with WebView on page 15 for more information.)

# Verifying the Upgrade with WebView

You can use WebView to verify that your upgrade is successful.

### Verifying the Firmware with WebView

To verify that the MiniBoot/BootROM has been successfully upgraded to 5.1.5.340.R01 on OmniSwitch 7700, 7800, and 8800 switches, select **Physical** > **Chassis Mgmt** > **CMM** > **Hardware Component** as shown below:



### Verifying the Software with WebView

To verify that the software was correctly upgraded to 5.1.5.R01, select **System** > **System** Mgmt > **Images** > **Loaded Images** as shown below:

| Webview- 10.3                 | 255.11.242 - Microso                      | oft Internet Explorer |                              |                     |            |                             |   |
|-------------------------------|---|-----------------------|------------------------------|---------------------|------------|-----------------------------|---|
| <u>F</u> ile <u>E</u> dit ⊻ie | ew F <u>a</u> vorites <u>T</u> ools       | <u>H</u> elp          |                              |                     |            |                             | 100 A   |
| († . j                        | ), 🕺 🔮                                    | ) 🖾 🞑                 | ) 🗈 🧭 🛂                      | <u>_</u>            |            |                             |   |
| Back Forw<br>Address 🛃 http:/ | vard Stop Hetre<br>//10.255.11.242/web/cc | ontent/login.html     | ch Favorites History   Mail  | Print               |            |                             | ▼ 🖉 Go Links '                                      |
|                               |   |                       |                              |                     |            |                             |   |
| ARDHITECTS OF AN              | N INTERNET WORLD                          |                       |                              |                     | 42)        | Options                     | Save Configuration   Help   About   Telnet   Log Ou |
| Physical                      | System Mgmt Tim                           | ne/Date/Zone Syste    | em Info File Management In   | stall Images Swit   | ch Logging | Snapshot                    |   |
| Layer 2                       |   |                       | Loaded Images                | Images in Certified | lmaj       | ges in Workin               | ng  |
| Rolicy                        |   |                       |                              |                     |            |                             | <u>-</u>  |
| Security                      | Loaded In                                 | nage Files            |                              |                     |            |                             |   |
| System                        |   |                       |                              | -                   |            | lest.                       |   |
| (T)                           | Version V                                 | Name 💙                | Description                  | V                   | Size       | S AT                        |   |
| Interfaces                    | 5.1.5.374.R01                             | Fadvrout.img          | Alcatel Advanced Routing     |                     | 938636     |                             |   |
|                               | 5.1.5.374.R01                             | Fbase.img             | Alcatel Base Software        |                     | 3826776    |                             |   |
| 2                             | 5.1.5.374.R01                             | Fdiag.img             | Alcatel Diagnostics Archive  |                     | 331004     |                             |   |
| AIP                           | 5.1.5.374.R01                             | Feni.img              | Alcatel NI Software          | 1093850             |            |                             |   |
| ( <b>1</b> )                  | .5.1.5.374.R01                            | Fl2eth.img            | Alcatel Layer 2, Ethernet    | 860375              |            | The impress files have have |   |
| ۳ 🖁                           | 5.1.5.374.R01                             | Fos.img               | Alcatel Operating System     | 981520              |            | The image files have been   |   |
| SNMP                          | 5.1.5.374.R01                             | Fqos.img              | Alcatel Quality of Service   |                     | 338790     |                             | correctly updated to                                |
| 0.0                           | 5.1.5.374.R01                             | Frout.img             | Alcatel Routing              |                     | 596480     |                             | - 5.1.5.R01.  |
| JQ.                           | 5.1.5.374.R01                             | Fsecu.img             | Alcatel Security             |                     | 130416     |                             |   |
|                               | 5.1.5.374.R01                             | Fweb.img              | Alcatel Webview - Main       |                     | 1219809    |                             |   |
| n En                          | 5.1.5.374.R01                             | Fwebadvrout.img       | Alcatel Webview - Advanced   | 231864              |            |                             |   |
|                               | 5.1.5.374.R01                             | Fwebl2eth.img         | Alcatel Webview - Layer 2 a  | nd Ethernet drivers | 264747     |                             |   |
| vvebviewwight                 | Version                                   | Name                  | Descriptio                   | n                   | Size       |                             |   |
| B <sub>i</sub>                | 5.1.5.374.R01                             | Fwebqos.img           | Alcatel Webview - Quality of | Service             | 245011     |                             |   |
| System Mam <u>t</u>           | 5.1.5.374.R01                             | Fwebrout.img          | Alcatel Webview - Routing    |                     | 224042     |                             |   |
|                               | 5.1.5.374.R01                             | Fwebsecu.img          | Alcatel Webview - Security   |                     | 202878     |                             |   |
| e) (1 ) (                     |   |                       |                              |                     |            |                             |   |
| sys_hiesystem_lc              | paded_table.html                          |                       |                              |                     |            |                             | Est Local intranet                                  |

