

HP ProLiant Essentials Rapid Deployment Pack—Windows Edition Installation Guide



Part Number: 352869-009
Ninth Edition: January 2007
Product version: 3.50



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1 Licensing

A license enables a server to be deployed and managed by the Altiris Deployment Server. One license is required for each server being managed. After a license is applied to a specific server, the license cannot be removed or transferred to another server.

A license file contains licenses for a predetermined number of servers. License files are not Rapid Deployment Pack version specific.



NOTE: The term “server” refers to a physical server or a virtual machine. One license is required for each physical server or virtual machine.

Licensing options

The Rapid Deployment Pack offers five license purchasing options:

- One-node license—This license enables you to deploy and manage one server through the Deployment Server.
- Ten-node license—This license enables you to deploy and manage 10 servers through the Deployment Server.
- Flexible Quantity license—These kits enable you to obtain an exact quantity of licenses in the purchase of a single software option kit.
- Activation Key Agreement—This option enables you to order keys in the quantity desired for a specific time and purchase a license for each server deployed over time.
- HP BladeSystem enclosure group—A bundle of 8 or 20 licenses is available with an HP BladeSystem enclosure.

For more information about Flexible Quantity license and Activation Key Agreement options, see ProLiant Essentials Licensing at <http://www.hp.com/servers/rdp>.

Obtaining licenses

The following sections explain how to obtain evaluation or purchased licenses for your servers.

Evaluation licenses

Two types of evaluation licenses are available for use:

- A 10-node, 7-day evaluation license is built into the Deployment Server. No license file is required. The evaluation license can be applied during the Deployment Server installation.
- To obtain and use a 10-node, 30-day evaluation license:
 - a. Access <http://www.hp.com/servers/rdp/eval>.
 - b. Follow the online instructions to complete the registration process. An evaluation license file is then e-mailed to you.

Purchased licenses

Use your unique product registration number to obtain a license file. A 16-character alpha or 20-character alphanumeric registration number is located on a label on the outside back panel of a purchased software packaging box. The registration number is in the form:

xxxx-xxxx-xxxx-xxxx or xxxxx-xxxxx-xxxxx-xxxxx



IMPORTANT: Keep your product registration number for future reference.

1. Access <http://www.hp.com/servers/rdp/register>.
2. Follow the online instructions to complete the registration process. A license file will be e-mailed to you.

Additional purchased licenses can be transferred or combined with already registered licenses. See the instructions at <http://www.hp.com/servers/rdp/register>.

Applying a license file

The following sections explain how to apply evaluation or purchased licenses to your servers and how to add or replace existing licenses.

Applying license files during a first-time installation

A 10-node, 7-day evaluation license is built into the Deployment Server. To apply this license, select **Free 7 day license** during a first-time installation on the Deployment Share Information screen.

To apply a purchased or evaluation license file, enter the path to the license file in the License File field during the installation on the Deployment Share Information screen.

To view the number of licensed nodes from the console, select **Help>About**.

Applying license files during an upgrade installation

To continue using existing licenses after performing an upgrade, select **Upgrade using existing license** during the installation on the Deployment Share Information screen.

To view the number of licensed nodes from the console, select **Help>About**.

Adding licenses to an existing installation

To apply additional purchased licenses to an existing installation, add the new license file to your Deployment Server:

1. Shut down all connections to the Deployment Server Console and Deployment Server Web Console.
2. Run the Altiris Product Licensing Utility by clicking **Start>Programs>Altiris>Deployment Solution>Product Licensing Utility**.
3. Enter the path to the new license file in the Activation Key File Information field, and then click **Next**.
4. Follow the online instructions to apply your additional licenses.

To view the number of additional licensed nodes from the console, select **Help>About**.

Replacing licenses in an existing installation

If you have previously purchased, returned, or transferred licenses and have obtained a new license file to replace your existing license file:

1. Shut down all connections to the Deployment Server Console and Deployment Server Web Console.
2. Run the Altiris Product Licensing Utility by selecting **Start>Programs>Altiris>Deployment Solution>Product Licensing Utility**.
3. Enter the path to the new license file in the Activation Key File Information field, and then click **Next**.
4. Follow the online instructions to apply your licenses, and select **Replace all existing license Activation Keys with this new Activation Key** checkbox.

To view the number of licensed nodes from the console, select **Help>About**.

2 Prerequisites

The Rapid Deployment Pack installation consists of the following required components installed on a Microsoft® Windows®-based server.

- Microsoft .NET Framework 1.1 and 2.0
- Microsoft SQL Server 2005 Express



IMPORTANT: The above database component is installed only if you do not already have a local or remote Microsoft SQL database.

- Altiris Deployment Server, including any available service packs
- Altiris Deployment Server Hotfix (if available)
- ProLiant Integration Module
- Integrity Integration Module

The Altiris Deployment Server consists of subcomponents that can be installed on the same physical server or distributed across multiple servers. These subcomponents include the following:

- Deployment Server Services
- Deployment Server Console
- Deployment Server Web Console (optional)
- Preboot eXecution Environment (PXE) service
- Client Access Point (file share)

For information about the specific component versions provided with the Rapid Deployment Pack, see the *HP ProLiant Essentials Rapid Deployment Pack Release Notes*, which are accessible from the Rapid Deployment Pack autorun utility.

Installation requirements

This section describes the requirements to successfully install each Rapid Deployment Pack component.



IMPORTANT: The Rapid Deployment Pack cannot be installed through a Terminal Services, remote shell, or network share connection.

Network infrastructure requirements

The Rapid Deployment Pack is designed to perform optimally with Dynamic Host Configuration Protocol (DHCP) and PXE in the network environment. If PXE is used to perform remote deployment of servers, DHCP must be installed and accessible on the network before the Altiris Deployment Server installation to ensure correct installation of PXE services.

System requirements

The following system requirements for the Deployment Server and target systems must be met before installing the Rapid Deployment Pack.

Deployment Server

The Deployment Server hardware and network configuration must meet the following requirements:

- An Intel® Pentium® III or higher processor or AMD processor
- At least 256 MB RAM
- A network connection configured with a static IP address



IMPORTANT: It is difficult to change the IP address configuration for the Deployment Server after installation. Set the appropriate IP address before installing the Rapid Deployment Pack.

- The correct date and time
- A DVD drive or method to mount an ISO image

The Deployment Server configuration must meet the following requirements:

- A supported Windows operating system installed:
 - Microsoft Windows 2000 Server
 - Microsoft Windows 2000 Advanced Server
 - Microsoft Windows Server™ 2003 Service Pack 1, Standard Edition
 - Microsoft Windows Server 2003 Service Pack 1, Enterprise Edition



NOTE: Altiris does not support a deployment server running Microsoft Windows Server 2003 x64 or IA64 Editions.

- Available disk space:
 - 1.5 GB for the Rapid Deployment Pack base installation
 - At least 500 MB for each Windows operating system to deploy
 - At least 600 MB for each VMware operating system to deploy
 - At least 4 GB for each Linux distribution to deploy
 - Additional space to store any captured disk images or application installation files
- Database management software
 - Microsoft SQL Server 2000 3a or later
 - Microsoft SQL Server 2005
- For Linux and VMware ESX Server deployments, an FTP server installed, such as the Microsoft Internet Information Services (IIS) FTP service. For information, see “Appendix C Installing an FTP server.”
- ProLiant Support Pack for Windows installed to provide the latest supported network drivers for the Deployment Server
- IIS with ASP.NET running if you want to install and use the Deployment Server Web Console

Be sure to have the following items available:

- A license file for purchased licenses or 30-day evaluation licenses (For information about licensing, see the “Licensing” section in this guide.)
- Operating system files for Windows, VMware ESX Server, Linux, or all three with versions as described in the *HP ProLiant Essentials Rapid Deployment Pack—Windows Edition Support Matrix*
- Windows product keys

For additional information about requirements for the Deployment Server, see the *Altiris Deployment Solution 6.8 Deployment and Migration Guide* at <http://www.hp.com/servers/rdp>.

Target systems

The Rapid Deployment Pack offers support for HP BladeSystems, including ProLiant BL servers, Integrity BL servers, and Blade PCs, as well as select ProLiant ML/DL servers, Integrity rx servers and select virtual machines. For a list of supported systems, see the *HP ProLiant Essentials Rapid Deployment Pack—Windows Edition Support Matrix* for your Rapid Deployment Pack version.

For details about target system requirements, such as minimum ROM and firmware versions, see the Rapid Deployment Pack Knowledge Base at <http://www.hp.com/servers/rdp/kb>. Search for related articles based on the platform model, name, or operating system. See also the Knowledge Base article, “Minimum Firmware Requirements for Target Servers,” Article #200.

