Getting Started

The Resource Manager application, shown below, enables you to manage the firmware configuration files in network switches. The Resource Manager application makes it possible to:

- Backup the current firmware configuration files in network switches to the OmniVista server, and restore the configuration files to the switches when desired.
- Import new or upgraded image and firmware files into OmniVista, and install the new files in network switches when desired. (Note that all new image files must be provided by Alcatel Customer Service.)
- Run Inventory Reports on network switches that enable you to examine a switch configuration before performing the functions described above.

Resource Manager displays three tabs. The Backup/Restore tab enables you to manage the backing up and restoring of current firmware configurations. The Upgrade Image tab enables you to manage the importation and installation of new firmware files. The Inventory tab enables you to run switch Inventory Reports and, for convenience, also enables you to initiate switch backups.



Resource Manager Backup/Restore Tab Displayed

Backup/Restore Tab

The Backup/Restore tab enables you to backup configuration files to the OmniVista server, to view a detailed list of the files saved to the server during an individual backup, and to restore configuration files to the switches from which they were originally taken. As shown below, the top pane of the Backup/Restore tab, labeled "Backup Files," lists the switch backups that currently exist on the server. Select any backup listed and the bottom pane, labeled "File Details," lists the individual files that were saved to the server during the backup.

Note: Backup/Restore support using the Resource Manager application is currently available on OS6200 devices.

| 🙋 Omni¥ista 2500 | - Application: Res | ource Manager Wir | ndow:0 | · · · · · · · · · · · · · · · · · · · | | | 2 | | |
|-------------------|--------------------|----------------------|----------------|---------------------------------------|-----------------|------------|--------------------|----------|----------------------|
| Eile Applications | View Resource | Manager Hel <u>p</u> | | | | | | | |
| | 1 | × # # ? | | | | | | - | |
| Network | Backup/Restore | Upgrade Image | Inventory | | | | | | List of switch |
| Configuration | Backup Files | | | | | 15 | 5/15 🕱 📾 🛃 | | backups Select |
| _ | Name | Address T | ype | Date | Backup | Туре | Version | | a backup to view |
| | 😿 vxTarget 👘 | 10.255.11.111 089 | 700 Jan 20, 20 | 006 7:33:02 AM | Full Backup - C | ertified C | only 6.1.1.634.R01 | M- | a backup to view |
| 1 | M OmniSwitch | 10.255.211.69 OS6 | 624 Nov 3, 20 | 05 6:44:20 AM | Configuration (| Dnly | 5.1.6.310.R01 | 0- | details below. |
| | | | 11 | | | | | • | |
| Resource Manager | File Details | | | | | 12 | 012 😙 🚍 🗛 🔳 | III | |
| | Tile blen | Distance | Manalan | | dation D | - | | 100 | |
| 69 | File Nan | ne Directory | Version | Desc | ription D | ate | File Size(bytes) | 1.1 | |
| VLANS | boot.bak | mash/certifie | d Unknown | Unknown | Dec | 1 | 10659 | ^ | A described line of |
| | boot.cfg | mash/certifie | d 6.1.1.634.R0 | 1 Configura | tion File Jan | 13, | 14343 | | A detailed list of |
| _ | boot.sim | ple mash/centifie | d Unknown | Unknown | Dec | 1, | 946 | | the individual files |
| 875 | boot_tuji. | ctg intashi/certifie | d 6.1.1.634.RU | 1 Configura | tion File Jun | 16, | 1204 | | that were saved to |
| 1 | Jadvrout. | img /flash/certifie | d 6.1.1.634.R0 | 1 Alcatel Ad | vanced R Jan | 5, | 1387757 | | that were saved to |
| Global GoS | Jbase.im | g /flash/certifie | d 6.1.1.634.R0 | 1 Alcatel Ba | se Softwa Jan | 5, | 11011671 | - | The server during |
| | Jdiag.im | nash/certifie | d Unknown | Software F | ile Jan | 5, | 2499849 | | the backup select- |
| | Jdni.img | /flash/certifie | d Unknown | Software F | ile Jan | 5, | 2331737 | | ed above |
| | 🗾 🔄 Jeni.img | /flash/certifie | d 6.1.1.634.R0 | 1 Alcatel NI | software Jan | 5, | 3669144 | | eu ubore. |
| Security | 🗾 🗹 Jos.img | /flash/certifie | d 6.1.1.634.R0 | 1 Alcatel OS | Jan | 5, | 1852476 | | |
| A desirate at | 🗾 🗹 Jrelease. | img /flash/certifie | d - | Release A | trchive Jan | 5, | 3146 | - | |
| Administrat | - will a leasuim | a idlochicortifia | d II.Intonown | Coffwore | alo Llon | я. | 246170 | | |

Backup/Restore Tab

Icons in the Resource Manager Tool Bar, shown below, enable you to backup switches and restore the backups when desired. Backups are performed from the Backup Configuration Wizard, shown below, which opens when the Backup Device icon is clicked. Click here for further information on the functionality available from the Backup/Restore tab.

| OmniVista 250 e Application | 0 - Application: Re s View Resourc | Source Manacer eManager Hel | ick † ackup Click Winda | he Rest os to sw k the Bo | iore iitch icku | Backup Jes. p Device | icon to | o resto o back | re se up sv | vitches. | -101 |
|--------------------------------|---------------------------------------|--------------------------------|----------------------------------|---------------------------------|-----------------------|----------------------------|-----------|-------------------|----------------|---------------|------|
| Network | Backup/Restor | e Upgrade Im | age | Inventory | | | | | | | |
| Configuration | Backup Files | | | | | | | | 15/15 | 3 8 8 5 | 田田 |
| - | Name | Address | Type | e | Dat | te | Ba | ackup Type | | Version | |
| | w/Target | 10.255.11.111 | 05970 | 00 Jan 20, | 2006 | 7:33:02 AM | Full Back | p - Certifie | d Only | 6.1.1.634.R01 | N - |
| | OmniSwitch | 10.255.211.69 | OS662 | 24 Nov 3, 2 | 2005 6 | 44:20 AM | Configura | tion Only | | 5.1.6.310.R01 | 0 |
| | Ĩ | | | 11 | | | | | | | F |
| ource Manager | A.T | | | | | | | | | | |
| | File Details | | | | | | | | 12/12 | 2 2 3 | |
| 20 | File Na | ame Dire | ctory | Versi | on | Desc | ription | Date | File | Size(bytes) | |
| 8a) | Doot,ba | k //lash/c | ertified | Unknown | | Unknown | | Dec 7 | | 10659 | |
| VLANs | Doot.cfg | /flash/c | ertified | 6.1.1.634.8 | R01 | Configurat | ion File | Jan 13 | | 14343 | 1 |
| | Doot.sir | nple //lash/c | ertified | Unknown | | Unknown | | Dec 7, | | 946 | |
| <u>9</u> | Doot_fu | ji.cfg /flash/c | ertified | 6.1.1.634. | 201 | Configurat | ion File | Jun 16, | | 1204 | |
| 83 | 🖌 📑 Jadvrou | itimg /flash/c | ertified | 6.1.1.634.8 | R01 | Alcatel Adv | anced R | Jan 5, | | 1387757 | |
| Global QoS | 🖌 📑 Jbase.i | mg /flash/c | ertified | 6.1.1.634.8 | R01 | Alcatel Bas | se Softwa | Jan 5, | | 11011671 | |
| | 🖌 🛃 Jdiag.ir | ng //lash/c | ertified | Unknown | | Software F | ile | Jan 5, | | 2499849 | |
| - | 🖌 🛃 Jdni.im | g //lash/c | ertified | Unknown | | Software F | ile | Jan 5, | | 2331737 | |
| * | 🖌 🛃 Jeni.im | g //lash/c | ertified | 6.1.1.634. | 201 | Alcatel NI s | software | Jan 5, | | 3669144 | |
| Security | 🖌 🛃 Jos.im | //lash/c | ertified | 6.1.1.634.8 | R01 | Alcatel OS | | Jan 5, | | 1852476 | |
| | 🖌 🖻 Jreleas | e.img //lash/c | ertified | • | | Release A | rchive | Jan 5, | | 3146 | |
| udministrat | I I toocu i | ma Machie | holition. | Linknown | | Coffwara 5 | ito | A not | | 246170 | |

Backup Configuration Wizard

When you click the Backup Device icon to backup switches, Page One of the Backup Configuration wizard displays, as shown below. Page One of the wizard (shown below) displays two options, **Backup By Devices** and **Backup By Maps**. The **Backup By Devices** option lets you back up switches by devices and the **Backup By Maps** option lets you back up switches by regions. If you select the **Backup By Devices** option and click the **Next** button, Page Two of the wizard will display a list of all the devices known to OmniVista. However, if you select the **Backup By Maps** option and click the **Topology application** will be displayed in Page Two.

Select the desired option in Page One and click the **Next** button. Page Two of the Backup Configuration wizard displays.

| Resource Manager Backup C | pnfiguration | × |
|--|---|---|
| | Select Backup Method | |
| | Backup By Devices | |
| | Backup By Maps | |
| | "Backup By Devices" allows you to add devices individually to the backup task, however once the task is scheduled the devices in the task cannot be changed. "Backup By Maps"can be used to backup devices by linking the backup task with Topology maps. The scope of a scheduled backup task can be dynamically modified without having to delete and recreate the task by adding/deleting switches to the maps in Topology. | |
| This wizard will walk you through the process of | | |
| creating/scheduling a | | |
| backup for the selected switches. Click the Heln | | |
| button for information on | | |
| creating/scheduling backup configuration options. | <back next=""> Backup Configuration Close Cancel Help</back> | |
| comigation of contract | Toth County County County County County | |

Backup Configuration Wizard (Page One)

Page Two of the wizard (shown below) either displays a list of devices (note that the list does not include all devices in the list of All Discovered Devices) or a list of regions to back up based on the options selected in Page One. Select one or more devices/regions that you want to backup and click the **Next** button. Page Three of the Backup Configuration wizard displays.

| 🖉 Resource Manager Backup | Configuration | | | | | × |
|----------------------------|----------------|---------------|------------------|-------------|---------------|-----------------|
| | Devices | | 6000-07-00-0 | | 144/144 🕱 🖇 | 8888 |
| | Name | Address | DNS Name | Type | Version | Backup D |
| | 🗑 Kite_59 | 10.255.11.59 | | OS6800-48 | 6.1.2.12.R02 | A |
| | Kite_60 | 10.255.11.60 | | 0\$6800-48 | 6.1.2.37.R01 | |
| | 🙀 vxTarget | 10.255.11.61 | | 0\$6800-24 | 6.1.2.18.R02 | |
| | 🗙 🗑 vxTarget | 10.255.11.63 | | 0\$6800-24 | 6.1.2.60.R01 | |
| | kite2_97 | 10.255.11.97 | | 0\$6800-24 | 6.1.2.150.R01 | |
| | 🗑 falconCmm | 10.255.11.100 | | 0\$7700 | 5.1.6.393.R01 | |
| | Kite_Fiber_U24 | 10.255.11.101 | | 0\$6800-U24 | 5.3.1.181.R02 | |
| | NMS_HAWK_102 | 10.255.11.102 | | 086624 | 5.1.6.157.R02 | |
| | nms-test-103 | 10.255.11.103 | | OmniS/R-9 | 4.4.5 | |
| | 😥 no-name | 10.255.11.104 | | 056800-48 | 6.1.1.502.R01 | |
| | 🗑 wTarget | 10.255.11.109 | | 0\$6800-24 | 6.1.2.130.R01 | |
| | 😡 wTarget | 10.255.11.111 | | 0\$9700 | 6.1.1.634.R01 | Jan 19, 2006 6; |
| | 🔛 Kite1 | 10.255.11.112 | | 0\$6800-24 | 6.1.2.144.R01 | |
| | no-name-119 | 10.255.11.119 | | OmniS/R-5 | 4.5.2 | |
| | 🔳 no-name | 10.255.11.120 | | OmniS/R-3 | 4.5.2 | |
| | 🔛 vxTarget | 10.255.11.121 | | 0\$9700 | 6.1.1.633.R01 | |
| | WV_HAWK_122 | 10.255.11.122 | | 0S6648 | 5.4.1.170.R01 | |
| | NMS_123_Hawk | 10.255.11.123 | | 086648 | 5.1.5.133.R04 | |
| | no-name | 10.255.11.124 | | OA-512 | 4.4.1 | |
| | INMS 125 | 10.255.11.125 | | 086300-24 | 2.2.0.13 | |
| | WV_FUJI1_126 | 10.255.11.126 | | 089700 | 6.1.1.633.R01 | |
| | BS0001s | 10.255.11.127 | | 0\$7800 | 5.1.6.163.R02 | |
| | WV_FUJI2_129 | 10.255.11.129 | | 089800 | 6.1.1.633.R01 | |
| | ES0001A-1 | 10.255.11.130 | | 0\$6648 | 5.1.6.19.R03 | |
| | Hawk 219 | 10.255.11.132 | | 086648 | 5.4.1.29.R01 | |
| This wizard will walk you | Kite 135 | 10.255.11.135 | | OS6800-48 | 6.1.2.140.R01 | |
| through the process of | Kite2 NMS | 10.255.11.144 | | 0\$6800-24 | 6.1.2.16.R02 | |
| creating/scheduling a | NMS-test-148 | 10.255.11.148 | | Omni-5WX | 4.5.3.100 | |
| backup for the selected | no-name | 10.255.11.152 | | OA-512 | 4.3.3.118 | |
| switches. Click the Help | OmniStack 6148 | 10.255.11.154 | | 05-6148 | V3.40.21 | * |
| button for information on | 4 | | | | | • |
| creating/scheduling backup | | 1 | | 1 | 10 | |
| configuration options. | < Back | Next > Back | ip Configuration | on Cance | el Close | Help |

Backup Configuration Wizard (Page Two)

| 💋 Resource Manager Backup | Configuration | | | | | | X |
|----------------------------------|------------------------|------------|--------------|--------------|-------------|---------------|-------------|
| | Map List | | | | | ê. | 1222 |
| | Name | | F | Parent Map | View Pe | ermission | |
| | logical network | | Logical Netw | vork | All Users | | - |
| | Subnet 10.10.10.0 | | Logical Netw | vork | All Users | | = |
| | 1.0.0.0/8 | | Physical Net | work | All Users | | |
| | 10.0.0.0/8 | | Physical Net | work | All Users | | |
| | 111.0.0.0/8 | | Physical Net | work | All Users | | |
| | 120.0.0/8 | | Physical Net | work | All Users | | |
| | 130.0.0/16 | | Physical Net | work | All Users | | |
| | 130.201.0.0/16 | | Physical Net | work | All Users | | |
| | 136.18.0.0/16 | | Physical Net | work | All Users | | |
| | 140.0.0.0/16 | | Physical Net | work | All Users | | |
| | 151.96.0.0/16 | | Physical Net | work | All Users | | 1 |
| | 153.18.0.0/16 | | Physical Net | work | All Users | | |
| | 172.100.0.0/16 | | Physical Net | work | All Users | | 1 |
| | 172.16.0.0/16 | | Physical Net | work | All Users | | - |
| | Devices In Selected Ma | D(S) | | | | A | FH |
| | Name | Ad | dress | DNS Name | Type | Version | Contract of |
| | falconCmm | 10.255.11. | 100 | Cito Hame | 0\$7700 | 5.1.6.393.R01 | |
| | Kite Fiber U24 | 10.255.11 | 101 | | OS6800-U24 | 5.3.1.181.R02 | 12 |
| | NMS HAWK 102 | 10.255.11 | 102 | | OS6624 | 51.6.170.R02 | |
| | mms-test-103 | 10,255,11 | 103 | | OmniS/R-9 | 445 | -11 |
| | fed wTarget | 10.255.11 | 104 | | OS6800-48 | 5.3.1.223.R02 | - |
| | fed wTarget | 10 255 11 | 111 | | 059700 | 611634 R01 | - |
| | feel kite | 10,255,11 | 112 | | 0\$6800-24 | 61246 R03 | - |
| | no-name-119x | 10,255,11 | 119 | | OmniS/R-5 | 452 | - |
| This mirard will walk upon | no-name | 10,255,11 | 120 | | OmniS/R-3 | 452 | - |
| through the process of | no-name | 10 255 11 | 121 | | 059700 | 613105 R01 | - |
| creating incheduling a | MW HAWK 122-T | 10 255 11 | 122 | | 056648 | 516154 R02 | - |
| backup for the colocted | MINMS 123 Hawk 1 | 10 255 11 | 123 | | 056648 | 51.5133.R04 | - |
| switches Click the Heln | no-name | 10.255.11. | 124 | | 0A-512 | 4.4.1 | |
| button for information on | 1 | | | | | | |
| creating/scheduling backup | | | | | | | |
| configuration options. | < Back | Next > | Backup Co | onfiguration | lose Cancel | Help | |
| a second an a second a privation | | | | | | | |