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 have been correctly upgraded to Release 5.1.5.R01.

**Note.** Refer to the online help and to the *OmniSwitch* 7700/7800/8800 Switch Management Guide for more documentation on WebView.

### Upgrading the Image Files with the CLI

Follow the steps below to upgrade the image files on OmniSwitch 7700/7800/8800 switches to Release 5.1.5.R01 through the CLI. You should review all steps in this procedure before beginning.

**Caution.** Do not FTP the **miniboot.default**, **miniboot.backup**, and **bootrom.bin** files at this time. See the related sections for those instructions.

**1** FTP the 5.1.5.R01 image files to the **/flash/working** directory.

Note. If you have dual CMMs make sure you FTP the files to the primary CMM (CMM-A).

**2** Log into the CMM.

Note. In dual redundant configurations you must log into the primary CMM (CMM-A).

- **3** At the CLI prompt enter:
  - -> install \*.img
- **4** When prompted to install the WebView security image file (**Fwebsecu.img** on OmniSwitch 7700/ 7800 and **Ewebsecu.img** on OmniSwitch 8800) answer **y**.
- 5 Enter:

```
-> reload working no rollback-timeout
```

The switch will now reboot to the new working version.

6 Log into the CMM.

Note. In dual redundant configurations you must log into the primary CMM (CMM-A).

- 7 If you have a single CMM enter:
  - -> copy working certified

If you have dual redundant CMMs enter:

-> copy working certified flash-synchro

Wait for the command to finish executing.

Note. In dual redundant configurations the secondary CMM (CMM-B) will reboot.

8 If the MiniBoot and BootROM are not 5.1.5.340.R01 continue to Updating the MiniBoot/BootROM with the CLI on page 19. (See Verifying the Upgrade with the CLI on page 21 for more information.)

If the image files are 5.1.5.R01 and the MiniBoot and BootROM are 5.1.5.340.R01 the upgrade to 5.1.5.R01 is now complete. (See Verifying the Upgrade with the CLI on page 21 for more information.)

### Updating the MiniBoot/BootROM with the CLI

Follow the steps below to upgrade the MiniBoot and BootROM to 5.1.5.340.R01. Please note that Release 5.1.5.R01 image files must be installed to use the steps in this procedure. See **Upgrading the Image Files** with the **CLI** on page 17 for more information.

**WARNING.** All CMMs must be certified and in redundant configurations both CMMs must be synchronized before beginning. In addition, the switch must be running in the Working directory. Use the **show running-directory** command to confirm these conditions.

- 1 Download the **bootrom.bin**, **miniboot.backup**, and **miniboot.default** files from the Alcatel's Service and Support code directory to the /**flash** directory.
- **2** Log into the CMM.

Note. In dual redundant configurations you must log into the primary CMM (CMM-A).

```
3 Enter
```

```
-> update bootrom bootrom.bin
```

4 Enter

```
-> update default miniboot miniboot.default
```

- 5 Enter
  - -> update backup miniboot miniboot.backup
- 6 If you have a single CMM go to Step 14 on Page 20. Otherwise, continue to Step 7 below.
- 7 Log out of the primary CMM (CMM-A) and log into the secondary CMM (CMM-B).
- 8 Enter:

```
-> takeover
```

A prompt similar to the following will be displayed:

Confirm Takeover (Y/N) :

- 9 Press Y. The switch will reboot and the secondary CMM (CMM-B) will now become primary.
- **10** Download the **bootrom.bin**, **miniboot.backup**, and **miniboot.default** files from the Alcatel's Service and Support code directory to the /**flash** directory of CMM-B (the current primary).
- **11** Enter
  - -> update bootrom bootrom.bin

### 12 Enter

-> update default miniboot miniboot.default

#### 13 Enter

-> update backup miniboot miniboot.backup

#### 14 Enter:

-> rm bootrom.bin

### 15 Enter:

-> rm miniboot.default

### 16 Enter:

- -> rm miniboot.backup
- **17** If you have a single CMM and the image files are 5.1.5.R01 and the MiniBoot and BootROM are 5.1.5.340.R01 the upgrade to 5.1.5.R01 is now complete. Otherwise, continue to Step 18 below.