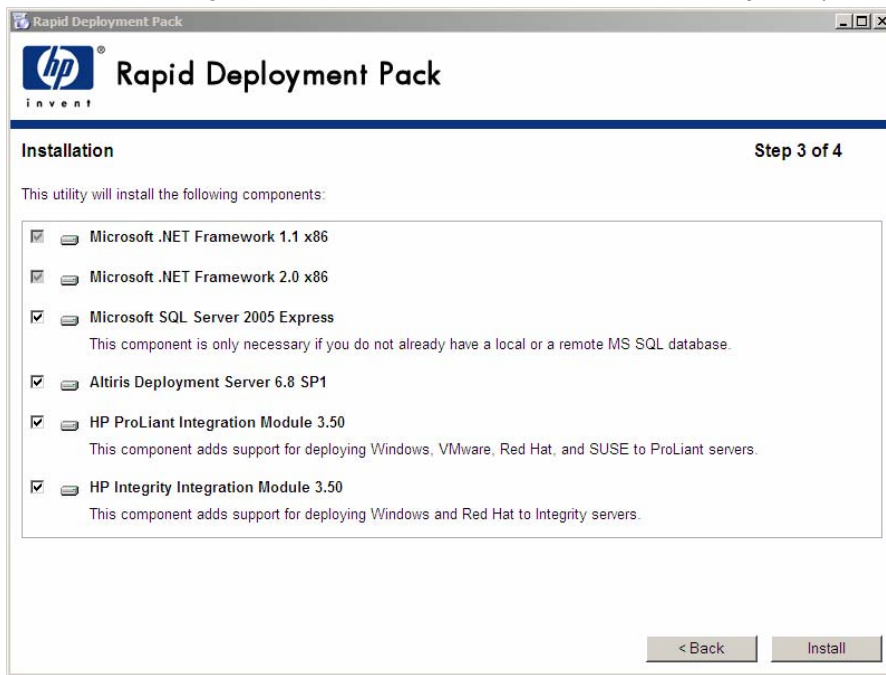
3 Installing

Complete the following procedures to install the Rapid Deployment Pack. To upgrade the Rapid Deployment Pack software currently installed on the Deployment Server, see the "Upgrading" section in this guide.



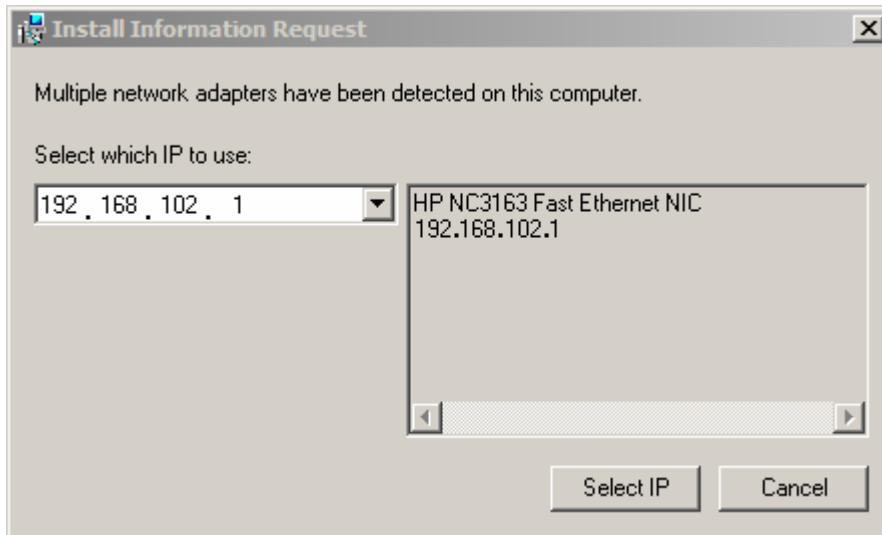
IMPORTANT: The Rapid Deployment Pack cannot be installed through a Terminal Services, remote shell, or network share connection.

1. Access the Rapid Deployment Pack autorun by performing one of the following tasks, and executing autorun.exe:
 - Insert the physical DVD into the DVD drive.
 - Extract the ISO image to the intended Deployment Server.
 - Mount the ISO image.
2. If you agree to the terms of the ProLiant Essentials End User License Agreement (EULA), click **Agree** to continue.
3. Read the overview information, and click **Next**.
4. Review the preinstallation step, and click **Next**.
5. Verify that the appropriate components are selected for installation. If Microsoft .NET Framework and Microsoft SQL Server are not installed on the server, these components are automatically selected. If you plan to use an existing database, clear the **Microsoft SQL Server 2005 Express** option.

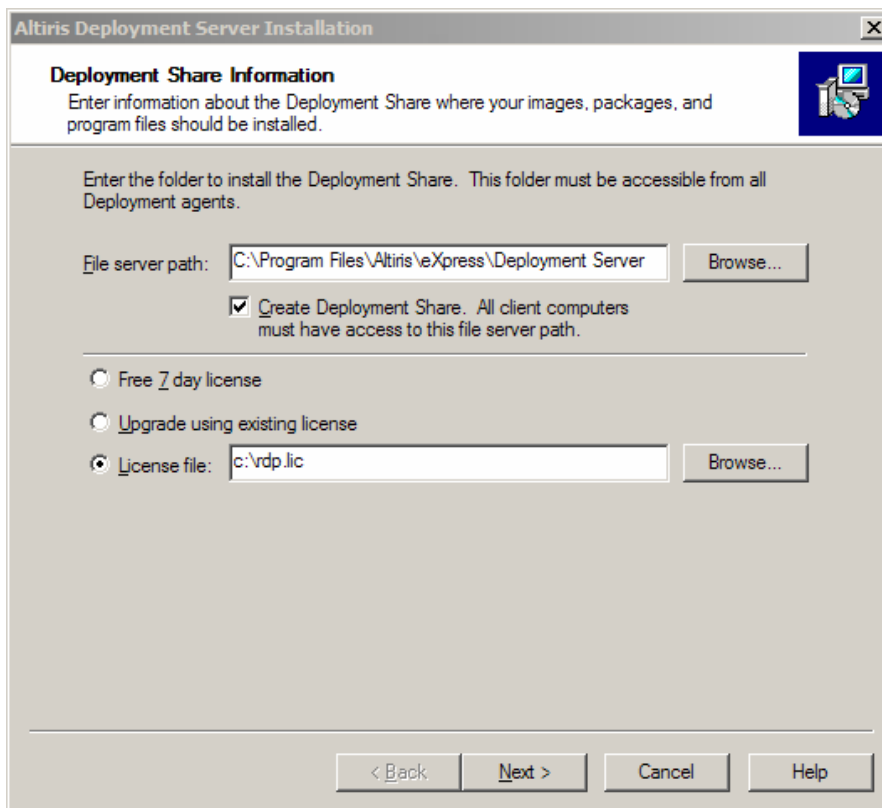


6. Click **Install**.
7. Wait while Microsoft .NET Framework and Microsoft SQL Server are installed.
8. If the Altiris Deployment Server was selected for installation, read the Altiris EULA, and click **Yes** to agree to the terms of the license agreement. If the Altiris Deployment Server was not selected for installation, proceed to step 26.

9. If the server has multiple network adapters, select the appropriate interface for the Deployment Server, and click **Select IP**.



10. Select the appropriate licensing option. For more information about licensing, see the “Licensing” section in this guide.
- For a first-time installation, select **Free 7 day license**, or select **License file**, and enter the license file path and name.



CAUTION: To avoid losing existing licenses, you must select **Upgrade using existing license** during an upgrade installation instead of selecting **License file** and reapplying your original license file.

- For an upgrade installation, verify that **Upgrade using existing license** is selected.

Altiris Deployment Server Installation

Deployment Share Information
Enter information about the Deployment Share where your images, packages, and program files should be installed.

Enter the folder to install the Deployment Share. This folder must be accessible from all Deployment agents.

File server path:

Create Deployment Share. All client computers must have access to this file server path.

Free 7 day license

Upgrade using existing license

License file:

< Back Next > Cancel Help

11. Click **Next**.

12. Enter the service credentials for the Deployment Server, and click **Next**.

Altiris Deployment Server Installation

Deployment Server Information
Enter information about the Deployment Server.

Where would you like to install the Deployment Server?

On this computer

On a remote computer

Remote computer name:

IP address:

Port:

Deployment Server install path:

The following Administrator account must exist on the Deployment Share and the Deployment Server. If using Active Directory, enter 'domain\user name'.

Service user name: Service password:

< Back Next > Cancel Help

13. Select the name of the server instance where you want to install the database, and click **Next**.

The screenshot shows a dialog box titled "Altiris Deployment Server Installation" with a close button (X) in the top right corner. The main heading is "Deployment Database" and the instruction is "Enter information about the Deployment Database". Below this, there is a paragraph of text: "Select the Microsoft SQL Server Instance where you would like your Deployment Database to be installed. You can override the SQL port number if you select a Named Instance. You can also change the default database name." There are three input fields: a dropdown menu showing "RDP-DS", a text box for "SQL Port Number" containing "1433", and a text box for "Database Name" containing "eXpress". At the bottom, there is a paragraph of text: "If Microsoft SQL Server is not installed, cancel this installation and install the Microsoft SQL Server Desktop Engine (MSDE). Then restart this installation." and four buttons: "< Back", "Next >", "Cancel", and "Help".

14. If the database is located on a remote server, you might be prompted for authentication. Enter a user name and password with administrative rights.
15. Enter the appropriate database authentication method, and click **Next**.

The screenshot shows a dialog box titled "Altiris Deployment Server Installation" with a close button (X) in the top right corner. The main heading is "Gathering Information" and the instruction is "Specify which type of authentication your database will use." Below this, there are two radio button options: "Use Windows NT Authentication" (which is selected) and "Use SQL Server Authentication". Under "Use SQL Server Authentication", there is a text box for "Enter the username and password for the SQL Server". Below this, there is a paragraph of text: "Enter a username and password with Administrative rights for the SQL database. This is used to update or create the database." and another paragraph: "If your existing SQL Server installation is a Microsoft Database Engine (MSDE), the default username is 'sa' and the password is either blank or 'Altiris'." There are two text boxes: "Username:" and "Password:". At the bottom, there are four buttons: "< Back", "Next >", "Cancel", and "Help".