Backup Configuration Wizard (Page Two)

Page Three of the Backup Configuration wizard (shown below) enables you to enter a description of the firmware to be saved, specify the type of backup you want performed, initiate the backup process, and monitor its progress. Page Three of the wizard also enables you to schedule the backup for a later time or date, if desired. Click here for further information on Page Three of the Backup Configuration wizard.

| 🖉 Resource Manager Backup Co | onfiguration | | | | × |
|---|------------------------------------|-------------------------|------------|----------------------|----------|
| | Configuration Par | ameter | | | |
| | Description | | | | |
| 1 | scheduled backu | 1p | | | |
| | Backup Options | | | | |
| | Backup Type: | Full Backup 💌 | | | |
| | For AOS Device | s | For 6200 0 | Devices | |
| | Certified Dire | ectory Only | Active | Image Only (recommen | ded) |
| | All Directorie | es | O Active | and Inactive Images | |
| | Scheduling | | | | |
| | Scheduled | | 🗆 lr | icremental | |
| | Start at: | Sep 29, 2006 3:13:14 PM | Time Time | e Between Backups: | - |
| | Message Area | | | | |
| | | | | | _ |
| | | | | | |
| This wizard will walk you | | | | | |
| through the process of creating scheduling a | | | | | |
| backup for the selected | | | | | |
| switches. Click the Help button for information on | | | | | <u> </u> |
| creating/scheduling backup configuration options. | < Back | Next > Backup Co | ngguration | Close Cancel | Help |

Backup Configuration Wizard (Page Three)

Upgrade Image Tab

The Upgrade Image tab enables you to upgrade software, firmware, and FPGA (9000 series only) files. Import the latest files from the Customer Support Web Site and use the "Upgrade Software" Wizard to upgrade a switch(es). As shown below, the top pane of the Upgrade Image tab, labeled "Upgrade Files," lists the imported firmware packages that currently exist on the server. When you select an import package in the "Upgrade Files" area the individual files will be listed in the bottom pane, labeled "File Details".

| Eile Application | s <u>V</u> iew <u>R</u> esourceManager I | Help | | | | | |
|------------------|--|-----------------|------------------------|--------------|--------------|-------------------------|-----------------------|
| | | 💼 😵 | | | | a | |
| Network | Backup/Restore Upgrade | Image Inventor | У | | | | |
| Configuration | Upgrade Files | | | | | 44 🕲 🕾 🖨 🖽 🖽 | |
| - | Type | | Date | Vers | ion | Description | List of imports by |
| | S OmniSwitch7xx | Jan 23, 2006 4: | 40:42 PM | 5.1.6.87.R02 | AOS | 5.1.6.87.R02 | device type Select |
| 100 C | 📓 OmniSwitch7xxx | Jan 23, 2006 4: | 41:38 PM | 5.1.6.154.R0 | 2 AOS | 5.1.6.154.R02 | device type. Select |
| | OmniSwitch7xxx | Jan 23, 2006 4: | 42:12 PM | 5.1.5.54.R04 | AOS | 5.1.5.54.R04 | an import to view |
| | S OmniSwitch9xx | Jan 23, 2006 4: | 42:54 PM | 6.1.1.633.R0 | AOS | 6.1.1.633.R01 | dataile halow |
| VLANS | A T | | | | | 010 3 S A III F | |
| _]#1 | File Name | Version | Descript | ion | Date | File Size(hdes) | |
| | Indurout ima | 6 1 1 633 P01 | CMM Advanced Routi | 0.0 | Dec 23, 2005 | 1397703 | |
| | A lhase ima | 6.1.1.633.R01 | CMM Page | ng | Dec 23, 2005 | 11011844 | A statistical line of |
| | ldiag img | 611633 R01 | CMM Diagonatics | | Dec 23, 2005 | 2490849 | A detailed list of |
| <u> 70</u> | V John ima | 6.1.1.633 R01 | NI Disencetice | mostics | | 2231737 | the individual files |
| 16 | Jeni ima | 6.1.1.633.R01 | NI image for all Ether | net-type NIs | Dec 23, 2005 | 3669114 | in the import |
| | Jfpga upgrade kit | 6.1.1.633.R01 | foga upgrade kit firmv | ware | Dec 15, 2005 | 1239739 | in the import |
| | Jos.img | 6.1.1.633.R01 | CMM Operating Syste | m | Dec 23, 2005 | 1852473 | selected above. |
| ¥ | 🕑 🖻 Jrelease.img | 6.1.1.633.R01 | Release Archive | | Dec 23, 2005 | 3145 | |
| Security | Jsecu.img | 6.1.1.633.R01 | CMM Security (AVLAN | IS) | Dec 23, 2005 | 346180 | |
| | miniboot.uboot | 6.1.1.633.R01 | miniboot firmware | | Dec 15, 2005 | 837439 | |
| Administrat | | | | | | | |
| <u>* 7</u> | | | | | | | |
| | Date | | Application | | Туре | Mes: | |
| Mon Jan 23 16:43 | 3:13 PST 2006 | Resource M | anager | Info | | Add Ungrade Image O | |
| 4 | | 1.0000000000 | analysi. | | | Plan opgrade intage 0 + | |
| Clature Matif | antiana | | | | | | |
| Status Notin | cauons | | | | | | 1 |

Upgrade Image Tab

Caution: Never attempt to import or install firmware files or upgrade packages acquired from any source other than Alcatel Customer Service. Image and Firmware files are specially packaged by Alcatel Customer Server for importation into OmniVista, and contain an LSM file that describes the package contents to OmniVista. Installing new images files in XOS devices may cause configuration incompatibilities. Always check with Alcatel Customer Support before installing new images files in XOS devices to ensure that the image files being installed are compatible.

Resource Manager will prevent unsupported upgrades. When such an attempt is made, a message box informing that the upgrade has been rejected is displayed. This message box also displays details of the versions of the switch software required to successfully perform the upgrade.

Note: You must first complete the BootROM/Miniboot, U-Boot/Miniboot upgrade before upgrading the FPGA or image files. If you are upgrading a 6800 series switch, you must first upgrade the 5.3.1 software to 5.3.1.231.R02 or later.

Installation of firmware files takes place immediately when initiated; installation of firmware files cannot be scheduled for a later time or date. Click here for further information on Page Two of the Install Upgrade Software Wizard to install image files or click here for further information on Page Two of the Install Upgrade Software Wizard to install BMF files.

Inventory Tab

The Inventory tab, shown below, displays a list of the devices known to OmniVista that it is possible to inventory and back up. (Note that the list does not include all devices in the list of All Discovered Devices.) When the Inventory tab is displayed, icons in the Tool Bar enable you to create an Inventory Report for selected switches and to backup selected switches, as shown below. Click here for further information on the Inventory tab.

| sta 2500 - Application: Resource Manager Window:0 lications View ResourceManager Help Image: Solution of the state of th | | | Click | the Back | up Device i | con to back | up selected swit | ch |
|--|------------|-----------------------------|-----------------|----------|-------------|---------------|---------------------|----|
| Ijcations View ResourceManager Holp Image: Image Image Image Image Image ork Backup/Restore Upgrade Image Inventory Devices 151/151 Image Image Image Address DNS Name Type Version Last Upgrade Statu Image: Image 10.255.11.59 OS6800-24 6.1.2.114.R01 Image I | /ista 2500 |) - Application: Resource N | 1anager Window | r:0 | | | | 1 |
| Name Address DNS Name Type Version Last Upgrade Statu Image: Status Name Address DNS Name Type Version Last Upgrade Statu Image: Status Name Address DNS Name Type Version Last Upgrade Statu Image: Status Name Address DNS Name Type Version Last Upgrade Statu Image: Status Name 10.255.11.59 OS6800-48 6.1.2.43.R03 Status Image: Status 10.255.11.61 OS6850-24 6.1.2.49.R03 Status Image: Status 10.255.11.61 OS6850-24 6.1.2.31.R02 Status Image: Status 10.255.11.61 OS6850-248 6.1.2.48.R03 Status Image: Status 10.255.11.97 OS6850-248 6.1.2.48.R03 Status Image: Status 10.255.11.101 OS68600-U24 5.1.6170.R02 Status Image: Status 10.255.11.102 OS6860-48 5.1.223.R02 Status Image: Status 10.255.11.104 OS68600-48 <th>plications</th> <th>View ResourceManag</th> <th>er Help</th> <th></th> <th></th> <th></th> <th></th> <th></th> | plications | View ResourceManag | er Help | | | | | |
| BackupRestore Upgrade Image Inventory otion Devices 151/151 Image Image Image Address DNS Name Type Version Last Upgrade Statu Image Address DNS Name Type Version Last Upgrade Statu Image Address DNS Name Type Version Last Upgrade Statu Image 10.255.11.59 OS6800-48 6.1.2.43.R03 Image Image Image 10.255.11.61 OS6800-48 6.1.2.31.R02 Image Image Image 10.255.11.61 OS6850-24 6.1.2.49.R03 Image Image 10.255.11.61 OS6850-248 6.1.2.49.R03 Image Image 10.255.11.61 OS6850-248 6.1.2.46.R03 Image Image 10.255.11.61 OS68600-48 6.1.2.46.R03 Image Image 10.255.11.101 OS68600-42 5.1.6170.R02 Image Image 10.255.11.102 OS6860-48 5.1.223.R02 Image | | test restore real from | | | | | | |
| Backup/Restore Upgrade Image Inventory adion Devices 151/151 Image I | | | 1 着 🖇 | | | | | |
| Backup/Restore Upgrade Image Inventory adion Devices 151/151 Image I | 1 | 12 | | | | | | _ |
| Devices 151/151 <t< td=""><td>vork</td><td>Backup/Restore Upg</td><td>rade Image 🛛 In</td><td>ventory</td><td></td><td></td><td></td><td></td></t<> | vork | Backup/Restore Upg | rade Image 🛛 In | ventory | | | | |
| Name Address DNS Name Type Version Last Upgrade Statu Manager demo6850 10.1.1.43 OS6800-24 6.1.2.114.R01 Last Upgrade Statu Manager kite_59 10.255.11.59 OS6800-48 6.1.2.31.R02 Last Upgrade Statu Manager 10.255.11.61 OS6800-48 6.1.2.31.R02 Last Upgrade Statu Manager 10.255.11.61 OS6800-48 6.1.2.31.R02 Last Upgrade Statu Manager 10.255.11.61 OS6850-P48 6.1.2.31.R03 Last Upgrade Statu Maraget 10.255.11.63 OS6850-P48 6.1.2.31.R03 Last Upgrade Statu Maraget 10.255.11.100 OS6850-P48 6.1.2.31.R03 Last Upgrade Statu MMS_HAWK_102_1 10.255.11.101 OS6800-U24 5.1.6170.R02 Last Upgrade Statu MMS_HAWK_102_1 10.255.11.102 OS6820-48 5.1.223.R02 Last Upgrade Statu Maraget 10.255.11.103 OmniS/R-9 4.4.5 Last Upgrade Statu Maraget 10.255.11.104 OS68600-48 5.1.223.R02 La | ration | Devices | | | | 15 | 1/151 🔞 📾 🗛 📖 | FT |
| Armoger Interface Interface <thinterface< th=""> <thinterface< th=""> <thint< td=""><td>3</td><td>Name</td><td>Address</td><td>DNS Name</td><td>Type</td><td>Version</td><td>Last Upgrade Status</td><td>1</td></thint<></thinterface<></thinterface<> | 3 | Name | Address | DNS Name | Type | Version | Last Upgrade Status | 1 |
| Interpret 10.255.11.59 0.56800-48 6.1.2.43.R03 Interpret 10.255.11.60 0.56800-48 6.1.2.31.R02 Interpret 10.255.11.61 0.56850-24 6.1.2.49.R03 Interpret 10.255.11.63 0.56850-24 6.1.2.49.R03 Interpret 10.255.11.63 0.56850-P48 6.1.2.31.R03 Interpret 10.255.11.97 0.56850-P48 6.1.2.46.R03 Interpret 10.255.11.101 0.56850-P48 6.1.2.46.R03 Interpret 10.255.11.101 0.56800-U24 5.31.181.R02 Interpret 10.255.11.101 0.56624 5.1.6.170.R02 Interpret 10.255.11.102 0.56624 5.1.6.170.R02 Interpret 10.255.11.103 0mmiSR-9 4.4.5 Interpret 10.255.11.104 0.56800-48 5.31.223.R02 Interpret 10.255.11.109 0.56860-P48 6.1.2.24.R03 Interpret 10.255.11.101 0.56860-P48 6.1.2.24.R03 Interpret 10.255.11.111 0.599700 6.1.1.634.R01 | A | fed demo6850 | 10.1.1.43 | 0110110 | OS6800-24 | 6.1.2.114.R01 | eneropy and enaror | 1 |
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| kite2_97_1 10.255.11.97 058850-P48 6.1.2.46.R03 falconCmm 10.255.11.100 057700 5.1.6.393.R01 Kite_Fiber_U24 10.255.11.101 056800-U24 5.3.1.181.R02 MMS_HAWK_102_1 10.255.11.102 056804 5.1.6.170.R02 mms-test-103 10.255.11.103 0mniS/R-9 4.4.5 wxTarget 10.255.11.104 056860-48 5.1.223.R02 wxTarget 10.255.11.111 058850-P48 6.1.2.24.R03 | | bed vxTarget | 10.255.11.63 | | OS6850-P48 | 6.1.2.31.R03 | | T |
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| Image: Number of the state of the | 2 | nms-test-103 | 10.255.11.103 | | OmniS/R-9 | 4.4.5 | | Т |
| Dos Image: Transmission of the state of the | 3 | wTarget | 10.255.11.104 | 4 | OS6800-48 | 5.3.1.223 R02 | | T |
| wTarget 10.255.11.111 059700 6.1.1.634.R01 | QoS . | ted vxTarget | 10.255.11.109 | | OS6850-P48 | 6.1.2.24 R03 | | T |
| | | bu vxTarget | 10.255.11.111 | | 089700 | 6.1.1.634.R01 | | J |
| - Ind Kite 10.255.11.112 IOS6800-24 6.1.2.46.R03 | - | fiel Kite | 10.255.11.112 | 0 | OS6800-24 | 6.1.2.46 R03 | | 1 |
| no-name-119x 10.255.11.119 OmniS/R-5 4.5.2 | | no-name-119x | 10,255,11,119 | | OmniS/R-5 | 452 | | t |
| no-name 10.25511.113 OmniSR-3 4.5.2 | - | no-name-113x | 10.255.11.119 | | Omnis/R-3 | 4.3.2 | | |

Note: A new system file named "U-Boot" is available on OS9000 devices. This file is not supported on OmniVista 3.0. The Resource Manager can upload "Uboot" but it will not be automatically installed.

Backup/Restore Tab

The Backup/Restore tab enables you to backup firmware configuration files to the OmniVista server, to view a detailed list of the files saved to the server during an individual backup, and to restore configuration files. As shown below, the top pane of the Backup/Restore tab, labeled "Backup Files," lists the switch backups that currently exist on the server. Select any backup listed and the bottom pane, labeled "File Details," lists the individual files that were saved to the server during the backup.