**18** Log into the current secondary CMM (CMM-A).

#### **19** Enter:

-> rm bootrom.bin

### **20** Enter:

-> rm miniboot.default

### 21 Enter:

-> rm miniboot.backup

If the image files are 5.1.5.R01 and the MiniBoot and BootROM are 5.1.5.340.R01 the upgrade to 5.1.5.R01 is now complete. (See Verifying the Upgrade with the CLI on page 21 for more information.)

# Verifying the Upgrade with the CLI

You can use Command Line Interface (CLI) commands to verify that your upgrade is successful. To verify that the MiniBoot/BootROM has been successfully upgraded to 5.1.5.340.R01 on OmniSwitch 7700, 7800, and 8800 switches, use the **show hardware info** command as shown below:

| -> show hardware info            |                              |                             |
|----------------------------------|------------------------------|-----------------------------|
| СРИ Туре                         | : UltraSPARC IIe (SPARC-V9), |                             |
| Flash Manufacturer               | : AMD,                       |                             |
| Flash size                       | : 33554432 bytes (32 MB),    |                             |
| RAM Manufacturer                 | : Micron,                    |                             |
| RAM size                         | : 134217728 bytes (128 MB),  |                             |
| NVRAM Battery OK                 | : YES,                       |                             |
| Interrupt Boot Jumper            | : ON,                        |                             |
| Force UART Defaults Jumper       | : OFF,                       |                             |
| Run Extended Memory Diags Jumper | : OFF,                       |                             |
| Spare Jumper                     | : OFF,                       |                             |
| BootROM Version                  | : 5.1.5.340.R01,             |                             |
| Backup Miniboot Version          | : 5.1.5.340.R01,             | The MiniBoot and BootPOM    |
| Default Miniboot Version         | : 5.1.5.340.R01,             | have been correctly undated |
| FPGA (1) Version                 | : 42,                        | to $5.1.5.340$ R01.         |
| FPGA (2) Version                 | : 42                         | ·····                       |

To verify that the software was correctly upgraded to 5.1.5.R01, use the **show microcode** command as shown below:

| -> show microcode | 5             |         |   |
|-------------------|---------------|---------|---|
| Package           | Release       | Size    | Description   |
| Fadvrout.img      | 5.1.5.374.R01 | 845974  | Advanced Routing  |
| Fbase.img         | 5.1.5.374.R01 | 3615701 | Base Software   |
| Feni.img          | 5.1.5.374.R01 | 1140446 | NI Software   |
| Fl2eth.img        | 5.1.5.374.R01 | 806878  | Layer 2, Ethernet   |
| Fos.img           | 5.1.5.374.R01 | 937390  | Operating System  |
| Fqos.img          | 5.1.5.374.R01 | 289273  | Quality of Service  |
| Frout.img         | 5.1.5.374.R01 | 516176  | Routing   |
| Fsecu.img         | 5.1.5.374.R01 | 129759  | Security  |
| Fweb.img          | 5.1.5.374.R01 | 1216555 | Webview - Main  |
| Fwebadvrout.img   | 5.1.5.374.R01 | 238855  | Webview - Advanced Routing                                      |
| Fwebl2eth.img     | 5.1.5.374.R01 | 264772  | Webview - Layer 2 and Etherne                                   |
| Fwebqos.img       | 5.1.5.374.R01 | 225978  | Webview - Quality of Service                                    |
| Fwebrout.img      | 5.1.5.374.R01 | 220240  | Webview - Routing   |
| Fwebsecu.img      | 5.1.5.374.R01 | 206088  | Webview - Security  |
|                   |               |         | The image files have been<br>correctly updated to<br>5.1.5.R01. |

Note. Refer to the OmniSwitch CLI Reference Guide for complete documentation on CLI commands.



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