16. If upgrading, click **Yes** when prompted to retain the data in the existing database.

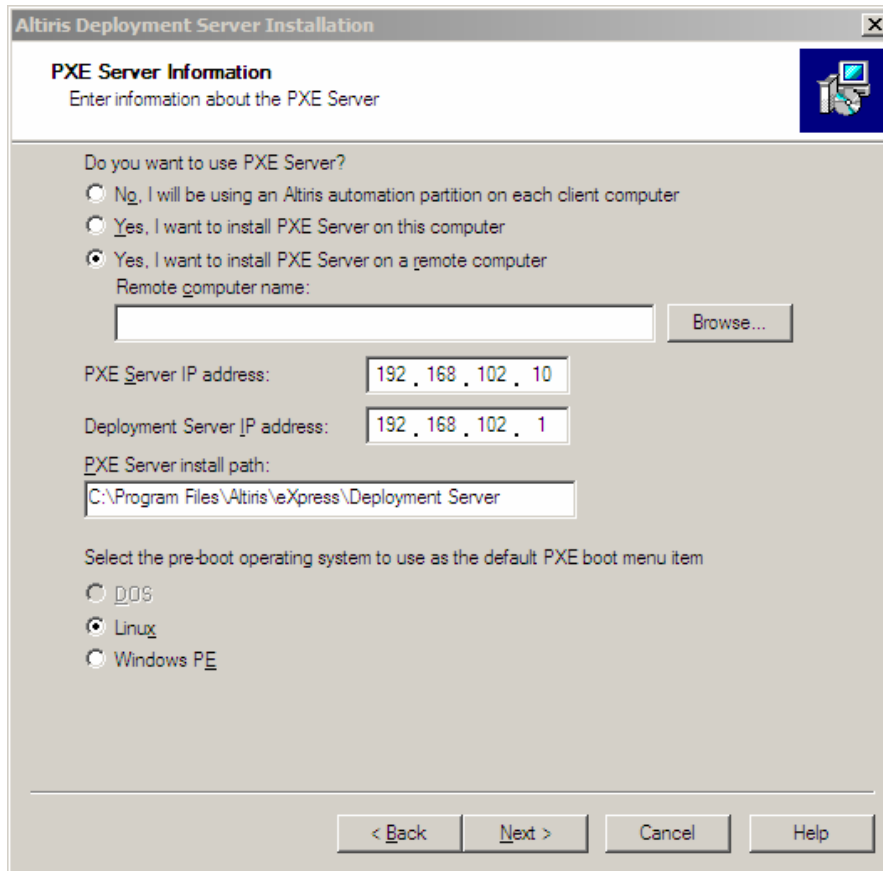
CAUTION: If you do not retain existing data, all deployment history, customized jobs, and servers listed in the Deployment Server Console are lost.

17. Click **Next** on the Pre-boot Operating Systems screen.

IMPORTANT: Linux and Windows PE are the only automation environments supported with the Rapid Deployment Pack 3.00 or later. The MS-DOS preboot environment is no longer used. For the Rapid Deployment Pack 3.50 and later, Windows PE x86, Windows PE x64, Linux PE x86, and Linux PE ia64 are the only preboot architectures supported.

The screenshot shows the 'Pre-boot Operating Systems' dialog box in the Altiris Deployment Server Installation wizard. The title bar reads 'Altiris Deployment Server Installation'. The main heading is 'Pre-boot Operating Systems' with a sub-heading 'Select the pre-boot operating systems for Boot Disk Creator.' Below this, there is a text box for entering the location of pre-boot operating system files, with instructions: 'Enter the location where the pre-boot operating system files are located. For FreeDOS and Linux operating systems enter the location of the Altiris FIRM file.' The dialog is organized into three sections: DOS, Linux, and WinPE. Each section has a list of operating system types with checkboxes and text input fields. The DOS section includes FreeDOS and MS-DOS. The Linux section includes x86, x64, and ia64. The WinPE section includes x86, x64, and ia64. The x86, x64, and ia64 options for Linux and WinPE are checked. The text input fields contain the path 'D:\ds\BDCgpl_6.8.xxxx.frm' for DOS, Linux, and WinPE x86/x64, and 'D:\' for WinPE ia64. At the bottom, there are four buttons: '< Back', 'Next >', 'Cancel', and 'Help'. A note at the bottom states: '* indicates that this Pre-boot OS is already installed. Additional pre-boot operating systems can be installed later from the Boot Disk Creator.'

18. Specify the location where PXE Server is to be installed, and click **Next**.

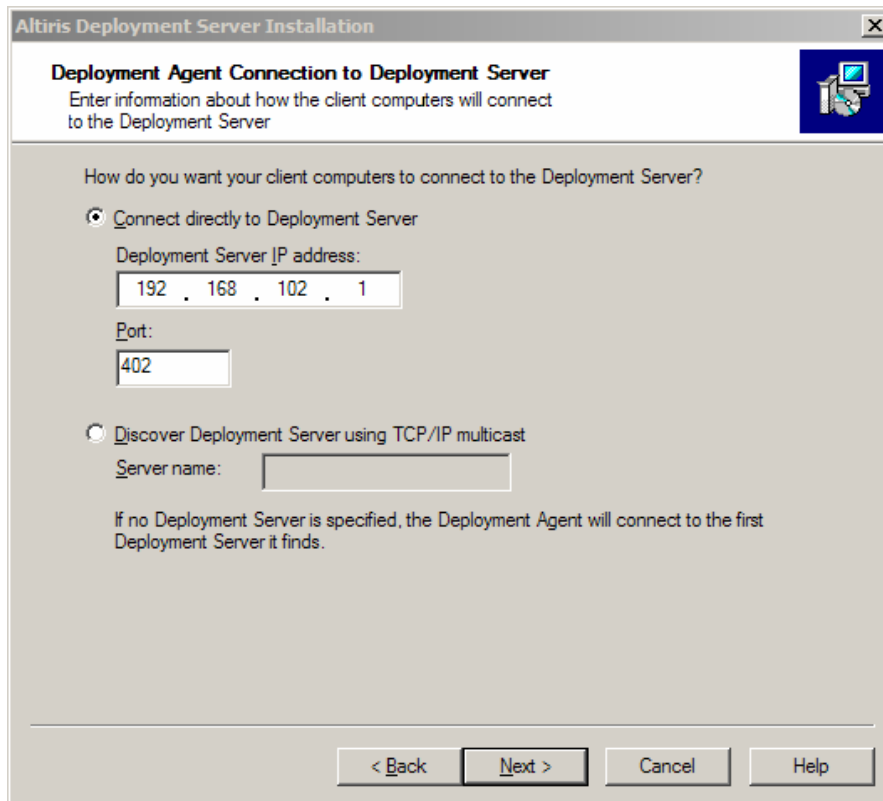


The dialog box is titled "Altiris Deployment Server Installation" and "PXE Server Information". It contains the following fields and options:

- Do you want to use PXE Server?
 - No, I will be using an Altiris automation partition on each client computer
 - Yes, I want to install PXE Server on this computer
 - Yes, I want to install PXE Server on a remote computer
- Remote computer name: [Text Field] [Browse...]
- PXE Server IP address: [192 . 168 . 102 . 10]
- Deployment Server IP address: [192 . 168 . 102 . 1]
- PXE Server install path: [C:\Program Files\Altiris\Express\Deployment Server]
- Select the pre-boot operating system to use as the default PXE boot menu item
 - DOS
 - Linux
 - Windows PE

Buttons at the bottom: < Back, Next >, Cancel, Help.

19. If DHCP is installed on a separate system, click **OK** when prompted that DHCP services are required.
20. Specify how clients connect to the Deployment Server, and click **Next**.



The dialog box is titled "Altiris Deployment Server Installation" and "Deployment Agent Connection to Deployment Server". It contains the following fields and options:

- How do you want your client computers to connect to the Deployment Server?
 - Connect directly to Deployment Server
 - Deployment Server IP address: [192 . 168 . 102 . 1]
 - Port: [402]
 - Discover Deployment Server using TCP/IP multicast
 - Server name: [Text Field]
- If no Deployment Server is specified, the Deployment Agent will connect to the first Deployment Server it finds.

Buttons at the bottom: < Back, Next >, Cancel, Help.

21. Specify the location where the Deployment Server Console is to be installed, and click **Next**.

The screenshot shows a Windows-style dialog box titled "Altiris Deployment Server Installation". The main heading is "Deployment Console Information" with the instruction "Enter information about the Deployment Console". Below this, the question "Where would you like to install the Deployment Console?" is followed by two radio button options: "On this computer" (which is selected) and "On a remote computer". Under the "On a remote computer" option, there is a text field for "Remote computer name:" and a "Browse..." button. At the bottom of the dialog, there are four buttons: "< Back", "Next >", "Cancel", and "Help".