Note: Backup/Restore support using the Resource Manager application is currently available on OS6200 devices.

| | | Back | up/Restor | e Tab | | | | |
|-------------------|---------------------------|------------------------------|-----------------------|------------------------------|-------------------------------|---------------------------------|-----|----------------------|
| 🙋 Omni¥ista 250 | 0 - Application: Resource | Manager Windo | w:0 | | | | | |
| Eile Applications | s View ResourceMana | ger Help | | | | | | |
| | 🗏 🔄 🖕 🗡 | 📩 🍰 💡 | | | | | 3 | |
| Network | Backup/Restore Up | ograde Image 👔 | rventory | | | | | List of switch |
| Configuration | Backup Files | | | | | 15/15 🕱 📾 🗒 | | backups Select |
| | Name Ad | dress Type 5.11.111 OS970 | Dat Jan 20, 2006 7 | te E 7:33:02 AM Full Baci | Backup Type kup - Certifie | Version d Only 6.1.1.634.R01 | V . | a backup to view |
| | OmniSwitch 10.25 | 5.211.69 OS662 | Nov 3, 2005 6 | 44:20 AM Configur | ation Only | 5.1.6.310.R01 | 0- | details below. |
| Resource Manager | File Details | | | | | 12/12 🔞 🗟 🛃 | | |
| 80 | File Name | Directory | Version | Description | Date | File Size(bytes) | | |
| 8ª/ | boot.bak | /flash/certified | Unknown | Unknown | Dec 7, | 10659 | | 1 1 |
| VLANs | boot.cfg | /flash/certified | 6.1.1.634.R01 | Configuration File | Jan 13, | 14343 | | A detailed list of |
| | 🖌 🗋 boot.simple | /flash/certified | Unknown | Unknown | Dec 7, | 946 | | the individual files |
| 9 | 🖌 🔄 boot_fuji.cfg | /flash/certified | 6.1.1.634.R01 | Configuration File | Jun 16, | 1204 | | the marriadar mes |
| 863 | 🕑 🔄 Jadvrout.img | /flash/certified | 6.1.1.634.R01 | Alcatel Advanced R. | . Jan 5, | 1387757 | | That were saved to |
| Global GoS | 🗾 🛃 Jbase.img | /flash/certified | 6.1.1.634.R01 | Alcatel Base Softwa | Jan 5, | 11011671 | - | the server during |
| | 🗾 🔄 Jdiag.img | /flash/certified | Unknown | Software File | Jan 5, | 2499849 | | the backup select- |
| | Jdni.img | Mash/certified | Unknown | Software File | Jan 5, | 2331737 | | ed above |
| | Jeni.img | masn/certified | 6.1.1.634.R01 | Alcatel NI Software | Jan 5, | 3669144 | | ed abore. |
| Security | Jos.img | Machined | 0.1.1.034.R01 | Alcater US | Jan 5, | 18524/6 | | |
| Administrat | Joogu img | Machicortified | - Linknown | Coffware File | Jan 5, | 246170 | - | |
| | P | | | | | | | |

"Backup Files" Fields

The fields in the "Backup Files" window pane are described below.

Name

The name of the switch that was backed up.

Address

The IP address of the switch that was backed up.

Туре

The chassis type of the switch that was backed up.

Backup Date

The date and time that the backup was initiated.

Backup Type

The type of backup performed. The Backup type can be **Full Backup** (both configuration files and image files were backed up), **Configuration Only** (only configuration files were backed up), or **Image Only** (only image files were backed up).

Backup Version

The firmware version number of the files that were backed up. For AOS switches, this is read from the operating system's image file. For XOS switches, this is the version number of the primary MPM module's firmware. For the OmniStack 6024, 6048, 6124, 6148, 6300-24, and 8008, this is the version number of the Agent firmware.

User Description

A description entered by the OmniVista user who initiated the backup.

"File Details" Fields

The fields in the "File Details" window pane are described below.

File Name

The name of the individual file that was backed up and is currently stored on the OmniVista server. Each file name displays an icon to its left that identifies the type of the file. These icons indicate file types as follows:

| image file | ₽ |
|--------------------|----|
| configuration file | °, |
| log file | - |
| other file types | ß |

Version

The firmware version number of the file.

Description

An Alcatel-provided description of the file. This field will supply a standard description according to the filename extension, instead of displaying "Unknown". It will display the following values when the file itself is unknown, but uses a standard extension:

.log - Log file .img - Software file .cmd - Command file

Date The date the file was loaded into the switch.

File Size (Bytes) The size of the file, in bytes.

Initiating a Backup from the Backup/Restore Tab

To initiate backups for one or more switches from the Backup/Restore tab, merely click the Backup Device icon **a**, or select **Backup** on the Resource Manager Menu, or press **Ctrl B**. The Backup Configuration Wizard opens. The first page of the Backup Configuration Wizard (shown below) enables you to select the switches that you want to backup. When the switches are selected, click the **Next** button to display page two of the Backup Configuration Wizard, which enables you to perform the backup and monitor its progress. Click here for further information on page two of the Backup Configuration Wizard.

Click the Backup Device icon. The Backup Configuration Wizard displays (shown below).

| | | | × 📥 📥 | 8 | | | | | | | |
|--------------|-----------|----------------|---------------------------|----------|-------------------|-----------|-----------------|-------|---------------|-------------------------|-----------|
| Network | Back | up/Restore | Upgrade Ir <mark>e</mark> | ackup De | vice Image Files | | | | | | |
| onfiguration | Backup | Files | | | | | | | | 13/13 🔞 🗐 | 8 1 |
| | N | lame | Address | Type | Date | | Backup Ty | pe | Version | Des | cription |
| | 🕞 On | nniSwitch 10.3 | 55.211.69 | OS6624 | Nov 2, 2005 5:14: | 20 PM | Configuration | Only | 5.1.6.310.R01 | Config backup only | |
| 1050 C | 🛛 🗑 w.T | arget 10.3 | 55.211.71 | OS9700 | Nov 3, 2005 9:53 | 43 AM | Configuration | Only | 6.1.2.58.R01 | Config file only backup |) |
| 100 | 🔛 vxT | arget 10.3 | 55.211.71 | OS9700 | Nov 16, 2005 8:04 | 4:39 PM | Full Backup - / | AJI | 6.1.1.606.R01 | OS9700 backup scher | duled for |
| | WXT | arget 10.3 | 55.211.71 | OS9700 | Nov 16, 2005 8:13 | 3:34 PM | Full Backup - / | All | 6.1.1.606.R01 | OS9700 full backup so | heduled |
| | Txr 🔞 | arget 10.3 | 55.211.71 | OS9700 | Nov 23, 2005 7:5 | 4:48 PM | Full Backup - | All | 6.1.1.606.R01 | OS9700 full backup so | heduled |
| 20 | Txy 📾 | arget 10.2 | 55.211.71 | 059700 | Nov 23, 2005 8:0 | 4:41 PM | Full Backup - | AJI | 6.1.1.606.R01 | OS9700 backup scher | duled for |
| .e | • | | | | | 1 | | | | | |
| | File Det | ails | | | | | | | | 67/67 📆 🗐 | 8 |
| - | | File Name | Dire | ctory | Version | D | escription | | Date | File Size(bytes) | |
| | V | BOOT.CFG | /flash/cer | tified | 6.1.1.606.R01 | Configu | ration File | Oct 1 | 6 08:34 | 3111 | |
| Teinet | | Jadvrout.im | q Mash/cer | tified | 6.1.1.605.R01 | Alcatel A | whanced Ro | Oct 2 | 4 16:16 | 1386811 | |
| | V | Jbase.img | /flash/cer | tified | 6.1.1.606.R01 | Alcatel E | ase Software | Oct 2 | 4 16:16 | 10996648 | |
| - | ~ | Jdiag.img | Mash/cer | lified | Unknown | Software | File : | Oct 2 | 4 16:16 | 2498310 | |
| 2 7 5 | V 1 | 🖻 Jdni.img | Mash/cer | tified | Unknown | Software | File | Oct 2 | 4 16:17 | 2327239 | |
| | ~ | 🛃 Jeni.img | /flash/cer | tified | 6.1.1.606.R01 | Alcatel N | II software | Oct 2 | 4 16:17 | 3661280 | |
| | | 🗅 Jfpga.upgr. | . Mash/cer | tified | Unknown | Unknow | 'n | Oct 1 | 8 15:39 | 1239722 | |
| ~~ | | 🛃 Jos.img | /flash/cer | tified | 6.1.1.606.R01 | Alcatel 0 |)S | Oct 2 | 4 16:17 | 1844259 | |
| | | 🗋 Jos.map | Mash/cer | tified | Unknown | Unknow | n | Oct 1 | 8 15:39 | 759847 | |
| | | 🖻 Jos2.img | Mash/cer | tified | Unknown | Software | e File | Oct 1 | 6 08:07 | 1852021 | |
| security | | 🛃 Jrelease.i | /flash/cer | tified | Unknown | Software | e File | Oct 2 | 4 16:17 | 3180 | |
| iministrat | | 🛃 Jseculing | Mash/cer | tified | Unknown | Software | e File | Oct 2 | 4 16:17 | 346183 | |
| | | | | | | | | | | | |
| | D | ate | | | Application | | | Type | | Messa | ge |
| Jan 19 17:28 | :50 PST 2 | 2006 | | Resour | ce Manager | | 💷 Info | | | Start Reading Upgrade I | mages |
| lan 19 17:28 | :53 PST 2 | 2006 | | Resour | ce Manager | | 🔘 Info | | | Completed Reading Upg | rade Ima |

Backup Configuration Wizard (Page One)

| Resource Manager Backup Cont | iguration | | | | | × |
|--|---|--|--|--|--|-------------------------------------|
| | elect Backup Met | hod | | | | |
| | | | Backup By Device | es | | |
| | | | O Backup By Maps | | | |
| | "Backup however "Backup Topology without h maps in 1 | By Devices" a once the task By Maps"can maps. The sc aving to delet Topology. | sllows you to add devices ind is scheduled the devices in be used to backup devices to ope of a scheduled backup t e and recreate the task by ad | ividually to th the task can ny linking the task can be d dding.deleting | ne backup tasi not be change backup task t lynamically m g switches to | k, xd. with odified the |
| This wizard will walk you through the process of creating/scheduling a backup for the selected switches. Click the Help button for information on creating/scheduling backup | | | | | | |
| configuration options. | < Back | Next > | Backup Configuration | Close | Cancel | Help |

Initiating a Backup from the List of All Discovered Devices

You can also initiate backups from the list of All Discovered Devices in the Topology application. To do this, follow the steps below.

1. With the Topology application current, select **Switches** in the Tree, as shown below. The list of All Discovered Devices displays.

2. Select the switches in the list of All Discovered Devices that you want to back up. To select a single switch, merely click on it. Shift-click to select multiple contiguous switches. Ctrl-click to select multiple noncontiguous switches. Then click right to display a popup menu.

3. Select **Backup Configuration** on the popup menu. The Backup Configuration Wizard opens with page two displayed. Page two of the Backup Configuration Wizard enables you to back up the selected switches and monitor the backup process. Click here for further information on page two of the Backup Configuration Wizard.

| 1. Select the tree. | switches in | | 2 . an | Selec d clic | t th k rig | e switch ht. A po | es t pup | hat ya menu | ou want to displays. |) backup | • |
|--|--|---|--|---------------------|---|---|----------------------------------|--|----------------------------------|-----------------------|---|
| 3. Select New Win | Current Window dow. | vor | 4 B | . Sele ackup | ct B Con | ackup C figuratio | onfig on W | gurati /izard | on. The displays. | | |
| Eile Applications | s ⊻jew Switches Help | | | | | | | | | | |
| | | 1 🔹 🗙 🍕 | 33 😵 😂 s | witches | | - | | | | 4 | 2 |
| Network | 🖻 Devices | All Discovered D | levices | | | | | 152 | 152 😪 🕾 🖉 | | ñ |
| Discovery | - X Manual Links - X Active Links - X Maps | Name | Address 10.255.11.10 | DNS 4 | Name | Type OS6800-48 | V 6.1.1 | ersion 502.R01 | Backup Date | Backup Vr | • |
| | - Subnets | wTarget | 10.255.11.10 10.255.11.11 | 9 | - | 0S6800-24 0S9700 | 6.1.2 6.1.1 | 130.R01 634.R01 | | | |
| Topology Locator Notifications Statistics | ► 🥳 Logical Network | no-name-1 no-name wwTarget wW_HAWK NMS_123 no-name NMS_123 no-name NMS_123 NMS_123 NMS_123 NMS_123 NMS_123 NMS-test-1 Acatel-430 4 | New Window Ping Node Poll Node Configure Traps Save to Working Reboot Copy Certified To W Copy Working To Co Inventory Mib Browser WebPage Edit Remove | forking artified | Devic Local Notifi Healt SSH Statis Local Back | e Status le on Map cations h stics te End-Station up Configurati OS6649 OS6800-24 OS6800-24 Omni-SWX OMN-5WX | 5.4.1 6.1.2 6.1.2 4.5.3 | 633.R01 170.R01 133.R04 13 633.R01 163.R02 633.R01 19.R03 99.R01 140.R01 16.R02 100 | | | |
| Administrat | Date | | Application | | | Туре | | | Mess | age | |
| Thu Jan 19 17:28: Thu Jan 19 17:28: | 50 PST 2006 53 PST 2006 | Resour | ce Manager ce Manager | 6 |) Info) Info | | | Start R Comple | eading Upgrade Med Reading Up | Images grade Image | - |

Restoring a Backup

Backups can be restored to the original switch from which the backup was taken. (Backups cannot be restored to other switches, because doing so would cause mismatched IP addresses and other network problems.) To restore a backup, follow the steps below.

1. Select the backup that you want to restore in the "Backup Files" window pane, as shown below.

2. Click the Restore Backup icon **b**, or select **Restore** on the Resource Manager Menu, or press **Ctrl R**. The Restore Backup Files window displays, as shown below.



3. If the switch is an AOS switch, click **Restore to Working Directory** or **Restore to Working & Certified Directory** on the **Restore Backup Files** window to specify the directories to which you want the backup restored. These selections are not applicable to XOS devices. All the other selected files under "switch" and "network" will go back to their respective directories on the switch. If one or more working directory files are selected, then all the files selected will go back to their respective directories on the switch. By default, the **Restore to Working Directory** radio button is selected.

4. For both AOS and XOS switches, activate checkboxes on the Restore Backup Files window to indicate the action you want taken if the following changes are detected on the switch:

- Click the **Continue to restore when chassis has changed** checkbox if you want to continue the restore even if it is found that the chassis contents, or the chassis type, has changed since the backup. If you do not enable this checkbox, the restore will not take place if the chassis has changed.
- Click the **Continue to restore when detected new image files** checkbox if you want to continue the restore even if it is found that a new image file resides on the switch (i.e., a file that were not previously backed up). If you do not enable this checkbox, the restore will not take place if a new image file is found on the switch.



5. For both AOS and XOS switches, click the **OK** button to start the restoration process. When the restore is complete, a message reports the success or failure of the operation in the status panel.

6. When the restore has successfully completed, you are prompted to reboot AOS and XOS switches to load the restored configuration into flash memory. A message similar to the following displays for AOS switches:

| Install M | tessage X |
|-----------|---|
| i | Please go to Topology App to perform "Reboot From Working" for the install to take effect |
| | OK |

AOS switches can be rebooted from OmniVista's Topology application, by connecting to the switch and using the **Load From** command. Refer to the Topology help for more information. XOS switches can be rebooted via Telnet, etc. The OmniStack 6024, 6048, 6124, 6148, and 8008 will automatically reboot without user intervention when the file transfer is complete.

Understanding the Restoration Process

Restoration Errors

Note that the status messages will report any error that occurred during the restoration process. The term *error* refers to any problem that caused the restoration to fail -- perhaps because the switch went down during the restoration process. The worst-case error is a partial restoration, which could occur if a switch goes down between the server and the target switch. The network administrator must restore the file system manually if a partial restoration occurs. Network administrators should investigate and resolve any error listed, as the presence of an error means that the configuration was incompletely or imperfectly restored.

Pre-Restoration Checks

The restoration process checks the switch for compatibility before restoring any configuration files. The following checks are made:

- chassis type has not changed
- number of slots in the chassis has not changed
- MPM module type has not changed

- modules installed in individual slots have not changed
- new image files are not present on the switch

If any of the above changes are detected, the restore will proceed, or abort, according to the checkbox settings on the Restore Backup Files window (explained above).

Restored Files on the Switch

When files are restored, the existing configuration files on the switch are overwritten. However, restored files will overwrite existing files of the same name only. If other configuration files exist on the switch, they will NOT be automatically deleted by the restoration process.