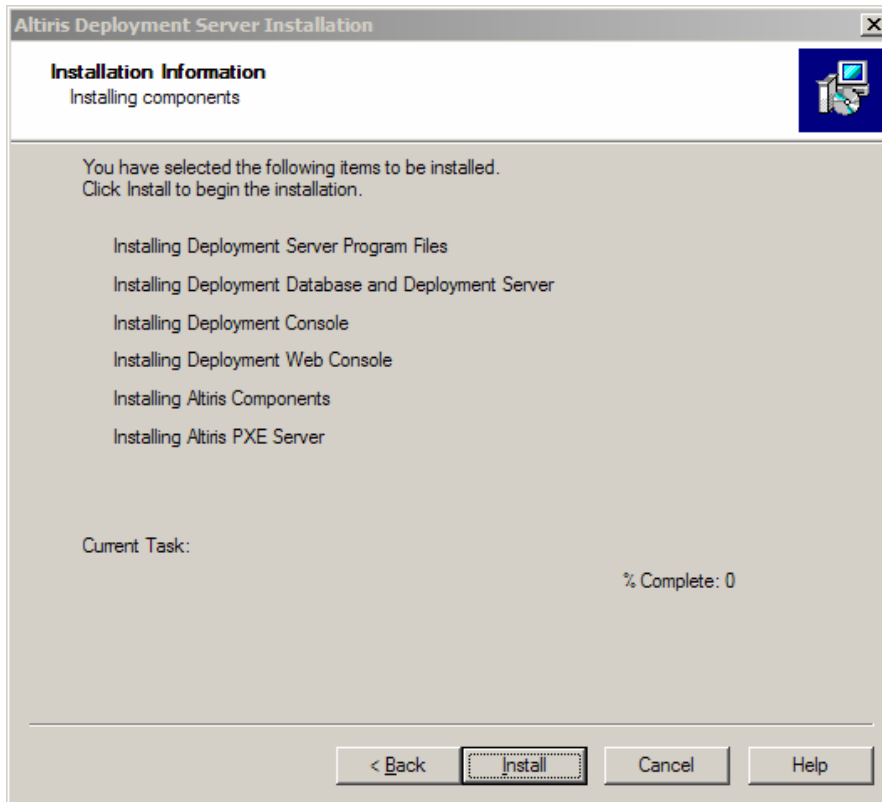
22. Specify if and where the Deployment Server Web Console is to be installed, and click **Next**.



IMPORTANT: Microsoft IIS with ASP.NET must be running on the system where the Deployment Server Web Console is installed.

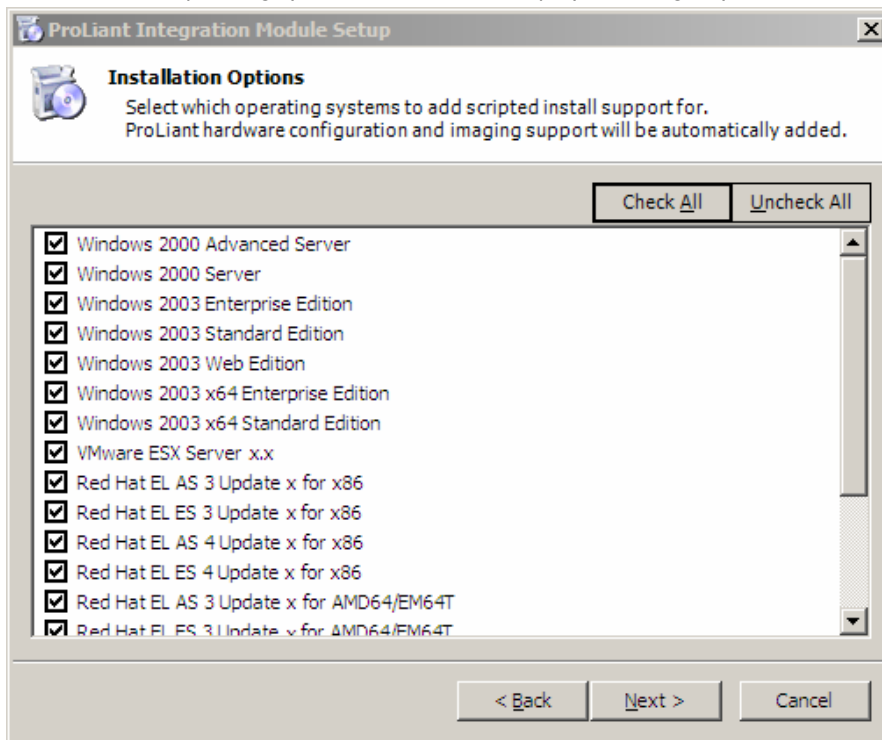
The screenshot shows a Windows-style dialog box titled "Altiris Deployment Server Installation". The main heading is "Deployment Web Console Information" with the instruction "Enter information about the Deployment Web Console. It must be on a computer that is running Microsoft IIS." Below this, the question "Where would you like to install the Deployment Web Console?" is followed by three radio button options: "Do not install", "On this computer" (which is selected), and "On a remote computer". Under the "On a remote computer" option, there is a text field for "Remote computer name:" and a "Browse..." button. Below these options, there are three text input fields: "Console port:" with the value "8081", "Deployment Web Console path:" with the value "C:\Program Files\Altiris\Express\Deployment Web Console", and "Service user name:" with the value "Administrator". To the right of the "Service user name:" field is a "Service password:" field with a masked password of seven asterisks. At the bottom of the dialog, there are four buttons: "< Back", "Next >", "Cancel", and "Help".

23. Click **Install** on the Installation Information screen to start the Deployment Server software installation.

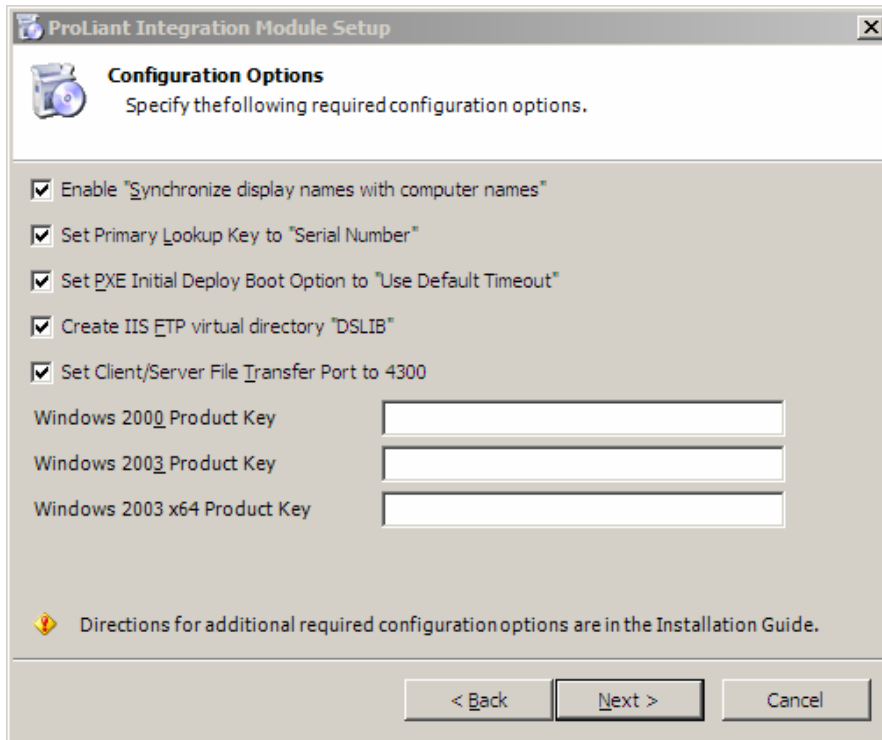


24. If upgrading, click **Yes** when prompted to replace the eXpress share.
25. Click **Finish** on the Installation Information Summary screen.
26. If ProLiant Integration Module software was selected for installation, click **Verify** on the Prerequisites screen to start the verification process. If ProLiant Integration Module software was not selected, proceed to step 37 for Integrity Integration Module software.
27. Click **Next** when the verification process is complete.

28. Select the operating systems that are to be deployed to target systems, and click **Next**.



29. Specify the appropriate configuration options. If you are not using IIS FTP service for Linux or VMware ESX Server installations, clear the **Create IIS FTP virtual directory "DSLIB"** option.
For additional information or to change these configuration options later, see "Appendix B Manually modifying configuration settings."
30. Click **Next**.



31. Click **Install** on the Installation and Configuration screen.
32. If upgrading, click **OK** if you are prompted to overwrite the existing jobs and save configuration backup files.

33. Based on your previous selection of operating systems to deploy to target systems, specify the root directory location for the indicated operating systems. The operating system files can be copied from CDs or DVDs, a network location, or a mounted ISO image. Click **Copy** to copy necessary files for scripted installations. If the operating system files have already been copied, you are not prompted for those files again.

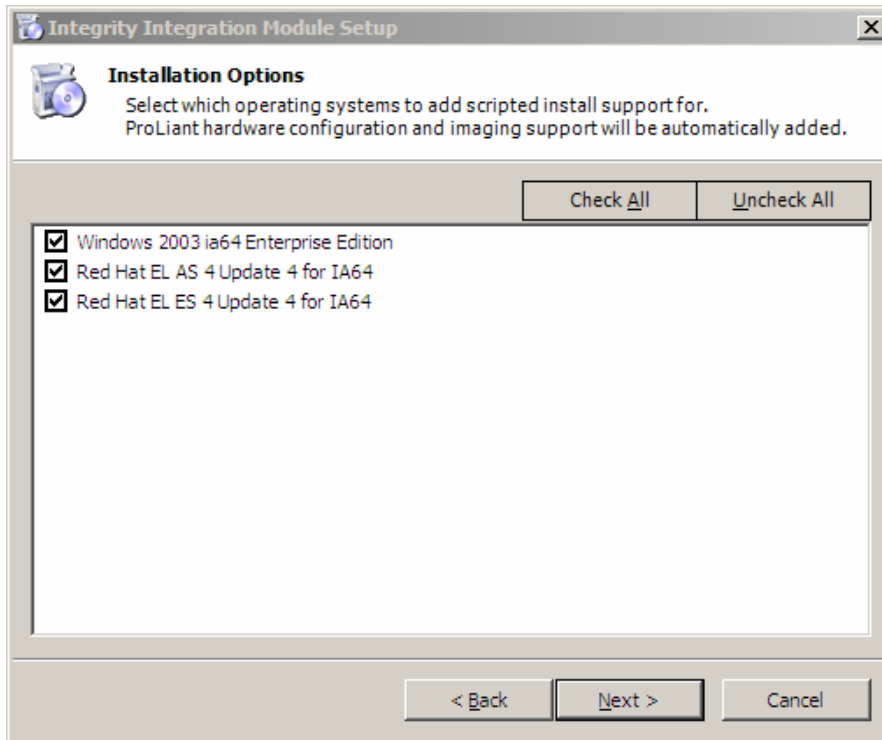


IMPORTANT: If you bypass copying any operating system files at this time by clicking **Skip**, see “Appendix A Manually installing operating system CDs or DVDs” to manually install these files later. Manually copying the Windows, Linux, or VMware operating system files produces the same results as copying the files during the Rapid Deployment Pack installation.