Rebooting the Switch

When the restore process is completed, the switch must be rebooted to load the restored configuration into flash memory. You can reboot AOS switches via OmniVista's **Load From** command. You can reboot XOS switches via Telnet, etc. Note that OmniStack devices (the OmniStack 6024, 6048, 6124, 6148, 6300-24, and 8008) will automatically reboot without user intervention when the file transfer is complete.

Viewing Backup and Restore Status in the Audit Application

Whenever you backup or restore a configuration, entries are made in the audit log **config.log** that document the backup or restore process. You can view these entries by going to the Audit application and selecting **config.log** under **Current Log Files** in the Tree, as shown below. Select any entry in **config.log** to display further information such as its date, type, log ID, etc.



Audit Application Entries for Saved and Restored Configurations

Deleting Backups

To delete a saved backup, merely select the backup in the "Backup Files" window pane and click the **Delete** icon X, or select **Delete** on the Resource Manager Menu, or press the **Del** key. Note that you can delete an entire backup, but you cannot selectively delete individual files in a backup.

Selecting Devices/Regions for Backup

Page Two of the Backup Configuration wizard enables you to select either devices or regions that you want to backup. This page displays either a list of the devices known to OmniVista (note that the list does not include all devices in the list of All Discovered Devices) or a list of regions (as defined in the Topology application) that is possible to back up. To select a single device/region in the list, merely click on it. Shift-click to select multiple contiguous devices/regions. Ctrl-click to select multiple non-contiguous devices/regions. Click the Next button when you have made your selections.

Note: The information fields displayed for each device are identical to those displayed in the list of All Discovered Devices. For information on these fields, refer to the Topology help.

| 🖉 Resource Manager Backup Co | nfiguration | | | | | × |
|------------------------------|----------------|---------------|-----------------|------------|---------------|---------------------------------------|
| | evices | | | | 144/144 🔞 🕈 | |
| | Name | Address | DNS Name | Type | Version | Backup D |
| | Kite_59 | 10.255.11.59 | | OS6800-48 | 6.1.2.12.R02 | |
| | Kite_60 | 10.255.11.60 | | 056800-48 | 6.1.2.37.R01 | |
| | 🖬 vxTarget | 10.255.11.61 | | 0\$6800-24 | 6.1.2.18.R02 | |
| | 🖌 vxTarget | 10.255.11.63 | | 0\$6800-24 | 6.1.2.60.R01 | _ |
| | kite2_97 | 10.255.11.97 | | 0\$6800-24 | 6.1.2.150.R01 | |
| | 🗃 falconCmm | 10.255.11.100 | | 087700 | 5.1.6.393.R01 | |
| | Kite_Fiber_U24 | 10.255.11.101 | | OS6800-U24 | 5.3.1.181.R02 | |
| | NMS_HAWK_102 | 10.255.11.102 | | OS6624 | 5.1.6.157.R02 | |
| | nms-test-103 | 10.255.11.103 | | OmniS/R-9 | 4.4.5 | |
| | 🕑 no-name | 10.255.11.104 | | 0\$6800-48 | 6.1.1.502.R01 | |
| | 🗑 vxTarget | 10.255.11.109 | | 0\$6800-24 | 6.1.2.130.R01 | |
| | 🕑 vxTarget | 10.255.11.111 | | 0\$9700 | 6.1.1.634.R01 | Jan 19, 2006 6: |
| | 😥 Kite1 | 10.255.11.112 | | 0\$6800-24 | 6.1.2.144.R01 | |
| | no-name-119 | 10.255.11.119 | | OmniS/R-5 | 4.5.2 | |
| | no-name | 10.255.11.120 | | OmniS/R-3 | 4.5.2 | |
| | 💓 vxTarget | 10.255.11.121 | | 089700 | 6.1.1.633.R01 | |
| | WV_HAWK_122 | 10.255.11.122 | | OS6648 | 5.4.1.170.R01 | |
| | NMS_123_Hawk | 10.255.11.123 | | OS6648 | 5.1.5.133.R04 | |
| | no-name | 10.255.11.124 | | OA-512 | 4.4.1 | |
| | NMS_125 | 10.255.11.125 | | 086300-24 | 2.2.0.13 | |
| | WV_FUJI1_126 | 10.255.11.126 | | 089700 | 6.1.1.633.R01 | |
| | 🗑 BS0001s | 10.255.11.127 | | 0\$7800 | 5.1.6.163.R02 | |
| | 🗑 VW_FUJI2_129 | 10.255.11.129 | | 089800 | 6.1.1.633.R01 | |
| | ES0001A-1 | 10.255.11.130 | | 0\$6648 | 5.1.6.19.R03 | |
| | Hawk_219 | 10.255.11.132 | | 086648 | 5.4.1.29.R01 | |
| This wizard will walk you | 🖌 Kite_135 | 10.255.11.135 | | OS6800-48 | 6.1.2.140.R01 | |
| through the process of | Kite2_NMS | 10.255.11.144 | | 0\$6800-24 | 6.1.2.16.R02 | |
| creating/scheduling a | NMS-test-148 | 10.255.11.148 | | Omni-5WX | 4.5.3.100 | |
| backup for the selected | no-name | 10.255.11.152 | | OA-512 | 4.3.3.118 | |
| switches. Click the Help | OmniStack 6148 | 10.255.11.154 | | OS-6148 | V3.40.21 | · · · · · · · · · · · · · · · · · · · |
| button for information on | • | | | | | - F |
| creating/scheduling backup | | | | | | |
| configuration options. | < Back N | Backa | up Configuratio | Cance | el Close | Help |

Select the devices you want to backup. Shift-click to select multiple contiguous devices. Ctrl-click to select multiple noncontiguous devices.

If **Select by region** is selected in the Backup Configuration wizard, a list containing all maps defined in Topology will be displayed. Click on the desired map. All the devices belonging to the selected map will be displayed in **Device(s) in Selected Map(s)** section.



When the devices/regions are selected for back up, and some are not on-line, then a dialog box will pop up warning you of the condition. You can cancel the backup by clicking the **Cancel** button in this dialog box.

| Resource Manager Backup C | onfiguration | | × |
|---|--------------------|-------------------------|--|
| | Configuration Para | ameter | |
| AL | Description: | Config file backups | |
| | Backup Type: | Configuration only | For AOS Devices Certified Directory Only All Directories |
| | Scheduling | | |
| | Scheduled | Backup Warning! | × |
| | Start at: | The following de | wices are not online: ns: |
| | -36014 004 | 10.255.211.77 | |
| | Message Area | ок | Cancel |
| | | | |
| | | | |
| | | | |
| | | | |
| This wizard will walk you through the process of creating/scheduling a backup for the selected switches. Click the Help | | | - |
| creating/scheduling backup | () | | |
| configuration options. | < Back | Negt > Backup Configura | tion Cancel Close Help |
| | | S 5 | |

Click to cancel the backup.

Click the **Next** button when you have made your selections.

Performing the Backup

Page Three of the Backup Configuration wizard enables you to enter a description of the firmware to be saved, specify the type of backup you want performed, select the directories that you want to back up, and initiate and monitor the backup process. You can also schedule the backup for a later time or date, if desired; and configure an incremental backup. (Note that all backups are scheduled via the Schedule application, whether they are to start immediately or not. This creates an entry in the Schedule application and enables the user to monitor the status of the save operation.)

Backup Configuration Wizard (Page Three)

| Resource Manager Backup C | onfiguration Configuration Parameter | | | | | |
|---|--|---------------------------------|--|--|--|--|
| | Description | | | | | |
| A A | scheduled backup | | | | | |
| | Backup Options Backup Type: Full Backup | | | | | |
| | For AOE Drafese | For 6200 Designe | | | | |
| | Por AGS Devices | Por ozoo Devices | | | | |
| | Certified Directory Only | Active Image Only (recommended) | | | | |
| | All Directories | Active and Inactive Images | | | | |
| | Scheduling | | | | | |
| | ✓ Scheduled | Incremental | | | | |
| | Start at: Sep 29, 2006 3:13:14 PM | Time Between Backups: | | | | |
| | Message Area | | | | | |
| | | - | | | | |
| | | | | | | |
| is wizard will walk you rough the process of | | | | | | |
| eating/scheduling a | | | | | | |
| ackup for the selected | | | | | | |
| atton for information on | | | | | | |
| eating/scheduling backup | | | | | | |
| nfiguration options. | < Back Next > Backup Co | onfiguration Close Cancel Help | | | | |

How to Backup Firmware

1. Enter a description of the firmware to be saved. If you do not enter a description, the description will display as blank description.

2. Select the type of backup from the **Backup Type** list. The types of backup are **Full Backup**, **Configuration only** and **Image only**.

The **Full Backup** setting backs up both configuration files and image files. The **Configuration only** setting backs up configuration files only. The **Images only** setting backs up image files only. Note the following:

- For AOS devices, the certified and working directories are backed up.
- For AOS devices, the Configuration only setting backs up *.cfg files only. For XOS devices, the Configuration only setting backs up *.cmd, *.cfg, and *.cnf files only.

- For both AOS and XOS devices, the **Images only** setting backs up .img files only.
- For AOS devices, the **Full Backup** setting backs up whatever files are in the certified directory of the switch.
- For XOS devices, the **Full Backup** setting backs up whatever files are in the flash memory of the primary MPM module.

Note: For the OmniStack 6024, 6048, 6124, 6148, 6300-24, and 8008, it is only possible to back up (and restore) configuration files.

3. In the **For AOS Devices** area, you can select either of the two radio buttons, **Certified Directory Only** or **All Directories**. These radio buttons will only be enabled if the devices to be backed up contain at least one AOS device and the **Full Backup** type is selected. You need to select **All Directories** if you want to back up files from the "working", "certified", "switch", and "network" directories.

A **Full Backup** will cause all files in all directories to be saved, which includes "certified", "working", "switch", and "network" directories. In the **Backup Files** table, the AOS full backups will be displayed in the **Backup Type** column as:

- Full Backup All
- Full Backup Certified Only

If you select **Certified Directory Only**, the files within the "certified" and "working" directory will be backed up. In the **Backup Files** table, **AOS Configuration only** will be displayed in the **Backup Type** column as

- Configuration only
- Configuration only Incremental

A **Directory** column showing the directory path that a file is in will be added to the **File Details** table for AOS backup entries. By default, all files except "working" directory files will be selected in the **File Details** table when the backup type is **Full Backup** – **All**. However, all files can be individually selected or deselected. During the restore operation for this backup type, if none of the files under the "working" directory is selected, the certified files will be restored either to the "working" directory only or to both the "working" and "certified" directories on the switch.

Note: Although, avlan/ is a sub-directory, it will be backed up like the other directories.

4. If you want to schedule regular backups, perform steps **a** and **b** below. Otherwise, proceed to step 5.

a. Click the **Scheduled** checkbox.

Setting Times Between Backups/Restores

1. Check the **Scheduled** box and use the pull-down menu to set the day and time. 2. Use the **Time Between Backups** pull-down menu to set the time between backups/restores.

| Start at: | Sep 30, 2006 4:05:05 PM | | Time Between Backups: | | - |
|-----------|-------------------------|--|-----------------------|--------|---|
| | | | | | - |
| | | | | 1 hour | |
| | | | | 1 day | |
| | | | | 2 days | |
| | | | | 3 days | |
| | | | | 4 days | |
| | | | | 5 days | H |
| | | | | | - |

Note: You can back up switch configuration files from either the certified or the working directory.

b. Click on the drop down list near **Start at** field. The calendar pop-up will be displayed as shown below. Use the Up/Down arrows to set the month, year, or time.

Setting the Day January 2006 Click on the day to set 8 9 10 11 12 13 14 15 16 17 18 19 20 21 the day in 22 23 24 25 28 27 28 the month. 29 30 31 Today: 1/19/06

You can also set the time between backups by selecting from **Time Between Backups** list. The valid times available are 1 hour, 1, 2, 3, 4, 5, or 6 days and 1 week.

Note: If the backup type selected in the **Backup Type** list is **Configuration only**, the **Incremental** checkbox will be enabled. If the **Incremental** option is selected, Resource Manager will initiate backup only when there are changes in switch configuration files since the last Configuration only backup. The first incremental backup will be treated as a normal 'Configuration Only' backup and any successive incremental backups will be 'Configuration Only – Incremental' backups.

5. Click the **Backup Configuration** button at the bottom of the wizard. When you click **Backup Configuration**, the backup operation is scheduled for a later time/date if you so requested. If you specified that the backup be performed immediately, AND if the device FTP Logic names and passwords for the devices were previously defined to OmniVista via the Edit Discovery Manager Entry window, the confirmation query shown below displays.



Click Yes and the backup process begins.

If the FTP Logic names and passwords for the devices were not previously defined to OmniVista via the Edit Discovery Manager Entry window, the **FTP Username Password** window displays. An example is shown below. This window queries you to supply the FTP user names and passwords required for the backup. If this window displays, perform step 6 below.

| Please speci | fy all the n | hissing FT | P login nar | ne(s)/password | d(s) | 8 11 11 |
|--------------|--------------|------------|-------------|----------------|------|----------|
| Name | A | idress | FTP | Username | FTF | Password |
| wTarget | 10.255 | 11.111 | | | | |
| vxTarget | 10.255 | 11.121 | | | | |
| | | OK | Edit | Cancel | | |

6. Select a device in the **FTP Username Password** window and click the **Edit** button. The Specify FTP Logic window displays, shown below. Enter the FTP user name and password for the selected device in the appropriate fields. If the user name and password you enter also apply to the other devices, click the **Same for all Unspecified** checkbox. Then click the **OK** button.

| | Specify FTP Lo | gin | × | |
|---------------------|---------------------------|---|--|---|
| ione P fy all th | FTP Username: | 1 | | |
| 10.2 | FTP Password: | | | FTP Password |
| 10.2 | Same for All | Unspecified | | 31 |
| | ок | Cancel | | |
| | fy all th 10.2 10.2 | FTP Username: 10.2: 10.2: Same for All OK | Specify FTP Login FTP Username: FTP Username: FTP Password: Same for All Unspecified OK Cancel | Specify FTP Login Specify FTP Login FTP Username: T0.2: Same for All Unspecified OK Cancel |

If necessary, continue to enter FTP user names and passwords until they have been specified for all devices listed. When all user names and passwords have been specified, the confirmation query shown below displays



Click Yes and the backup process begins.

Monitoring the Backup Process

If you leave the Backup Configuration Wizard open, you can view status messages that document the backup process as it occurs (shown below). Note that the backup operation will continue even if the Backup Configuration Wizard is closed.

| 🙋 Resource Manager Backup C | onfiguration | × | | | | | |
|---|---|---|--|--|--|--|--|
| | Configuration Parameter | | | | | | |
| | weekly backup | | | | | | |
| 1 | Backup Options | | | | | | |
| | Backup Type: Full Backup 💌 | | | | | | |
| | For AOS Devices | For 6200 Devices | | | | | |
| | Certified Directory Only | Active Image Only (recommended) | | | | | |
| | All Directories | O Active and Inactive Images | | | | | |
| | Scheduling | | | | | | |
| | Scheduled | Incremental | | | | | |
| | Start at: Oct 4, 2006 6:59:39 PM | Time Between Backups: | | | | | |
| | Message Area | | | | | | |
| | [6:59:48 PM] > Saving the configuration | ^ | | | | | |
| | <pre>[6:59:51 PM] > Starting to backup config [6:59:51 PM] > Begin backup configuration</pre> | guration for device: 10.255.11.194 on for device: 10.255.11.194 as (weekly | | | | | |
| This sector dealers in a sector | backup) | | | | | | |
| This wizard will walk you through the process of | [6:59:55 PM] > saved file(/flash/certified/boot.cfg) from Device: 10.255.11.194 | | | | | | |
| creating/scheduling a | <pre>[6:59:55 PM] > saved file(/flash/certified/boot.cfg.bak) from Device: 10.255.11.194</pre> | | | | | | |
| backup for the selected | [6:59:57 PM] > saved file(/flash/certif | ied/bootrom.bin) from Device: | | | | | |
| switches. Click the Help button for information on | 10.255.11.194 | • | | | | | |
| creating/scheduling backup | C Back Novt > Declam Confi | uration Close Cancel Hole | | | | | |
| configuration options. | < Back Nežr > Backnb coulit | uration close cancel <u>H</u> elp | | | | | |

Status Messages in the Backup Configuration Wizard

Status messages documenting the backup process as it occurs also display in the Status Panel (shown below).