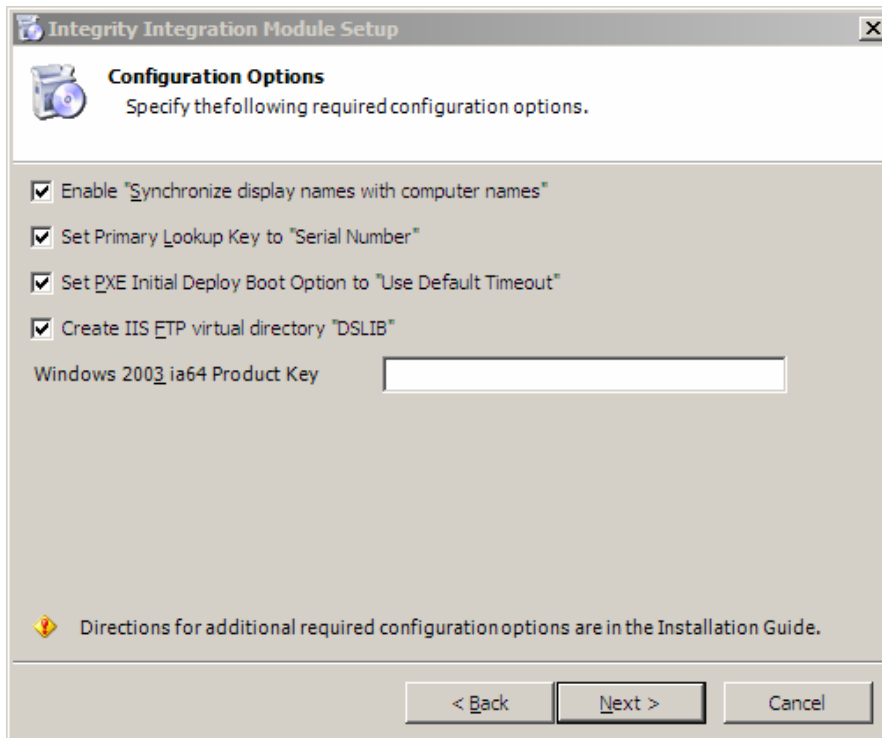
The screenshot shows a dialog box titled "ProLiant Integration Module Setup". Inside, there is a section for "Windows 2003 Enterprise Edition" with a CD icon and the instruction: "Locate the root directory of this distribution, either on a DVD/CD-ROM drive or on a network share." Below this is a "Source" field containing "d:\", a "Browse" button, and a checkbox labeled "The source directory contains all of the distribution files in the correct layout." There is also a "Destination" field containing "C:\Program Files\Altiris\Express\Deployment Server\lib\osdist\w52e" and a note: "To manually copy this distribution later, copy the entire distribution to the destination directory above." At the bottom are "Copy" and "Skip" buttons.

34. If the same media source was used to install the operating system files, you are prompted to reinsert the Rapid Deployment Pack media when the copy process is complete. Click **OK** when you have reinserted the media.
35. If you bypassed copying any operating system files in step 33, click **OK** when the warning message appears stating which distributions were not copied.
36. Click **Finish** on the Installation and Configuration screen.
37. If the Integrity Integration Module software was selected for installation, click **Verify** on the Prerequisites screen to start the verification process. If Integrity Integration Module software was not selected, proceed to step 48.
38. Click **Next** when the verification process is complete.

39. Select the operating systems that are to be deployed to target systems, and click **Next**.



40. Specify the appropriate configuration options. If you are not using IIS FTP service for Linux installations, clear the **Create IIS FTP virtual directory "DSLIB"** option. For additional information to change these configuration options later, see "Appendix B Manually modifying configuration settings" in this guide.



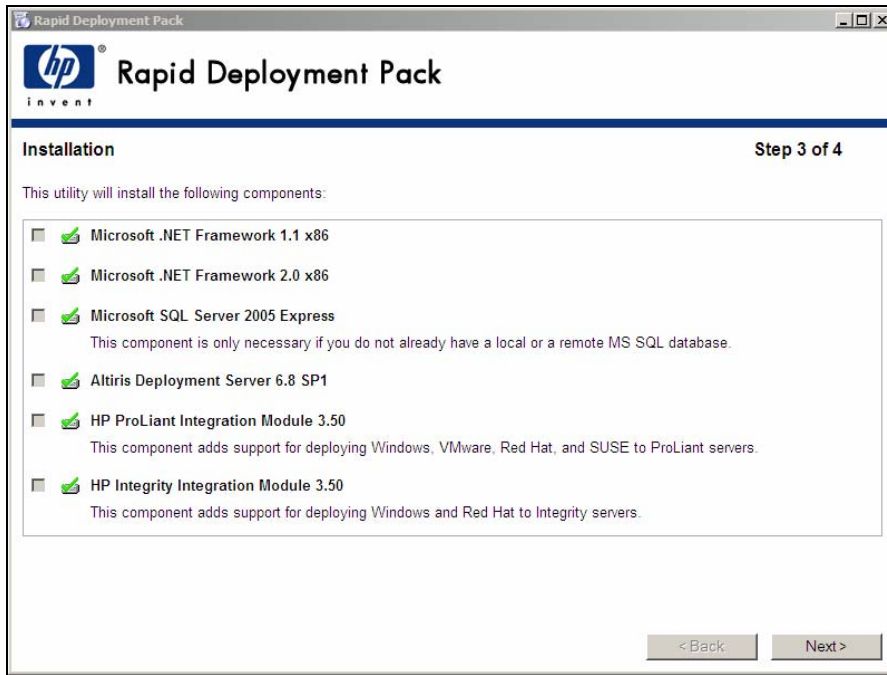
41. Click **Next**.
42. Click **Install** on the Installation and Configuration screen.
43. If upgrading, click **OK** if you are prompted to overwrite the existing jobs and save configuration backup files.
44. Based on your previous selection of operating systems to deploy to target systems, specify the root directory location for the indicated operating systems. The operating system files can be copied from CDs or DVDs, a network location, or a mounted ISO image. Click **Copy** to copy necessary files for scripted installations. If the operating system files have already been copied, you are not prompted for those files again.



IMPORTANT: If you bypass copying any operating system files at this time by clicking **Skip**, see “Appendix A Manually installing operating system CDs or DVDs” to manually install these files later. Manually copying the Windows and Red Hat Linux operating system files produces the same results as copying the files during the Rapid Deployment Pack installation.

45. If the same media source was used to install the operating system files, you are prompted to reinsert the Rapid Deployment Pack media when the copy process is complete. Click **OK** when you have reinserted the media.
46. If you bypassed copying any operating system files in step 44, click **OK** when the warning message appears stating which distributions were not copied.
47. Click **Finish** on the Installation and Configuration screen.

48. Click **Next** on the autorun utility.



49. Review the post-installation step, and click **Finish** to complete the Rapid Deployment Pack installation.
50. Select **Yes** when prompted to reboot the server.

The installation is complete. Before performing a server deployment, see the following resources:

- The “Post-installation steps” section in this guide
- The appropriate predeployment configuration steps in the *HP ProLiant Essentials Rapid Deployment Pack—Windows Edition User Guide*



IMPORTANT: During the Rapid Deployment Pack installation, the default Linux Managed and WinPE Managed PXE images are automatically regenerated if PXE is used. However, if you performed an upgrade installation, rebuild any custom PXE or boot images to ensure that these images contain the latest files and drivers.

4 Upgrading

Complete the following procedures to upgrade the Rapid Deployment Pack software currently installed on the Deployment Server.

Preinstallation steps



IMPORTANT: If you have modified any of the provided batch files, configuration files, or scripts, verify that you have renamed and made backup copies of this data before upgrading. The upgrade program might overwrite these files with new files.



IMPORTANT: The Rapid Deployment Pack upgrade must be completed using the Rapid Deployment Pack—Windows Edition autorun utility. Verify that the **Upgrade using existing license** option is selected during the Altiris Deployment Server upgrade.

Before upgrading:

- If you obtained your existing licenses before 20 November 2003, you should have received a new license file validating your licenses for an Altiris 6.0 or later software upgrade and providing 10-year Annual Upgrade Protection. Before upgrading to the Rapid Deployment Pack 1.50 or later, apply this new license file with the Altiris Product Licensing Utility, verifying that **Replace all existing license Activation Keys with this new Activation Key checkbox** is **not** selected. This new license file is to be used with your purchased licenses, not as a replacement. If you did not receive this license file, contact HP Support before upgrading. Upgrading before applying a new license file can cause your existing licenses to become invalid, resulting in a reduced license count (possibly down to zero).