Viewing Backup Entries in the Audit Application

Whenever you back up a switch, entries documenting the backup process are made in the audit log **config.log**. You can view these entries by going to the Audit application and selecting **config.log** under **Current Log Files** in the Tree, as shown below.



Audit Application Entries for Configuration Backups

Important Facts About Backing Up

When performing a backup, firmware configuration files are FTPed from the switch to the OmniVista server. To gain access to the switch, the FTP user name and password must to known to OmniVista. You can specify FTP user names and passwords via the Edit Discovery Manager Entry window. (See the Topology help for further information.) If you did not define FTP Logic names and passwords via the Edit Discovery Manager Entry window, and you attempt to save or restore configuration files, you will be queried for the FTP Logic name and password of each individual switch for which configuration files are being saved or restored. This is described above. If the FTP Logic name and password are not supplied to OmniVista, the FTP process will return errors and the configuration of the switch will not be backed up. The process of backing up the configurations of other switches will continue.

Firmware is automatically copied and restored via FTP, and any errors that can occur when performing these tasks outside of OmniVista are also possible when using OmniVista.

If a backup operation fails in the middle of the backup operation (which could occur if a switch goes down between the server and the target switch), no configuration files are saved on the server. If the full complement of configuration files are not saved, any initial files that were saved are deleted from the server.

Backups of AOS devices include the contents of the certified directory and working directory. The files saved for XOS devices are listed in the XylanChasFFSTable. Only files in the flash memory of the primary MPM module are saved. No files are saved that end with **.err**, **.dmp**, */..*, or */.*, as these files are either temporary or will cause problems during the FTP process due to conflict with system file names.

Important Notes: The configuration files saved are those in flash memory and are not necessarily the configuration files that the switch is currently running. At present, the files are not zipped to save disk space on the OmniVista server. The user may perform multiple backups on the same day, if so desired.

Users should not attempt to copy configuration files saved on the OmniVista server to other machines. The saved files contain binary configuration information, including the IP address/MAC address of the source machine, and using these files on another machine could bring the network down.

Note: SFTP will be used when a device is configured in OmniVista to use SSH. If a device is configured to use SSH in OmniVista, SSH must be enabled on the device itself.

Upgrade Image Tab

The Upgrade Image tab enables you to upgrade software, firmware, and FPGA (9000 series only) files. Import the latest files from the Customer Support Web Site and use the "Upgrade Software" Wizard to upgrade a switch(es). As shown below, the top pane of the Upgrade Image tab, labeled "Upgrade Files," lists the imported firmware packages that currently exist on the server. When you select an import package in the "Upgrade Files" area the individual files will be listed in the bottom pane, labeled "File Details".

Caution: Never attempt to import or install firmware files or upgrade packages acquired from any source other than Alcatel Customer Service. Image and Firmware files are specially packaged by Alcatel Customer Server for importation into OmniVista, and contain an LSM file that describes the package contents to OmniVista. Installing new images files in XOS devices may cause configuration incompatibilities. Always check with Alcatel Customer Support before installing new images files in XOS devices to ensure that the image files being installed are compatible.

Resource Manager will prevent unsupported upgrades. When such an attempt is made, a message box informing that the upgrade has been rejected is displayed. This message box also displays details of the versions of the switch software required to successfully perform the upgrade.

Note: You must first complete the BootROM/Miniboot, U-Boot/Miniboot upgrade before upgrading the FPGA or image files. If you are upgrading a 6800 series switch, you must first upgrade the 5.3.1 software to 5.3.1.231.R02 or later.

| Eile Application: | s View ResourceManager I | Hel <u>p</u> | | | | | |
|-------------------|--------------------------|-------------------|-----------------------|----------------|--------------|---------------------|----------------------|
| | | d ? | | | | a | |
| Network | Backup/Restore Upgrade | Image Invento | iry | | | | |
| Configuration | Upgrade Files | | | | | 44 😘 📾 🖪 🎹 🖽 | |
| | Туре | | Date | Ven | sion | Description | List of imports by |
| | S OmniSwitch7xx | Jan 23, 2006 | 1:40:42 PM | 5.1.6.87.R02 | AOS | 5.1.6.87.R02 | device type Select |
| | OmniSwitch7xx | Jan 23, 2006 | 1:41:38 PM | 5.1.6.154.R0 | 2 AOS | 5.1.6.154.R02 | device type. Select |
| | 🗑 OmniSwitch7xxx | Jan 23, 2006 4 | 1:42:12 PM | 5.1.5.54.R04 | AOS | 5.1.5.54.R04 | an import to view |
| | S OmniSwitch9xx | Jan 23, 2006 / | 1:42:54 PM | 6.1.1.633.R0 | 1 AOS | 6.1.1.633.R01 | dataile halow |
| VLANS | File Details | | | | [1 | 0/10 🥱 🗟 🗒 🎛 | |
| | File Name | Version | Descri | ption | Date | File Size(bytes) | |
| Telnet | 🗹 🛃 Jadvrout.img | 6.1.1.633.R01 | CMM Advanced Rou | rting | Dec 23, 2005 | 1387793 | |
| | 🖌 🛃 Jbase.img | 6.1.1.633.R01 | CMM Base | | Dec 23, 2005 | 11011644 | A detailed list of |
| - | 🖌 🔄 Jdiag.img | 6.1.1.633.R01 | CMM Diagnostics | | Dec 23, 2005 | 2499849 | |
| 375 | 🗹 💽 Jdni.img | 6.1.1.633.R01 | NI Diagnostics | | Dec 23, 2005 | 2331737 | The individual files |
| Defendation Conf. | 🖌 🛃 Jeni.img | 6.1.1.633.R01 | NI image for all Ethe | ernet-type NIs | Dec 23, 2005 | 3669114 | in the import |
| | 🗹 🗋 Jfpga.upgrade_kit | 6.1.1.633.R01 | fpga upgrade kit firn | nware | Dec 15, 2005 | 1239739 | |
| | 🕑 🛃 Jos.img | 6.1.1.633.R01 | CMM Operating Sys | tem | Dec 23, 2005 | 1852473 | selected above. |
| ÷ | 🕑 🛃 Jrelease.img | 6.1.1.633.R01 | Release Archive | | Dec 23, 2005 | 3145 | |
| Security | 🗾 🛃 Jsecu.img | 6.1.1.633.R01 | CMM Security (AVLA | INS) | Dec 23, 2005 | 346180 | |
| Administrat | miniboot.uboot | 6.1.1.633.R01 | miniboot firmware | | Dec 15, 2005 | 837439 | |
| A. T | | | | | | | |
| | Date | 1 Northeast Color | Application | | Туре | Mes: | |
| Mon Jan 23 16:43 | 3:13 PST 2006 | Resource | Manager | Info | | Add Upgrade Image 0 | |
| 4 | | | | | |) | |
| Status Notif | antione | | | | | | |
| aracus Notin | cauona | | | | | | |

Upgrade Image Tab

Importing the Upgrade Files

All upgrade files supplied by Alcatel Customer Service are packaged as WinZip executables and have a .zip file extension. Do not attempt to unzip the firmware files manually. Import the WinZip executable and OmniVista will automatically unzip the executable as part of the import process.

1. Download the upgrade files to your PC.

2. With the Upgrade Image tab displayed, click the Import Image icon 📓 , or select Import on the Resource Manager menu, or press Ctrl + I. The Import Switch Software window is displayed.

| Omni¥ista 250 | 0 - Application: R | esource Manag | jer Window:0 | | | |
|---------------|--|---|--|------------|--------|--|
| Application | s View Resour | ceManager, H | lelp | | | |
| | | | 2 | | | |
| Network | Backup/Rest | 🖉 Import Swite | ch Software | | × | |
| Configuration | Upgrade Files T OmniSwitc OmniSwitc OmniSwitc G OmniSwitc File Details File | Look In: Adobe Bluetooth My Captiva My eBooks My Music My Picture My Webs | My Documents Snaglt Catalog ate Projects is es | • 1 | | ption 02 R02 04 R01 |
| Global GoS | ✓ Jadvroi ✓ Jbase.i ✓ Jdiag.ir ✓ Jdni.im ✓ Jeni.im ✓ Jrjpga.u | File <u>N</u> ame: Files of <u>Ty</u> pe: | Zip Files (zip) | Import | Cancel | 130 110 249 233 360 123 |

3. In the Import Switch Software window, navigate to the location of the zipped firmware files and select a .zip executable. Then click the **Import** button. The import process begins immediately.

| Import Swite | ch Software | × |
|--|--|--|
| Look (n: 🗖 | Switch Software 🔽 🖬 🗂 🕄 | 8 8- |
| 057_5.1.6 057_516 057_516 057_5_1 05_9_611 | .87.R02.zip 154_R02.zip 5_R04_GA.zip J_R01_GA.zip | Navigate to the location of the zipped image files and select a .zip executable. |
| File <u>N</u> ame: | 087_5.1.6.87 R02 zip | |
| Files of Type: | Zip Files (zip) | - |
| | Import Car | ncel |

Messages in the Status Panel report the start, progress, and finish of the import process, and report any error that may occur. When the process is complete, the imported firmware files are listed in the Upgrade Image tab.

| Date | Application | Type | Message |
|------------------------------|------------------|------|---|
| Mon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-OS_9_611_R01_GA.zip:Starting Import In |
| Mon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-Copying OS_9_611_R01_GA.zip into service |
| Mon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-Done Copying OS_9_611_R01_GA.zip int |
| Mon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-OS 9_611_R01_GA.zip :copied (softwar |
| Mon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-OS_9_611_R01_GA.zip :Parsing (softwa |
| Mon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-OS_9_611_R01_GA.zip: copied (miniboo |
| Mon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-OS_9_611_R01_GA.zip: copied (Jadvrou |
| Mon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-OS_9_611_R01_GA.zip: copied (Jbase.ir |
| Aon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-OS_9_611_R01_GA.zip: copied (Jdiag.in |
| Aon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-OS_9_611_R01_GA.zip: copied (Jdni.img |
| Aon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-OS_9_611_R01_GA.zip: copied (Jeni.im) |
| Mon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-OS_9_611_R01_GA.zip: copied (Jfpga.u |
| Mon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-OS_9_611_R01_GA.zip: copied (Jos.img |
| Mon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-OS_9_611_R01_GA.zip: copied (Jrelease |
| Mon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-OS_9_611_R01_GA.zip: copied (Jsecu.ir |
| Mon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-OS_9_611_R01_GA.zip :Finished Import |
| Aon Jan 23 16:43:10 PST 2006 | Resource Manager | Info | RM-OS_9_611_R01_GA.zip :Add Upgrade Im |
| Mon Jan 23 16:43:13 PST 2006 | Resource Manager | Info | Add Upgrade Image OmniSwitch9xxx |

Import Status Messages in the Status Panel

Installing the Upgrade Files

Follow the steps below to install the upgrade files.

1. In the "Upgrade Files" window pane, select the desired import. The individual image files contained in the import display in the "File Details" window pane. By default, the "select" checkbox by each image file (shown below) is enabled and the "select" checkbox by each BMF file on AOS switches is disabled. Only selected files will be installed.

2. Click to deactivate the "select" checkbox by any individual image file that you do NOT want installed.

3. Click the Install New Image Files icon 📾 , or select **Install** on the Resource Manager Menu, or press **Ctrl L**. The Install Upgrade Software Wizard opens. The first page of the Wizard (shown below) lists all devices that qualify for installation of the selected image files. Select the device or devices in which you want to install the files. When your selections are complete, click the Next button to display page two of the Wizard, which enables you to perform the installation and monitor its progress.

| | | | | 3. Click Upgro | the Insta ide Softw | ll New Imag vare Wizard | e Files icon. displays (st | The Install nown below). |
|---|----------------------|-----------|--|-------------------|------------------------|---------------------------------|-------------------------------|-----------------------------|
| | Elle Application | s View | BesourceManager | 81 8 | | | | 8 |
| | Network | Back | kup.Restore Upgrade | In Sall New Ima | ge Files | | | |
| | Configuration | Upgra | de Files | | | | | 44 😪 🕾 🗛 🎟 🖽 |
| 0 0 10 m h h h h h | | op.gr.s | Type | | Date | Ver | sion | Description |
| Select the import – | | - 😼 OI | mniSwitch7xxx | Jan 23, 2006 4 | :40:42 PM | 5.1.6.87.R02 | AOS 5 | .1.6.87.R02 |
| that contains the | 4 655 | 😼 Or | mniSwitch7xx | Jan 23, 2006 4 | :41:38 PM | 5.1.6.154.R0 | 12 AOS 5 | i.1.6.154.R02 |
| mar comans me | | 0 | mniSwitch7xxx | Jan 23, 2006 4 | :42:12 PM | 5.1.5.54.R04 | AOS 5 | i.1.5.54.R04 |
| firmware files you | Resource Manager | 0 | mniSwitch9xx | Jan 23, 2006 4 | :42:54 PM | 6.1.1.633.R0 | 01 AOS 6 | .1.1.633.R01 |
| want to install. | 80 | File De | itails | | | | 20 | 20 😨 🕾 📇 🎛 |
| | 82 | | File Name | Version | | Description | Date | File Size(bytes) |
| | VLANS | | bootrom.bin | 5.1.6.87.R02 | bootrom firm | ware | Aug 11, 2004 | 422032 - |
| | | | Fadvrout.img | 5.1.6.87.R02 | CMM Advance | ed Routing | Jun 27, 2005 | 984801 |
| | _ e d | | Fbase.img | 5.1.6.87.R02 | CMM Base | | Jun 27, 2005 | 4300445 |
| | | | Fdiag.img | 5.1.6.87.R02 | CMM Diagno | stics | Jun 27, 2005 | 331338 |
| a distant descriptions | | | 🖻 Feni.img | 5.1.6.87.R02 | NI image for | all Ethernet-type Nis | Jun 27, 2005 | 1308842 |
| 2. CIICK TO DEACTIVATE - | _ | | 🗋 Ffpga.upgrade_kit | 5.1.6.87.R02 | fpga upgrade | kit firmware | Apr 27, 2005 | 1520343 |
| the "select" check- | 23 | | Fl2eth.img | 5.1.6.87.R02 | CMM Layer 2 | and Ethernet drivers | Jun 27, 2005 | 987208 |
| have been and firm | 46 | | Fos.img | 5.1.6.87.R02 | CMM Operati | ng System | Jun 27, 2005 | 1495009 |
| box by any firm- | | | Fqos.img | 5.1.6.87.R02 | CMM Quality | of Service | Jun 27, 2005 | 313011 |
| ware file you do | | | Frelease.img | 5.1.6.87.R02 | Release Arcr | ING and IDAA | Jun 27, 2005 | 5521 |
| not want to install | · · | | Frouting | 5.1.6.87.R02 | CMM Rousing | (IP and IPA) | Jun 27, 2005 | 120233 |
| nor want to install. | Security | - | Fseculing Event image | 5.1.6.87.R02 | CMM Mobula | (AVLANS) | Jun 27, 2005 | 130240 |
| | 0 devicient at | | Fwebling Ewebadyroutime | 5.1.6.07.R02 | CMM Webvie | w - main w - Advance Routing | Jun 27, 2005 | 240810 |
| | A 7 | | 1.1 F Prevalant valanta | 19.1.0.01.1104 | Comm Trewrite | H - ZWENDAR TOWNED | 10011 21 . 2003 | |
| | - | | Data | | - U. adian | Ter I | Maa | |
| | 10011 2011 2.3 10:41 | . 10 * 31 | 2000 | neaourcei | nonoger | uning in a | mesi | sage |
| | Mon Jan 23 16:43 | 3:10 PST | 2006 | Resource | fanager | Info RA | 4-OS_9_611_R01_G | A.zip :Add Upgrade Im 듣 |
| | Mon Jan 23 16:43 | 3:13 PST | 2006 | Resource | lanager | Info Ad | ld Upgrade Image O | mniSwitch9xxx 💌 |
| | Status Notifi | cations | | | | | | |

1.

| 🧖 Install Upgrade Software | | | | | | | × |
|---|---------------|-----------------|-------------|---------|---------------|-------------------------|-------|
| | Devices | | | | | 10/10 🕱 🕾 📇 🖽 | |
| | Name | Address | DNS Name | Туре | Version | Backup Date | Bac |
| | 🙀 vxTarget | 10.255.11.111 | | 0S9700 | 6.1.1.634.R01 | Jan 19, 2006 6:03:02 PM | 6.1.1 |
| | 🖬 no-name | 10.255.11.121 | | 0\$9700 | 6.1.1.633.R01 | | |
| | WV_FUUI1_126 | 10.255.11.126 | | 089700 | 6.1.1.633.R01 | | |
| | WV_FUJI2_129 | 10.255.11.129 | | 039800 | 6.1.1.633.R01 | | |
| | 🖬 fuji-161 | 10.255.11.161 | | 089700 | 6.1.1.631.R01 | | |
| | w/Target | 10.255.11.219 | | 059700 | 6.1.1.631.R01 | | |
| | no-name | 10.255.13.31 | | 089700 | 6.1.1.633.R01 | | |
| | NetCore1Fuji1 | 10.255.13.93 | | 089700 | 6.1.1.631.R01 | | |
| | wTarget | 10.255.211.70 | | 059700 | 6.1.1.631.R01 | | |
| | wTarget | 10.255.211.71 | | 089700 | 6.1.1.632.R01 | Jan 4, 2006 8:13:35 PM | 6.1.1 |
| This wizard will walk you | | | | | | | |
| through the process of Installing a new images for the selected switches. Click | | | | | | | |
| information on Installier | • | | | | | | |
| new images options. | < Back | Ne <u>x</u> t > | Install Sot | tware | Cancel | Close Help | |

Install Upgrade Software Wizard (Page One) Page One lists all devices that qualify for installation of the selected files.

4. Select an Installation Option.

- Upgrade BMF Files Upgrade the BootROM, MiniBoot, or FPGA files (AOS switches only).
- Upgrade Images Files Upgrade the image files on the switch(es) (Default) .
- **U-Boot Upgrade on all NIs** Perform u-boot upgrade for all the NIs on the switch(es) (9000 series switches only).
- 6200 Device(es) Installation Options (6200 Devices Only).
 - Upgrade Master Unit Only Upgrade the image files on the master switch in the stack.
 - Upgrade All NIs in Stack Upgrade the image files on all switches in a stack.

| 🛃 Install Upgrade Software | | | | | × |
|-----------------------------|-----------------------|-----------------|------------------|------------------------|-------------------|
| | Software Install Para | ameter | | |] |
| | Files To Install | | 1/1 💐 | | |
| | File Name | Version | Description | Date | File Size(bytes) |
| | software.img 1. | 0.0.11-1.0.2.38 | software file | Nov 7, 2006 3:53:38 PM | 3746645 |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| | Installation Options | ı. | | 6200 device(s) Ins | tallation Options |
| | O Lingrade RME fil | | t Unorado on All | Nile O Lingrado Ma | ster Unit Only |
| | U Opgi ade Dinir fi | ies0-000 | copyrate on All | This Opgrade ina | ster onic only |
| | Upgrade Image | Files | | Upgrade All | Units in Stack |
| | Message Area | | | | |
| | | | | | - |
| This wizard will walk you | | | | | |
| through the process of | | | | | |
| Installing a new images for | | | | | |
| the Help button for | J | | | | <u> </u> |
| information on Installing | | | | |][] |
| new images options. | < Back | Ne <u>x</u> t > | stall Software | Close Cancel | Help |

Install Upgrade Software Wizard (Page 2) Page 2 enables you to perform the upgrade and monitor its progress.

Warning: Do **not** attempt to use the BMF option on an AOS switch unless it has already been upgraded to 5.1.5.R03 or later image files.

Note: The "U-boot Upgrade on All NIs" option will only be enabled when the imported software files to be installed on the switch are for OS9000 devices.

5. Select "Install Software" to begin the installation process immediately.

Note: Click here for information on page two of the Install Upgrade Software Wizard on image files or click here for information on page two of the Install Upgrade Software Wizard on BMF (BootROM, MiniBoot, and FPGA) files.

Deleting Imported Firmware Files

To delete imported firmware files from the OmniVista server, merely select the import in the "Upgrade Files" window pane and click the **Delete** icon \bowtie , or select **Delete** on the Resource Manager Menu, or press the **Del** key. Note that you can delete an entire import, but you cannot selectively delete individual files in an import.

Selecting Devices for Image Upgrades

The first page of the Install Upgrade Software Wizard, shown below, lists all known devices that qualify for installation of the selected image files. Select the device or devices in which you want to install the files. To select a single device in the list, merely click on it. **Shift**-click to select multiple contiguous devices. **Ctrl**-click to select multiple non-contiguous devices. Click the **Next** button when you have made your selections.

Note: The information fields displayed for each device are identical to those displayed in the list of All Discovered Devices. For information on these fields, refer to the Topology help.

| 🧖 Install Upgrade Software | | | | | | | × |
|--|---------------|-----------------|-------------|--------|---------------|-------------------------|-------|
| | Devices | | | | | 10/10 🔞 📾 📰 🖽 | |
| | Name | Address | DNS Name | Type | Version | Backup Date | Bac |
| | 🙀 vxTarget | 10.255.11.111 | | 089700 | 6.1.1.634.R01 | Jan 19, 2006 6:03:02 PM | 6.1.1 |
| | 🗑 no-name | 10.255.11.121 | | 089700 | 6.1.1.633.R01 | | |
| | WV_FUUI1_126 | 10.255.11.126 | | 0S9700 | 6.1.1.633.R01 | | |
| | WV_FUJI2_129 | 10.255.11.129 | | 059800 | 6.1.1.633.R01 | | |
| | 😭 fuji-161 | 10.255.11.161 | | 089700 | 6.1.1.631.R01 | | |
| | 😭 vxTarget | 10.255.11.219 | | 059700 | 6.1.1.631.R01 | | |
| | 🖬 no-name | 10.255.13.31 | | OS9700 | 6.1.1.633.R01 | | |
| | NetCore1Fuji1 | 10.255.13.93 | | 089700 | 6.1.1.631.R01 | | |
| | wTarget | 10.255.211.70 | | 059700 | 6.1.1.631.R01 | | |
| | w vxTarget | 10.255.211.71 | | 089700 | 6.1.1.632.R01 | Jan 4, 2006 8:13:35 PM | 6.1.1 |
| This unitary will write any | | | | | | | |
| through the process of Installing a new images for the selected switches. Click the Help button for | | | | | | | |
| information on Installing new images options. | < Back | Ne <u>x</u> t > | Install So(| tware | Cancel | Close Help | |

Install Upgrade Software Wizard (Page One) Page One lists all devices that qualify for installation of the selected files.

Click the Next button when you have made your selections.

Installing the Image Files

The second page of the Install Upgrade Software Wizard, shown below, enables you to install the image files and monitor the installation process. Installation of image files takes place immediately when initiated; installation of image files cannot be scheduled for a later time or date. Note that image files will be installed into the working directory of AOS devices.

Caution for XOS Devices: Installing new images files in XOS devices may cause configuration incompatibilities. Always check with Alcatel Customer Support before installing new images files in XOS devices to ensure that the image files being installed are compatible with image files resident in the device.

Install Upgrade Software Wizard (Page 2) Page 2 enables you to perform the upgrade and monitor its progress.

| 🙋 Install Upgrade Software | | | | | × |
|------------------------------|---------------------|-------------------|------------------|------------------------|-------------------|
| | Software Install P | arameter | | | |
| | Files To Install | | 1/1 🔇 | | |
| | File Name | Version | Description | Date | File Size(bytes) |
| 17TSA | 🖻 software.img | 1.0.0.11-1.0.2.38 | software file | Nov 7, 2006 3:53:38 PM | 3746645 |
| | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | |
| | -Installation Ontio | ine | | 6200 device(s) los | tallation Ontions |
| | macanadon opuo | 115 | | 0200 00000(3) 112 | Adiiduon Options |
| | Upgrade BMI | Ffiles U-boo | t Upgrade on All | NIs O Upgrade Ma | ster Unit Only |
| | Unorado Ima | no Filoe | | Unerado All | Unite in Stack |
| | · upgraue ima | gernes | | Opgi aue All | Units in Stack |
| | Message Area | | | | |
| | | | | | |
| This wizard will walk you | | | | | |
| through the process of | | | | | |
| Installing a new images for | | | | | 10 m |
| the selected switches. Click | | | | | • |
| the Help button for | li. | | | | |
| new images ontions | < Back | Novts | etall Software | Close | Hole |

How to Install Image Files

Make sure that the "Upgrade Image Files" button is selected. Next, click the **Install Software** button at the bottom of the Wizard. If the device FTP login names and passwords for the devices were previously defined to OmniVista via the Edit Discovery Manager Entry window, the confirmation query shown below displays.

| Warning | 9 | × |
|---------|--|---------|
| ? | Do you want to continue and install configuration of selected de | vices?? |
| | Yes No | |

Click Yes and the installation process begins.

If FTP User Names/Passwords are Undefined

If the FTP user names and passwords for the devices were not previously defined to OmniVista via the Edit Discovery Manager Entry window, the FTP User Name Password window displays. An example is shown below. This window queries you to supply the FTP user names and passwords required for the backup.

| Please speci | fy all the m | issing FT | P login nar | ne(s)/passwor | d(s) | 8 HIL |
|------------------|-------------------------|-----------|-------------|---------------|------|----------|
| Name w/Target | Address 10.255.11.61 | | FTP | FTP Username | | Password |
| | | ок | Edit | Cancel | | |

To supply the FTP user name and password for a device, select the device in the FTP User Name Password window and click the **Edit** button. The Specify FTP Login window displays, shown below. Enter the FTP user name and password for the selected device in the appropriate fields. If the user name and password you enter also apply to the other devices, click the **Same for all Unspecified** checkbox. Then click the **OK** button.

| | | 🖉 Spec | ify FTP Lo | ngin | × | |
|----------------------------|----------|--------|-----------------------|-------------|---|--------------|
| FTP Usern Please specif | y all th | FTP Us | ername: | L | | |
| Name wTarget | 10.2 | FTP Pa | issword: me for Al | Unspecified | | FTP Password |
| | _ | | ОК | Cancel | | |

If necessary, continue to enter FTP user names and passwords until they have been specified for all devices listed. When all user names and passwords have been specified, the confirmation query shown below displays

| Warning | 9 | × |
|---------|---|--------|
| ? | Do you want to continue and install configuration of selected dev | ices?? |
| | Yes No | |

Click Yes and the backup process begins.

If Version Numbers are Older

If the image files being installed have an older version number (or the same version number) than the image files currently resident on the device, a message similar to the following displays. Note that installing older versions of image files may result in a loss of functionality or, in the case of OmniStack devices, the resetting of device parameters. Click **Yes** if you wish to perform the installation anyway. Click **No** to cancel the installation.

| Upgrade | z Image |
|---------|--|
| ? | The following switch(es) have either an unknown software version or a newer or same version software of the new upgrade software. 10.255.11.111: newer version |
| | Do you want to continue install? |
| | Yes |

When the Installation Completes

When the install has successfully completed, you are prompted to reboot both AOS and XOS switches. Remember that image files are installed into the working directory of AOS devices. After the installation completes, you should reboot AOS switches using the **Load From Working** command. You may also want to save the working directory to the certified directory. You can perform these tasks by connecting to the switch from OmniVista's Topology application. (To connect to a switch, merely select it in the Topology application's Tree. Refer to the Topology help for more information.) You can reboot XOS switches via Telnet, etc. Note that OmniStack devices (the OmniStack 6024, 6048, 6124, 6148, 6300-24, and 8008) will automatically reboot without user intervention when the installation is complete.

Monitoring the Installation Process

If you leave the Install Upgrade Software Wizard open, you can view status messages that document the installation process as it occurs. An example is shown below. Note that the install operation will continue even if the Wizard is closed.

| nstall Upgrade Software | | | | | | | | |
|---|---|-------------------------------|--|------------------|---------|--|--|--|
| | Software Install Para | meter | | | | | | |
| | Files To Install | | 16 | 16 🔞 🗟 🖨 | | | | |
| | File Name | Version | Description | Date | File Si | | | |
| | Fadvrout.img | 5.1.6.87.R02 | CMM Advanced Routing | Jun 27, 2005 | | | | |
| | Fbase.img | 5.1.6.87.R02 | CMM Base | Jun 27, 2005 | | | | |
| | Fdiag.img | 5.1.6.87.R02 | CMM Diagnostics | Jun 27, 2005 | | | | |
| | Fenilimg | 5.1.6.87.R02 | NI image for all Ethernet-type NIs | Jun 27, 2005 | | | | |
| | FI2eth.img | 5.1.6.87.R02 | CMM Layer 2 and Ethernet drivers | Jun 27, 2005 | | | | |
| - INC | Fos.img | 5.1.6.87.R02 | CMM Operating System | Jun 27, 2005 | | | | |
| | Fqos.img | 5.1.6.87.R02 | CMM Quality of Service | Jun 27, 2005 | | | | |
| | Frelease.img | 5.1.6.87.R02 | Release Archive | Jun 27, 2005 | | | | |
| I | Frout.ima | 5.1.6.87.R02 | CMM Routing (IP and IPX) | Jun 27, 2005 | | | | |
| | Fsecu.img | 5.1.6.87.R02 | CMM Security (AVLANS) | Jun 27, 2005 | | | | |
| | Fweb.img | 5.1.6.87.R02 | CMM Webview - Main | Jun 27, 2005 | | | | |
| I | Fwebadvrout.img | 5.1.6.87.R02 | CMM Webview - Advance Routing | Jun 27, 2005 | | | | |
| | Fwebl2eth.img | 5.1.6.87.R02 | CMM Webview - Laver 2 and Ethernet drivers | Jun 27, 2005 | | | | |
| | Fwebaos.ima | 5.1.6.87.R02 | CMM Webview - Quality of Service | Jun 27, 2005 | | | | |
| | Fwebrout.img | 5.1.6.87.R02 | CMM Webview - Routing | Jun 27, 2005 | | | | |
| I | Fwebsecu.img | 5.1.6.87.R02 | CMM Webview - Security | Jun 27, 2005 | | | | |
| I | | | | | | | | |
| I | | | | | | | | |
| I | Installation Options | | | | | | | |
| | O Upgrade BMF files | | | | | | | |
| | | | Upgrade Image Files | | | | | |
| l walk you | Message Area | | | | | | | |
| process of new images for I switches. Click | [5:30:37 PM] > I Configuration (A | nstall confi .03 5.1.6.87. | guration for device: 10.255.211.150 R02) taken at: Jan 23, 2006 4:40:42 | from Saved PH | ļ | | | |
| nton for n on Installing es options. | <back< td=""><td>Ne<u>x</u>t ></td><td>Install Software Cancel Close</td><td>e <u>H</u>elp</td><td></td></back<> | Ne <u>x</u> t > | Install Software Cancel Close | e <u>H</u> elp | | | | |

Status Messages in the Install Upgrade Software Wizard

Status messages documenting the installation process as it occurs also display in the Status Panel. An example is shown below.

| | oraras | messa | | | |
|------------------------------|------------------|--------|---|---------|----------|
| Date | Application | Туре | Message | Ì | , |
| Mon Jan 23 17:35:26 PST 2006 | Resource Manager | Info | RM-copying (/flash/working/Ewebgos.img) to device: 10.255.211.150 | | |
| Mon Jan 23 17:35:30 PST 2006 | Resource Manager | Info | RM-copied (/flash/working/Fwebgos.img) to device: 10.255.211.150 | | |
| Mon Jan 23 17:35:30 PST 2006 | Resource Manager | Info | RM-Removing remote file (flash/working/Fwebrout.img) from device: 10.255.21 | | |
| Mon Jan 23 17:35:30 PST 2006 | Resource Manager | Info | RM-Remote file (/flash/working/Fwebrout.img) removed from device: 10.255.21 | | |
| Mon Jan 23 17:35:35 PST 2006 | Resource Manager | Info | RM-copying (/flash/working/Fwebrout.img) to device: 10.255.211.150 | | |
| Mon Jan 23 17:35:40 PST 2006 | Resource Manager | 🕲 Info | RM-copied (/flash/working/Fwebrout.img) to device: 10.255.211.150 | Status | maccoac |
| Mon Jan 23 17:35:40 PST 2006 | Resource Manager | Info | RM-Removing remote file (flash/working/Fwebsecu.img) from device: 10.255.2 | Sidius | messuges |
| Mon Jan 23 17:35:40 PST 2006 | Resource Manager | Info | RM-Remote file (/flash/working/Fwebsecu.img) removed from device: 10.255.2 | docum | ent the |
| Mon Jan 23 17:35:45 PST 2006 | Resource Manager | 🕲 Info | RM-copying (/flash/working/Fwebsecu.img) to device: 10.255.211.150 | install | maaadd |
| Mon Jan 23 17:35:48 PST 2006 | Resource Manager | Info | RM-copied (/flash/working/Fwebsecu.img) to device: 10.255.211.150 | Install | process. |
| Mon Jan 23 17:35:48 PST 2006 | Resource Manager | 💿 Info | RM-Executing an Install Command | | |
| Mon Jan 23 17:35:48 PST 2006 | Resource Manager | Info | RM-Completed executing an Install command | | |
| Mon Jan 23 17:35:48 PST 2006 | Resource Manager | Info | RM-Install configuration for device: 10.255.211.150 from Saved Configuration (a | | |
| Mon Jan 23 17:35:48 PST 2006 | Resource Manager | 🕲 Info | RM-Please go to Topology App to perform "Reboot From Working" for the insta | | |
| Mon Jan 23 17:35:48 PST 2006 | Resource Manager | Info | RM-Finished Install Software. The number of devices that had errors is: 0 out d | | |
| Status Notifications | | | | | 1 |

Status Messages in the Status Panel

Viewing Install Entries in the Audit Application

Whenever you install new image files, entries are made in the audit log **config.log**. You can view these entries by going to the Audit application and selecting **config.log** under **Current Log Files** in the Tree, as shown below.