For more information, see the Rapid Deployment Pack Knowledge Base at <http://www.hp.com/servers/rdp/kb> (Article 136).

- If you are using Deployment Server Console security, disable it before starting the upgrade, and then re-enable it after the upgrade is complete.
- Shut down all connections to the Deployment Server Console and Deployment Server Web Console.

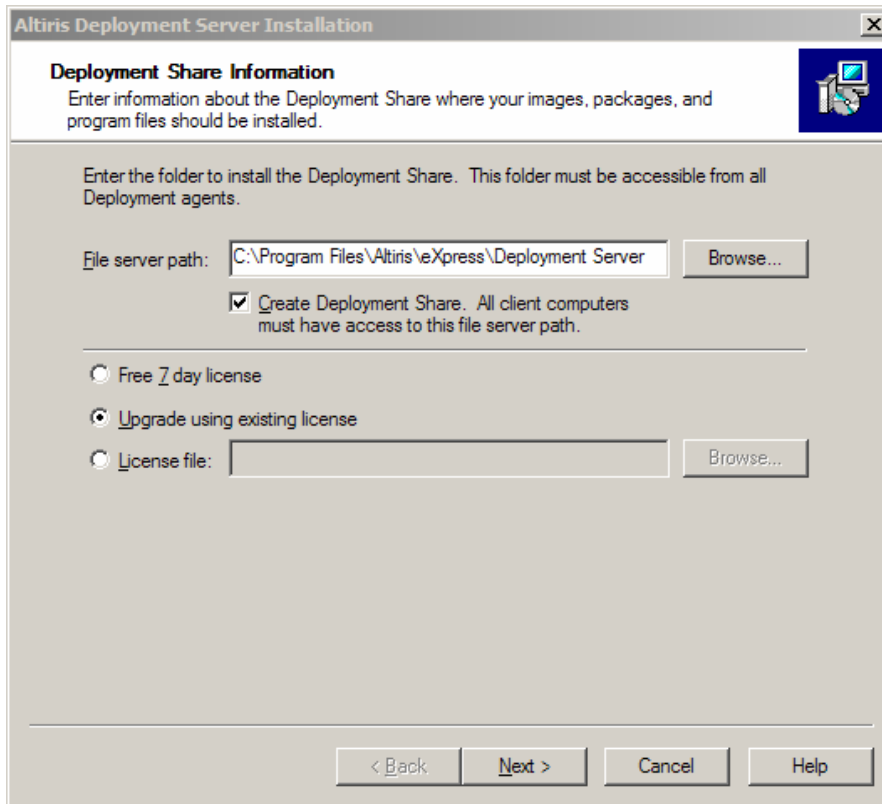
Rapid Deployment Pack 2.xx to 3.xx upgrade

All jobs are new with the 3.xx installation. The job names reflect the Linux or Windows PE preboot environments. The jobs no longer use the MS-DOS automation environment. The Linux scripted installation jobs use an FTP connection from the Deployment Server and no longer use an NFS server.

Upgrading

To upgrade the Rapid Deployment Pack software currently installed on the Deployment Server, see the “Installing” section in this guide. The Rapid Deployment Pack—Windows Edition 3.xx upgrade process is identical to a first-time installation, with the following exceptions:

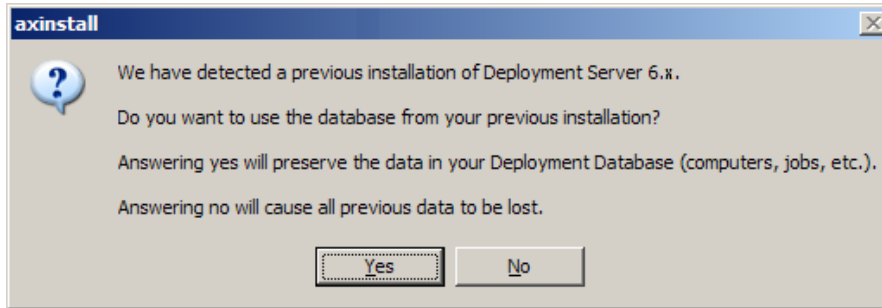
- On the Deployment Share Information screen, verify that **Upgrade using existing license** is selected, and click **Next**.



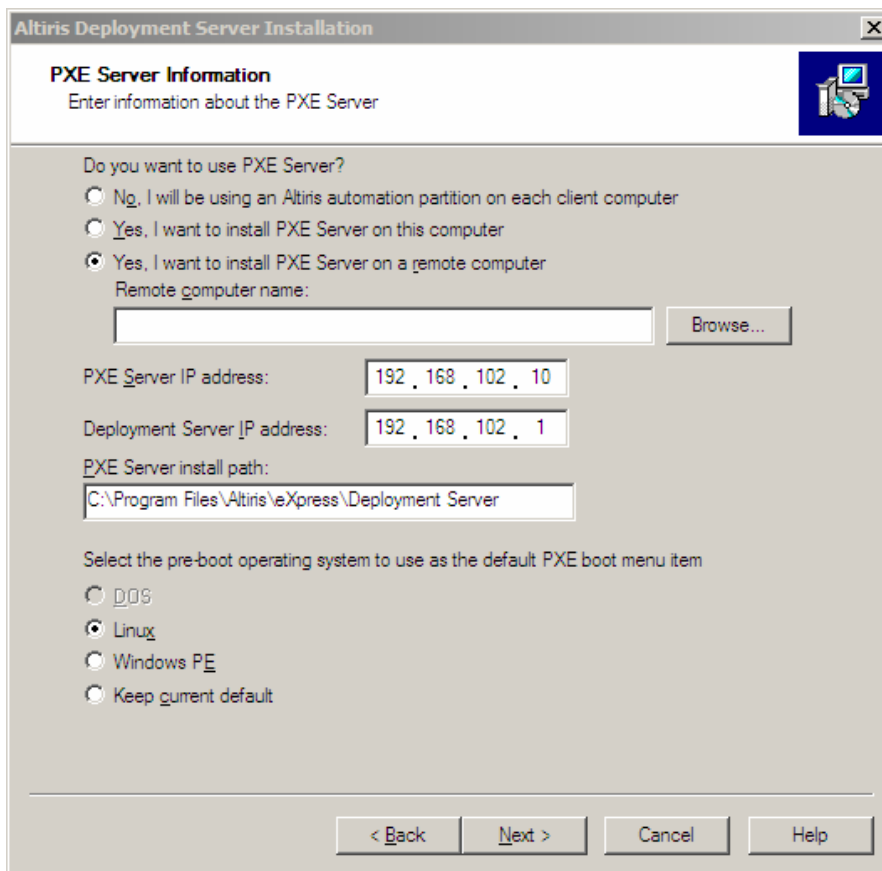
The screenshot shows the 'Altiris Deployment Server Installation' dialog box, specifically the 'Deployment Share Information' tab. The dialog has a title bar with a close button (X) and a small icon of a computer with a gear. Below the title bar, the text reads: 'Deployment Share Information' and 'Enter information about the Deployment Share where your images, packages, and program files should be installed.' Below this, there is a larger text block: 'Enter the folder to install the Deployment Share. This folder must be accessible from all Deployment agents.' The 'File server path:' is set to 'C:\Program Files\Altiris\Express\Deployment Server' with a 'Browse...' button to its right. A checked checkbox is labeled 'Create Deployment Share. All client computers must have access to this file server path.' Below this, there are three radio button options: 'Free 7 day license', 'Upgrade using existing license' (which is selected), and 'License file:'. The 'License file:' option has an empty text box and a 'Browse...' button. At the bottom of the dialog, there are four buttons: '< Back', 'Next >', 'Cancel', and 'Help'.

- When prompted to select if you want to use the database from the previous version of the Altiris Deployment Server, click **Yes** to keep all of the data intact.

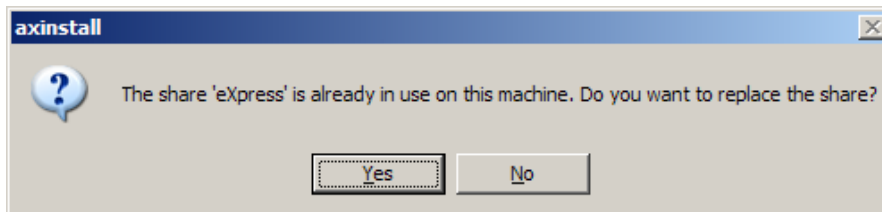
CAUTION: If you do not retain the existing database, all deployment history, customized jobs, and servers listed in the Deployment Server Console are lost.



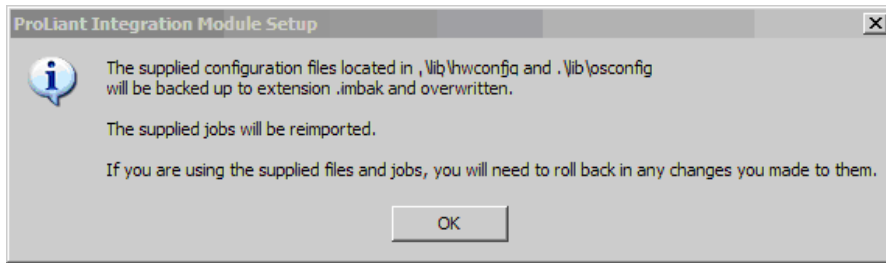
- When prompted to specify the location where PXE is to be installed, either locally or remotely, select **Linux** or **Windows PE** as the default PXE boot menu item, depending on your primary operating system deployment. The default PXE boot menu selection sets the automation environment that a new server initially runs in when connecting to the Deployment Server for the first time. All Rapid Deployment Pack jobs work correctly regardless of the default PXE boot menu selection.