Important Facts About Image File Installations

When performing an installation, image files are FTPed from the OmniVista server to the switch. To gain access to the switch, the FTP user name and password must to known to OmniVista. (You can specify FTP user names and passwords via the Edit Discovery Manager Entry window.) If you did not define FTP login names and passwords via the Edit Discovery Manager Entry window, and you attempt to install image files, you will be queried for the FTP login name and password of each individual switch in which the files are being installed. This is described above. If the FTP login name and password are not supplied to OmniVista, the FTP process will return errors and the files will not be installed in the device. The process of installing the files in other switches will continue.

Image files are installed via FTP, and any errors that can occur when using FTP outside of OmniVista are also possible when using OmniVista.

Note: The TFTP Setting tab in the Preferences window enables you to specify TFTP (Trivial File Transport Protocol) parameters that apply to all FTP file transfers performed from OmniVista. To display the Preferences window, select **Preferences** on the File menu.

If an install operation fails in the middle -- which could occur if a switch goes down between the server and the target switch -- the installation will be only partially completed. The user should check the status messages to determine the files that were actually installed and take any necessary corrective action.

When the install has successfully completed, you are prompted to reboot both AOS and XOS switches. Remember that image files are installed into the working directory of AOS devices. After the installation completes, you should reboot AOS switches using the **Load From Working** command. You may also want to save the working directory to the certified directory. You can perform these tasks by connecting to the switch from OmniVista's Topology application. (To connect to a switch, merely select it in the Topology application's Tree. Refer to the Topology help for more information.) You can reboot XOS switches via Telnet, etc. Note that OmniStack devices (the OmniStack 6024, 6048, 6124, 6148, 6300-24, and 8008) will automatically reboot without user intervention when the installation is complete.

Users should not attempt to copy image files installed on one machine to another machine. All image files should be installed on the desired machines from OmniVista, using the Install Upgrade Software Wizard.

Note: SFTP will be used when a device is configured in OmniVista to use SSH. If a device is configured to use SSH in OmniVista, SSH must be enabled on the device itself.

Selecting AOS Devices for BMF Upgrades

The first page of the Install Upgrade Software Wizard, shown below, lists all known devices that qualify for installation of the selected BootROM, MiniBoot, and FPGA (BMF) files. Select the device or devices in which you want to install the files. To select a single device in the list, merely click on it. **Shift**-click to select multiple contiguous devices. **Ctrl**-click to select multiple non-contiguous devices. Click the **Next** button when you have made your selections.

Note: The information fields displayed for each device are identical to those displayed in the list of All Discovered Devices. For information on these fields, refer to the Topology help.

| 🧖 Install Upgrade Software | | | | | | | X |
|--|---------------|-----------------|------------|--------|---------------|-------------------------|-------|
| | Devices | | | | | 10/10 🦁 📾 🛃 🖽 | |
| | Name | Address | DNS Name | Туре | Version | Backup Date | Bac |
| | 🙀 vxTarget | 10.255.11.111 | | 089700 | 6.1.1.634.R01 | Jan 19, 2006 6:03:02 PM | 6.1.1 |
| | 🗑 no-name | 10.255.11.121 | | 089700 | 6.1.1.633.R01 | | |
| | WV_FUUI1_126 | 10.255.11.126 | | OS9700 | 6.1.1.633.R01 | | |
| | WV_FUJI2_129 | 10.255.11.129 | | 089800 | 6.1.1.633.R01 | | |
| | 💓 fuji-161 | 10.255.11.161 | | 089700 | 6.1.1.631.R01 | | |
| | 😥 vxTarget | 10.255.11.219 | | 0S9700 | 6.1.1.631.R01 | | |
| | 🖬 no-name | 10.255.13.31 | | OS9700 | 6.1.1.633.R01 | | |
| | NetCore1Fuji1 | 10.255.13.93 | | 089700 | 6.1.1.631.R01 | | |
| | wTarget | 10.255.211.70 | | 059700 | 6.1.1.631.R01 | | |
| | wTarget | 10.255.211.71 | | 089700 | 6.1.1.632.R01 | Jan 4, 2006 8:13:35 PM | 6.1.1 |
| This wizard will walk you through the process of | | | | | | | |
| Installing a new images for the selected switches. Click the Help button for | 4 | | | | | | • |
| information on Installing new images options. | < Back | Ne <u>x</u> t > | Install So | tware | Cancel | Close Help | |

Install Upgrade Software Wizard (Page One) Page One lists all devices that qualify for installation of the selected files.

Click the Next button when you have made your selections.

Installing the BMF Files

The second page of the Install Upgrade Software Wizard, shown below, enables you to install the BootROM, MiniBoot, and FPGA (BMF) files and monitor the installation process for AOS switches with 5.1.5.R03 and later image files. Installation of BMF files takes place immediately when initiated; installation of BMF files cannot be scheduled for a later time or date. Note that BMF files will be loaded into the /**flash** directory during installation but are deleted after a successful installation.

Warning: Do not attempt to install BMF files on AOS switches unless they have already been upgraded to 5.1.5.R03 or later image files.

Install Upgrade Software Wizard (Page Two)

Page Two enables you to perform the installation and monitor its progress.

| 🖉 Install Upgrade Software | | | | | × |
|-----------------------------|--------------------|---------------|---------------------------|--------------------------|------------|
| | Software Install F | arameter | | | |
| | Files To Install | | | 22 😚 🕾 🗛 | |
| | File Name | Version | Description | Date | File Size |
| | Jípga upora | 6.1.1.633 R01 | fpga upgrade kit firmware | Dec 15, 2005 12:00:00 AM | 1 110 0126 |
| | miniboot.ub | 6.1.1.633 R01 | miniboot firmware | Dec 15, 2005 12:00:00 AM | |
| | | | | | |
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| | • | | 1 | | • |
| | -Installation Onti | 005 | | | |
| | motonación oper | 0115 | | | |
| | | 🖲 Upgr | ade BMF files 🛛 U-boot Up | ograde on All NIs | |
| | | | | | |
| | | 🔾 Upgr | ade Image Files | | |
| | | | | | |
| | Message Area | | | | |
| | | | | | - |
| This wizard will walk you | | | | | |
| Installing a new images for | | | | | |
| the selected switches Click | | | | | |
| the Hein button for | | | | | |
| information on Installing | | | | | , |
| new images options. | < Bac | k Next > | Install Software C | lose Cancel Help | |
| | | | | | |

Before You Begin

Before you attempt to upgrade BootROM, MiniBoot, and FPGA (BMF) files the follow prerequisites must be met:

- All switches must be running Release 5.1.5.R03 (or later) image files.
- All CMMs should have at least 4.2 MB of free space in /flash memory.
- A shunt connecting pins 1 and 2 on jumper block J64 (OS9000), J21 (OS8800), J345 (OS7800), or J31 (OS7700) or must installed on all CMMs. (This is the factory default configuration.)

Installation Order

To ensure successful BootROM, MiniBoot, and FPGA (BMF) upgrades and to reduce possible network down time, BMF upgrades should be performed in the following order:

1. Upgrade the applicable BootROM/MinBoot files (**bootrom.bin/miniboot.default** or **u-boot.bin/minboot.uboot**).

Note: If you are upgrading the **bootrom.bin file**, wait a sufficient time to ensure that the BMF upgrade was successful. (Alcatel recommends two weeks.)

2. After successfully upgrading the BootRom/MiniBoot files, upgrade the FPGA (click here for more information.)

Note: You must upgrade the BootROM/MinBoot files **before** upgrading the FPGA. Also note that you cannot upgrade **only** the U-Boot. You must update the U-Boot and MiniBoot at the same time.

Perform the steps described in How to Install BMF Files below.

How to Install BMF Files

Click the **Install Software** button at the bottom of the Wizard. If the device FTP login names and passwords for the devices were previously defined to OmniVista via the Edit Discovery Manager Entry window, the confirmation query shown below displays.

| Warning | × |
|---------|---|
| ? | Do you want to continue and install configuration of selected devices?? |
| | Yes No |

Click **Yes** and the installation process begins.

If FTP User Names/Passwords are Undefined

If the FTP user names and passwords for the devices were not previously defined to OmniVista via the Edit Discovery Manager Entry window, the FTP User Name Password window displays. An example is shown below. This window queries you to supply the FTP user names and passwords required for the backup.

| Please speci | fy all the m | issing FT | P login nar | ne(s)/passwor | d(s) | 8 H H |
|--------------|--------------|-----------|-------------|---------------|------|-------------------|
| Name | Ad | Address | | FTP Username | | P Password |
| vxTarget | 10.255.11.61 | | | | | and see a post of |
| | | OF | C.04 | Canaal | | |

To supply the FTP user name and password for a device, select the device in the FTP User Name Password window and click the **Edit** button. The Specify FTP Login window displays, shown below. Enter the FTP user name and password for the selected device in the appropriate fields. If the user name and password you enter also apply to the other devices, click the **Same for all Unspecified** checkbox. Then click the **OK** button.

| | | Specify FTP Login | × |
|---------------|---------------------|-------------------|--------------|
| Please specif | arme P ly all th | FTP Username: | |
| Name | | FTP Password: | FTP Password |
| vx(Target | 10.2 | Same for All Unsp | pecified |
| 2 | | ОК Са | ancel |

If necessary, continue to enter FTP user names and passwords until they have been specified for all devices listed. When all user names and passwords have been specified, the confirmation query shown below displays

| Warning | X |
|---------|---|
| ? | Do you want to continue and install configuration of selected devices?? |
| | Yes No |

Click Yes to begin the installation process.

When the Installation Completes

When the install has successfully completed, you are prompted to reload the AOS switches. After the installation completes, you must reload the AOS switches by selecting the **Reboot Entire Switch** option using the **Load From Certified** or **Reboot From Certified** command. Either command will bring up the Load From Certified window, which is shown below. You can perform this task by connecting to the switch from OmniVista's Topology application. (To connect to a switch, merely select it in the Topology application's Tree. Refer to the Topology help for more information.)

| Load from Certified | | 2 |
|-------------------------------|----------------|-----------|
| Reboot Entire Switch? | | |
| Reboot now | | |
| Reboot in | 1 | Minutes |
| Reboot at | Jan 23, 2006 5 | :44:03 PM |

Note: When you select the **Reboot Entire Switch** option the operation does not necessarily take place immediately since OmniVista needs to propagate the command to all switches you have upgraded.

Monitoring the Installation Process

If you leave the Install Upgrade Software Wizard open, you can view status messages that document the installation process as it occurs. An example is shown below. Note that the install operation will continue even if the Wizard is closed.

| 🖉 Install Upgrade Software | | | | | × | |
|--|--|---|---------------------------|--------------|------------------|--|
| | Software Install Param | eter | | | | |
| | Files To Install | | | 4./4 | 🤋 🕾 🗒 🆽 | |
| | File Name | Version | Description | Date | File Size(bytes) | |
| | 🗅 bootrom.bin | 5.1.6.87.R02 | bootrom firmware | Aug 11, 2004 | 422032 | |
| | Ffpga.upgrade_kit | 5.1.6.87.R02 | fpga upgrade kit firmware | Apr 27, 2005 | 1520343 | |
| | iminiboot.backup | 5.1.6.87.R02 | backup miniboot firmware | Aug 11, 2004 | 581067 | |
| | 🗅 miniboot.default | 5.1.6.87.R02 | default miniboot firmware | Aug 11, 2004 | 581067 | |
| | Installation Options | | | | | |
| | | | Upgrade BMF files | | | |
| | | | O Upgrade Image Files | | | |
| This wizard will walk you through the process of Installing a new images for the selected switches. Click | Message Area [5:55:49 PM] > Der CMM module(s) four | Status messages document the install process. | | | | |
| the Help button for information on Installing new images options. | < Back | Ne <u>x</u> t > | Install Software Canc | el Close | Help | |

Status Messages in the Install Upgrade Software Wizard

Status messages documenting the installation process as it occurs also display in the Status Panel. An example is shown below.

Status Messages in the Status Panel

| A.T. | | | | 10000 | | |
|------------------------------|------------------|--------|--|-------|---------|----------|
| Date | Application | Туре | Message | | | |
| Mon Jan 23 17:55:49 PST 2006 | Resource Manager | Info | RM-Device IP = 10.255.211.150 Request CMM module Information | - | | |
| Mon Jan 23 17:55:49 PST 2006 | Resource Manager | Info | RM-Device IP = 10.255.211.150 request CMM module completed. 1 CMM mod | | | |
| Mon Jan 23 17:55:55 PST 2006 | Resource Manager | Info | RM-copying (C: Program Files Alcatel OmniVista 2500 data resourcemanager) | | | |
| Mon Jan 23 17:56:02 PST 2006 | Resource Manager | 🕲 Info | RM-copied (C:/Program Files'Alcatel OmniVista 2500'data'resourcemanager'in | | | |
| Mon Jan 23 17:56:02 PST 2006 | Resource Manager | Info | RM-Device IP = 10.255.211.150 Installing bootrom.bin file | | Status | messages |
| Mon Jan 23 17:56:17 PST 2006 | Resource Manager | Info | RM-Device IP = 10.255.211.150 Completed installing bootrom.bin file | | Sidius | messages |
| Mon Jan 23 17:56:17 PST 2006 | Resource Manager | Info | RM-Device IP = 10.255.211.150 Removing bootrom.bin file | | docum | ent the |
| Mon Jan 23 17:56:17 PST 2006 | Resource Manager | Info | RM-Device IP = 10.255.211.150 Completed Removing bootrom.bin file | | install | process |
| Mon Jan 23 17:56:25 PST 2006 | Resource Manager | 🕲 Info | RM-copying (C:/Program Files/Alcatel OmniVista 2500/data/resourcemanager/i | | marun | process. |
| Mon Jan 23 17:56:34 PST 2006 | Resource Manager | Info | RM-copied (C: Program Files Alcatel OmniVista 2500 data'resourcemanager in | | | |
| Mon Jan 23 17:56:34 PST 2006 | Resource Manager | Info | RM-Device IP = 10.255.211.150 Installing miniboot.default file | | | |
| Mon Jan 23 17:56:51 PST 2006 | Resource Manager | Info | RM-Device IP = 10.255.211.150 Completed installing miniboot.def file | | | |
| Mon Jan 23 17:56:51 PST 2006 | Resource Manager | Info | RM-Device IP = 10.255.211.150 Removing miniboot.default file | | | |
| Mon Jan 23 17:56:51 PST 2006 | Resource Manager | Info | RM-Device IP = 10.255.211.150 Completed Removing miniboot.default file | - | 1 | |
| Status Notifications | | | | - | | |

Note: There is a 10 minute FTP timeout built into OmniVista. If a switch goes down or there is a network interruption during an FTP session, OmniVista will continue to attempt to FTP the file(s) to the switch(es) for 10 minutes. If the FTP session is unsuccessful, OmniVista will return an error message at the end of the 10 minute period.