- When prompted to replace the eXpress share, click **Yes**.



- If jobs or files residing on the Deployment Server already exist or have been modified from a previous installation of Rapid Deployment Pack 2.xx or 3.xx, you are prompted to backup or overwrite the existing files.



5 Post-installation steps

Many configuration settings are established during the Rapid Deployment Pack 3.xx software installation. For information about changing these configuration settings, see “Appendix B Manually modifying configuration settings.” For operating system- and platform-specific configuration requirements, see the predeployment configuration information in the *HP ProLiant Essentials Rapid Deployment Pack—Windows Edition User Guide*.

This section provides instructions to create physical boot media for server deployment. This process is necessary only if PXE is not used in the deployment infrastructure.

You can use physical boot media, such as a CD-ROM, DVD, or USB device, to connect the target system to the Deployment Server. The boot media can be used in the target system drive, or an image of the boot media can be accessed using the Remote Insight Lights-Out Edition (RiLOE) or Integrated Lights-Out (iLO) Virtual Media option. The Virtual Media option is not an integrated feature of the Rapid Deployment Pack.

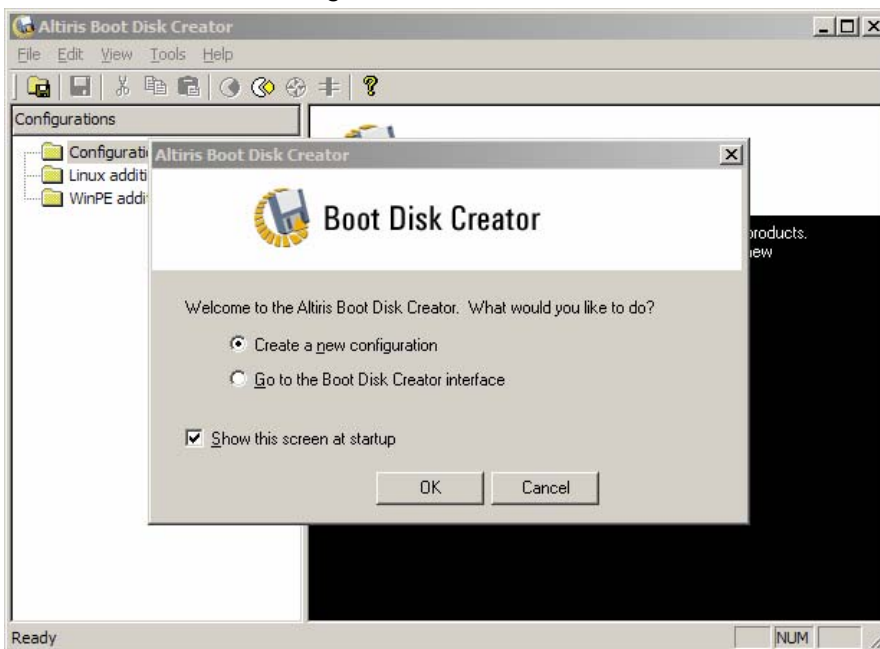


IMPORTANT: To use the iLO Virtual Media option, you must purchase a license for iLO Advanced Pack. For information about iLO Advanced Pack, see <http://www.hp.com/servers/lights-out>.

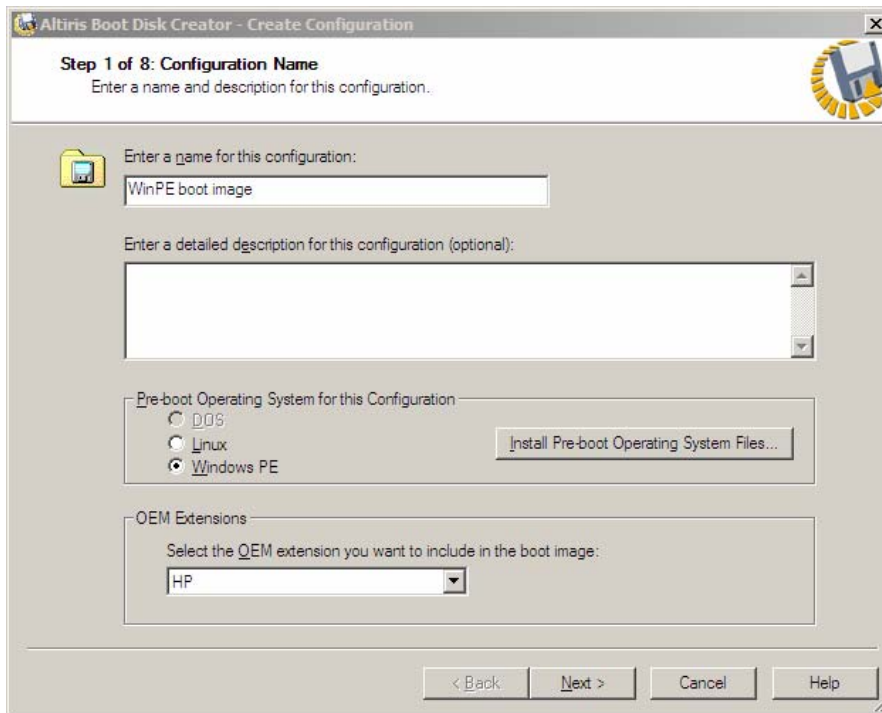
Physical boot media must be created after each Rapid Deployment Pack installation or upgrade to verify that the latest files and drivers are included. A floppy disk is not a viable form of boot media for the Linux and Windows PE automation environments because of disk-space requirements.

To create a boot disk using the Altiris Boot Disk Creator:

1. On the Deployment Server Console, select **Tools>Boot Disk Creator**.
2. Select **Create a new configuration**, and click **OK**.

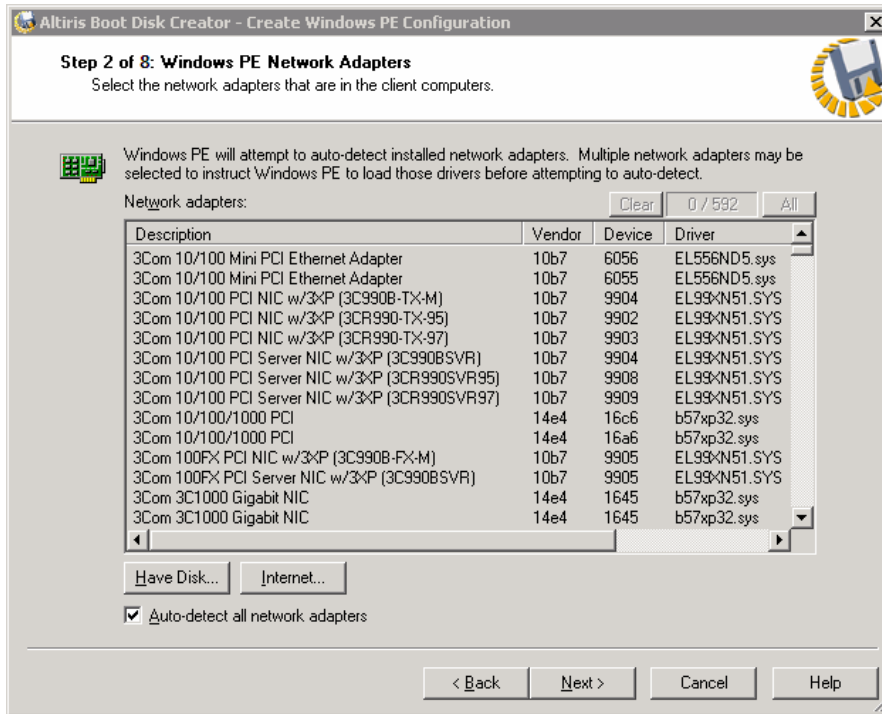


3. Enter a name for the configuration, such as Windows PE ISO or Linux ISO. Enter a description.
4. Select **Windows PE** or **Linux** in the Pre-boot Operating System for this Configuration field, then select **HP** in the OEM Extensions dropdown list. Click **Next**. A Windows PE ISO configuration is used as an example in the following steps.



5. If this is an upgrade and the previous configuration uses the same name, you are prompted to overwrite the existing configuration. Click **Yes**.

6. For Windows PE, verify that the **Auto-detect all network adapters** checkbox is selected, and click **Next**.



IMPORTANT: For Linux, click **Next**. This action uses the drivers provided with the LinuxPE kernel that loads based on vendor and PCI device IDs. Selecting **All** or certain drivers for the target system causes those drivers to load regardless of the PCI device ID. This list might include drivers other than network adapter drivers, such as storage and management drivers.

7. Select the appropriate TCP/IP settings for the target system, and click **Next**.

The screenshot shows the 'Altiris Boot Disk Creator - Create Configuration' dialog box at Step 3 of 8: TCP/IP Protocol Settings. The title bar includes the Altiris logo. The main area contains two radio button options: 'Obtain an IP address from a DHCP server' (which is selected) and 'Use a static IP address'. Below the static IP option, there are three input fields: 'IP address' with the value '100 . 100 . 100 . 100', 'Subnet mask' with '255 . 255 . 255 . 0', and 'Default gateway' with '0 . 0 . 0 . 0'. At the bottom, there are four buttons: '< Back', 'Next >', 'Cancel', and 'Help'.

8. In the Use TCP/IP to connect to the Altiris Deployment Server field, verify that the Server IP address setting reflects the Deployment Server IP address, and click **Next**.