Viewing Install Entries in the Audit Application

Whenever you install new BMF files, entries are made in the audit log **config.log**. You can view these entries by going to the Audit application and selecting **config.log** under **Current Log Files** in the Tree, as shown below.

| | Addit Application | on chines for image | The Instant | nons |
|---------------------------------------|-------------------------------------|---|--|---------------------------------------|
| | Selection e | t config.log under Cur i entries for image file in | r <mark>ent Log Files</mark> stallations. | to view Audit applica- |
| Eile Applications | View Help | | | |
| | Ð 🐼 🌢 🗶 🖻 | Current Log Files | | a |
| Network | 🗲 Audit | Audit Log "config.log" | | 261/261 🕱 💿 🗛 💷 🖽 |
| Configuration | Current Log Files Sapaccess log | Date Client | User Type | - Dencen - 10.200.211.100* Comp |
| Caruty | - back prestore.bt | Jan 23, 2006 5:56:17 PM 128.251.30 | .61 admin Information | Device IP = 10.255.211.150 Remo- |
| Security | - 🕒 confia.loa | Jan 23, 2006 5:56:17 PM 128.251.30 | .61 admin Information | Device IP = 10.255.211.150 Comp |
| Administrat | - S discovery.log | Jan 23, 2008 5:56:25 PM 128.251.30 | .61 admin Information | copying (C:\Program Files\Alcatel O |
| Control Panel | - 🖪 login.log | Jan 23, 2006 5:56:34 PM 128.251.30 | .61 admin Information | copied (C:\Program Files\Alcatel Or |
| | - 🖪 policy.log | Jan 23, 2006 5:56:34 PM 128.251.30 | .61 admin Information | Device IP = 10.255.211.150 Instal |
| 22. | - 🕒 polling.log | Jan 23, 2006 5:56:51 PM 128.251.30 | .61 admin Information | Device IP = 10.255.211.150 Comp |
| 101 | - 🛅 quarantine.log | Jan 23, 2006 5:56:51 PM 128.251.30 | .61 admin Information | Device IP = 10.255.211.150 Remd |
| | - 🕒 server.bt | Jan 23, 2006 5:56:51 PM 128.251.30 | 61 admin Information | Device IP = 10.255.211.150 Comp |
| Preferences | - 🖻 teinet.log | Jan 23, 2006 5:56:58 PM 128.251.30 | .61 admin Information | copying (C:\Program Files\Alcatel O |
| | - 🛅 trapconfig.log | Jan 23, 2006 5:57:32 PM 128.251.30 | .61 admin Information | copied (C:\Program Files\Alcatel Or = |
| 9.6 | - 🕒 vlan.log | Jan 23, 2006 5:57:32 PM 128.251.30 | 61 admin Information | Device IP = 10.255.211.150 Install - |
| 8 | 🗢 🏈 Archived Log Files | | | • |
| Audt | | Los Mocesani | | |
| | | Log message. | | |
| Schedule | | Device IP = 10.255.211.150 Installing | fpga.upgrade_kit file | |
| | | | Export Help | |
| · · · · · · · · · · · · · · · · · · · | | 1 | | - |
| A.T. | 1 | | | |
| Date | Applicati | on Type | Messa | ge ad installing minihoot dof file |
| Mon Jan 23 17:56:5 | 4 DST 2006 Resource Ma | nager info RM-Device IP = 10 | 255.211.150 Complet | a minihoat default file |
| Mon Jan 23 17:56-6 | 4 DST 2006 Resource Ma | pager D Info PM Device IP = 10 | 255.211.150 Removin | g miniboot.derauk nie |
| Mon Jon 23 17-30-3 | resource ma | rager av mo Pau-Device av = 10 | cease in rate- complet | eu rientoving miniboot.derault file |
| Status Notifica | tions | | | |

Audit Application Entries for Image File Installations

Important Facts About BMF File Installations

When performing an installation, BootROM, MiniBoot, and FPGA (BMF) files are FTPed from the OmniVista server to the switch. To gain access to the switch, the FTP user name and password must to known to OmniVista. (You can specify FTP user names and passwords via the Edit Discovery Manager Entry window.) If you did not define FTP login names and passwords via the Edit Discovery Manager Entry window, and you attempt to install BMF files, you will be queried for the FTP login name and password of each individual switch in which the files are being installed. This is described above. If the FTP login name and password are not supplied to OmniVista, the FTP process will return errors and the files will not be installed in the device. The process of installing the files in other switches will continue.

BMF files are installed via FTP, and any errors that can occur when using FTP outside of OmniVista are also possible when using OmniVista.

Note: The TFTP Setting tab in the Preferences window enables you to specify TFTP (Trivial File Transport Protocol) parameters that apply to all FTP file transfers performed from OmniVista. To display the Preferences window, select **Preferences** on the File menu.

If an install operation fails in the middle -- which could occur if a switch goes down between the server and the target switch -- the installation will be only partially completed. The user should check the status messages to determine the files that were actually installed and take any necessary corrective action.

When the install has successfully completed, you are prompted to reload the AOS switches. After the installation completes, you should reload AOS switches using the **Reboot Entire Switch** option in the **Load From Certified** or **Reboot From Certified** command. You can perform these tasks by connecting to the switch from OmniVista's Topology application. (To connect to a switch, merely select it in the Topology application's Tree. Refer to the Topology help for more information.)

Users should not attempt to copy BMF files installed on one machine to another machine. All BMF files should be installed on the desired machines from OmniVista, using the Install Upgrade Software Wizard.

Note: SFTP will be used when a device is configured in OmniVista to use SSH. If a device is configured to use SSH in OmniVista, SSH must be enabled on the device itself.

Inventory Tab

The Inventory tab, shown below, displays a list of the devices known to OmniVista that is possible to inventory and back up. (Note that the list does not include all the devices in the list of All Discovered Devices.) When the Inventory tab is displayed, icons in the Tool bar enable you to quickly access the Inventory window and the Backup Configuration wizard, as explained below.

Note: Inventory support using the Resource Manager application is currently available on OS6200 devices.

| OmniVista 2500 - A ile Applications Vi Network | Application: Resource M few ResourceManage | lanager Window ar Help I 🛃 🎗 | r:0 | | | | | 1 |
|--|---|------------------------------------|----------|------------|---------------|---------------------|-------|----|
| ile Applications Vi Network | jew <u>BesourceManage</u> | al Help | | | | | | 1× |
| Network | Galance Vpgr | 149 | | | | | | |
| Network B | Backup/Restore Upgr | | | | | | | 5 |
| | | rade Image 🛛 In | wentory | | | | | |
| Configuration De | evices | | | | 15 | 1/151 🕱 🕾 📇 🔣 | e e | - |
| | Name | Address | DNS Name | Туре | Version | Last Upgrade Status | | ٦ |
| | demo6850 | 10.1.1.43 | | OS6800-24 | 6.1.2.114.R01 | | | • |
| | Kite_59 | 10.255.11.59 | | OS6800-48 | 6.1.2.43.R03 | | | |
| | 🖉 vxTarget | 10.255.11.60 | | OS6800-48 | 6.1.2.31.R02 | | | 1 |
| esource manager | Kite2_NMS | 10.255.11.61 | | OS6850-24 | 6.1.2.49.R03 | | | |
| | vxTarget | 10.255.11.63 | | OS6850-P48 | 6.1.2.31.R03 | | | |
| - Se 🚺 | kite2_97_1 | 10.255.11.97 | | OS6850-P48 | 6.1.2.46.R03 | | | |
| 18 m | 🖉 falconCmm | 10.255.11.100 | | OS7700 | 5.1.6.393.R01 | | | |
| VLANS 6 | Kite_Fiber_U24 | 10.255.11.101 | | OS6800-U24 | 5.3.1.181.R02 | | | |
| | NMS_HAWK_102_1 | 10.255.11.102 | | OS6624 | 5.1.6.170.R02 | | | |
| 20 | nms-test-103 | 10.255.11.103 | | OmniS/R-9 | 4.4.5 | | | |
| - 100 | 🖌 vxTarget | 10.255.11.104 | | OS6800-48 | 5.3.1.223.R02 | | | |
| Global GoS | vxTarget | 10.255.11.109 | | OS6850-P48 | 6.1.2.24.R03 | | | |
| 6 | vxTarget | 10.255.11.111 | | OS9700 | 6.1.1.634.R01 | | Jan 1 | |
| | Kite | 10.255.11.112 | | OS6800-24 | 6.1.2.46.R03 | | | |
| | no-name-119x | 10.255.11.119 | | OmniS/R-5 | 4.5.2 | | | 1 |
| Security | no-name | 10.255.11.120 | | OmniS/R-3 | 4.5.2 | | | - |
| | | | | 000000 | | | - | |

Information Fields in the Devices List

As stated, the Inventory tab displays a list of the devices known to OmniVista that is possible to inventory and back up. Although this list does not include all the devices in the list of All Discovered Devices, the information fields displayed for each switch are identical to those displayed in the list of All Discovered Devices. The following section describes the information fields in the Devices table.

Information Fields in the List

Name The name of the device.

Address The address of the device.

DNS Name

The DNS name of the device.

Туре

The type of the device chassis.

Version

The version number of the device firmware. Version numbers are not displayed for certain non-XOS devices.

Last Upgrade Status

The status of the last firmware upgrade on the switch.

- "Successful" Successful BMF and Image upgrade performed.
- "Successful (BMF)" Successful BMF upgrade performed.
- "Successful (Image)" Successful Image upgrade is performed.
- "Failed (BMF, Image)" BMF and Image upgrade failed.
- "Failed (BMF)" BMF upgrade failed.
- "Failed (Image)" Image upgrade failed.

In all "Failed" cases, "Reload From Working" will be disabled on the switch until a successful upgrade is performed.

Backup Date

The date that the device's configuration and/or image files were last backed-up to the OmniVista server.

Backup Version

The firmware version of the configuration and/or image files that were last backed-up to the OmniVista server

Last Known Up At

The date and time when the last poll was initiated on the device.

Description

A description of the device, usually the vendor name and model.

Status

This field displays the operational status of the device. It displays **Up** if the device is up and responding to polls. (When a device is up, it displays green in both the List of All Discovered Devices and the tree.) It displays **Down** if the device is down and not responding to polls. (When a device is down, it displays red in both the List of All Discovered Devices and the tree.) This field displays **Warning** if the switch has sent at least one warning or critical trap and is thus in the warning state. (When a device is in the warning state, it displays orange in both the List of All Discovered Devices and the tree.)

Traps

This field indicates the status of trap configuration for the device. **On** means that traps are enabled. **Off** means that traps are disabled. **Not Configurable** means that traps for this device are not configurable from OmniVista. (Note that traps may have been configured for such devices outside of OmniVista.) **Unknown** means that OmniVista does not know the status of trap configuration on this switch. OmniVista will read the switch's trap configuration when traps are configured for the switch via the Configure Traps Wizard.

Seen By

This field lists the Security Groups that are allowed to view the device. (The Security Groups that are allowed to view a device can be defined when devices are autodiscovered, added manually, or edited.) The default Security Groups shipped with OmniVista are as follows:

- **Default** group. This group has read-only access to switches in the list of All Discovered Devices that are configured to grant access to this group.
- Writers group. This group has both read and write access to switches in the list of All Discovered Devices that are configured to grant access to this group. However, members of this group cannot run autodiscovery nor can they manually add, delete, or modify entries in the list of All Discovered Devices.
- Network Administrators group. This group has full administrative access rights to all switches on the network. Members of this group can run autodiscovery and can manually add, delete, and modify entries in the list of All Discovered Devices. Members of this group also have full read and right access to entries in the Audit application and the Control Panel application. Members of this group can do everything EXCEPT make changes to Security Groups.
- Administrators group. This group has all administrative access rights granted to the Network Administrators group AND full administrative rights to make changes to Security Groups.

Note that other Security Group names may display in this field if custom Security Groups were created. Refer to help for the Security application *Users and Groups* for further information on Security Groups.

Running From

For AOS devices, this field indicates whether the switch is running from the **certified** directory or from the **working** directory. This field is blank for all other devices. For AOS devices, the directory structure that stores the switch's image and configuration files in flash memory is divided into two parts:

- The certified directory contains files that have been certified by an authorized user as the default configuration files for the switch. When the switch reboots, it will automatically load its configuration files from the certified directory if the switch detects a difference between the certified directory and the working directory. (Note that you can specifically command a switch to reboot from either directory -- click here for information.)
- The working directory contains files that may or may not have been altered from those in the certified directory. The working directory is a holding place for new files to be tested before committing the files to the certified directory. You can save configuration changes to the working directory. You cannot save configuration changes directly to the certified directory.

Note that the files in the certified directory and in the working directory may be different from the running configuration of the switch, which is contained in RAM. The running configuration is the current operating parameters of the switch, which are originally loaded from the certified or working directory but may have been modified through CLI commands, WebView commands, or OmniVista. Modifications made to the running configuration must be saved to the working directory (or lost). The working directory can then be copied to the certified directory if and when desired. Click here for more information.

Changes

For AOS devices, this field indicates the state of changes made to the switch's configuration. This field is blank for all other devices. This field can display the following values:

- **Unsaved**. Changes have been made to the running configuration of the switch that have not been saved to the working directory.
- Uncertified. Changes have been saved to the working directory, but the working directory hasn't been copied to the certified directory. The working directory and the certified directory are thus different.

• Blank. When this field is blank for an AOS device, the implication is that OmniVista knows of no unsaved configuration changes and assumes that the working and certified directories in flash memory are identical.

OmniVista is now capable of tracking AOS configuration changes made through CLI commands or WebView, and so will reflect configuration changes made outside of OmniVista through these two interfaces in the Changes field. Information in the Changes field will be accurate as long as OmniVista has polled the switch since the last change was made (through any interface).

Note that it is possible a switch could be in a state where it is both Unsaved and Uncertified. In this situation **Unsaved** displays in the Changes field. Whenever an AOS device is in the Unsaved or Uncertified state, a blue exclamation mark displays on its icon ().

Discovered

This field displays the date and time when OmniVista successfully pings or polls the switch for the first time. This value remains unchanged until the switch entry is deleted. This field will remain blank if OmniVista does not ping or poll the switch at all.

Creating an Inventory Report

A Switch Inventory Report includes system information, detailed module information, chassis data, and health information for an individual switch. You can request an Inventory Report for a single switch or for multiple switches simultaneously. To Create an Inventory Report, follow the steps below.

Note: Refer to the Inventory help to view a sample Inventory Report and information on the fields in Inventory Reports.

1. With the Inventory tab displayed, select the switches for which you want to generate an Inventory Report. To select a single switch, merely click on it. **Shift**-click to select multiple contiguous switches. **Ctrl**-click to select multiple noncontiguous switches.

2. Click the Inventory icon **1**, or select **Inventory** on the Resource Manager Menu, or press **Ctrl I**. The Inventory window displays. The switches that you selected in step 1 are listed at the top of the window.

3. Click "Report Contents" checkboxes (shown below) to specify the types of information that you want included in the Inventory Report.

4. Click Create Report to create the report.

| | Inventory | × | |
|---|--|---------------|----------------------------------|
| The switches you selected | Inventory for vxTarget (10.255.11.61) vxTarget (10.255.11.109) WV_FUJI1_126 (10.255.11.126) | | |
| Click to include the respective information in the report. | Report Contents | Create Report | - Click to create the report. |
| | Detailed Module Information Chassis Information Health Information | Cancel | |
| | | Help | |

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Inventory Window

Initiating a Backup from the Inventory Tab

1. With the Inventory tab displayed, select the switches that you want to back up. To select a single switch, merely click on it. **Shift**-click to select multiple contiguous switches. **Ctrl**-click to select multiple noncontiguous switches.

2. Click the Backup Device icon in , or select **Backup** on the Resource Manager Menu, or press **Ctrl B**. The Backup Configuration wizard displays. The wizard opens at Page Two. (Page One of the Wizard enables you to select the switches to backup, but in this case you have already selected the switches.) Page Two of the Backup Configuration wizard enables you to perform the backup and monitor its progress. Click here for more information on Page Two of the Backup Configuration wizard.