The screenshot shows the 'Altiris Boot Disk Creator - Create Configuration' dialog box at Step 4 of 8: Altiris Deployment Server Communication. The title bar includes the Altiris logo. The main area contains two radio button options: 'Use TCP/IP multicasting to find the Altiris Deployment Server' and 'Use TCP/IP to connect to the Altiris Deployment Server' (which is selected). The multicasting option has input fields for 'Multicast IP address' (225 . 1 . 2 . 3) and 'Port' (402), along with a 'Server name' field. The selected option has input fields for 'Server IP address' (192 . 168 . 102 . 1) and 'Port' (402). Below these is a section titled 'Automation Agent Location' with two radio button options: 'Remote' (selected) and 'Local'. At the bottom, there is a checkbox for 'Lock keyboard' and four buttons: '< Back', 'Next >', 'Cancel', and 'Help'.

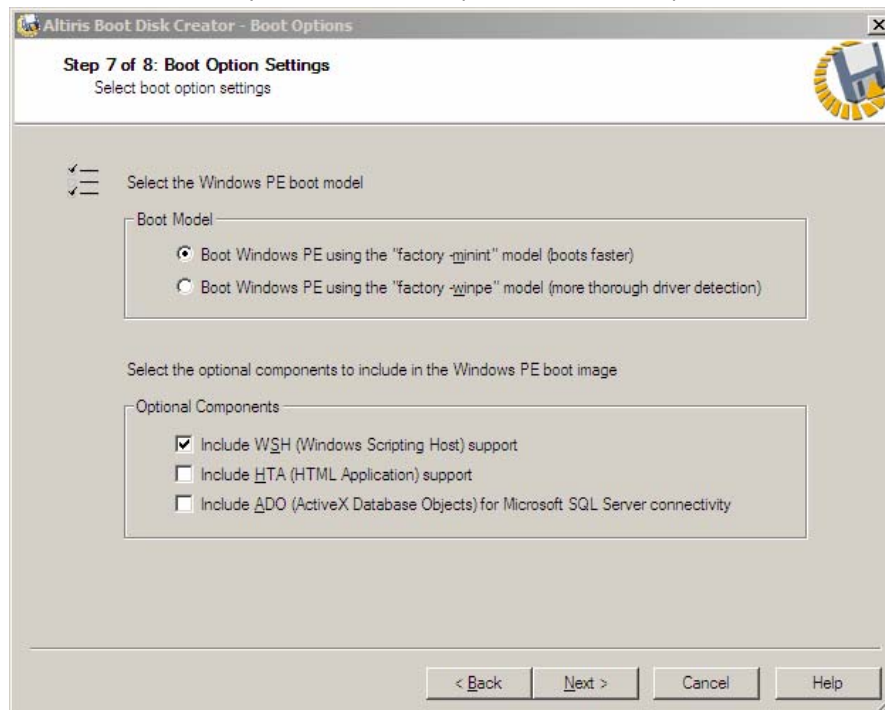
9. Enter the appropriate network settings, and click **Next**.

The screenshot shows the 'Step 5 of 8: Network Connection' window. The title bar reads 'Altiris Boot Disk Creator - Create Configuration'. The main heading is 'Step 5 of 8: Network Connection' with a sub-instruction: 'Enter the network settings for the client computer. These settings are used to connect to the file server.' Below this, there are two sections. The first section, 'Enter the name of the workgroup to connect to.', has a 'Workgroup:' label and a dropdown menu containing 'workgroup'. The second section, 'Enter the account information used to connect to the file server.', has a 'User name:' label with a dropdown menu containing 'Administrator', and two password fields labeled 'Password:' and 'Confirm password:', both containing six asterisks. At the bottom, there are four buttons: '< Back', 'Next >', 'Cancel', and 'Help'.

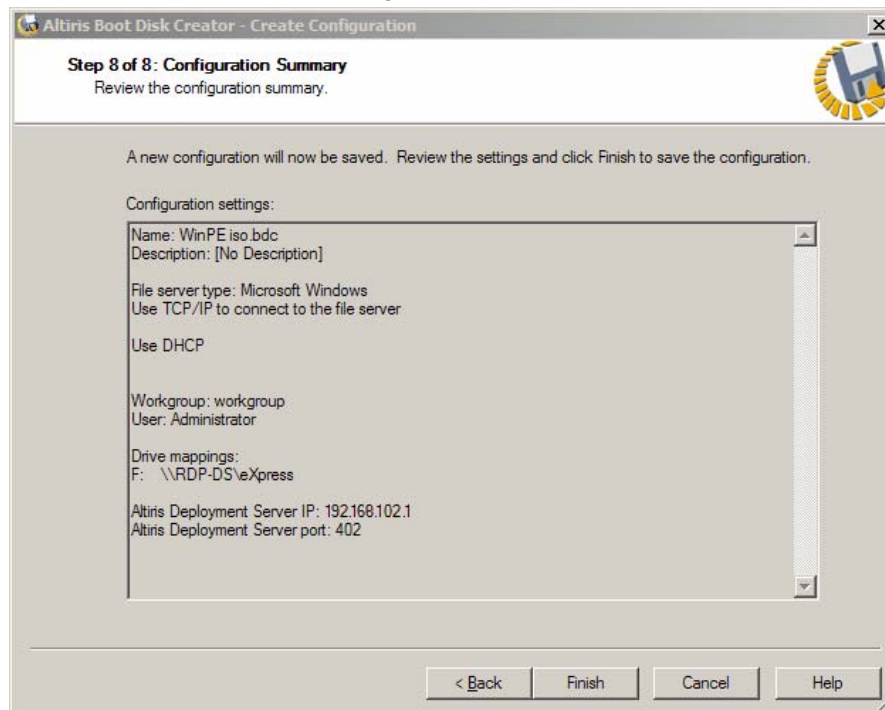
10. Click **Next** to accept the default drive mapping settings.

The screenshot shows the 'Step 6 of 8: Network Drive Mappings' window. The title bar reads 'Altiris Boot Disk Creator - Create Configuration'. The main heading is 'Step 6 of 8: Network Drive Mappings' with a sub-instruction: 'Map a drive to the file server where the Altiris Deployment image files are stored.' Below this, there are two radio button options. The first option, 'Manually create drive mappings', is selected. It includes the text: 'To access the imaging tools, create a drive mapping to the Deployment share. To access an image store that is not on the Deployment share, define additional drive mappings by selecting a drive letter, and entering the server and share name or volume name for that drive.' Below this text are three input fields: 'Drive:' with a dropdown menu showing 'F: \\RDP-DS\Xpress', 'Path:' with a text box containing '\\RDP-DS\Xpress' and a 'Browse...' button, and 'Example:' with a text box containing '\\server\share'. Below these fields is a paragraph: 'If the network does not support NetBIOS name resolution to IP addresses, add entries to the LMHOSTS file to map server names to IP addresses for each drive mapping.' Below this paragraph is a checked checkbox 'Create an entry in the LMHOSTS file for the Deployment server file store (other entries must be added manually)'. Below the checkbox are two input fields: 'Server name:' with a text box containing 'RDP-DS' and 'IP address:' with a text box containing '192 . 168 . 102 . 1'. The second radio button option, 'Use NetWare login scripts to create drive mappings', is unselected. At the bottom, there are four buttons: '< Back', 'Next >', 'Cancel', and 'Help'.

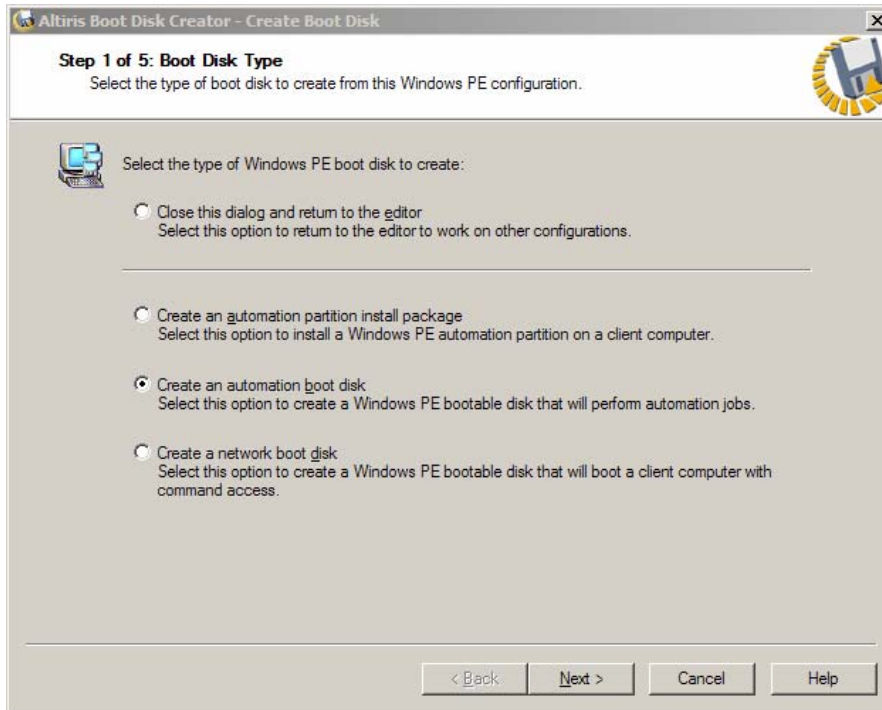
11. For Windows only, click **Next** to accept the default boot option.



12. Click **Finish** to create the configuration.



13. Select **Create an automation boot disk** to save the configuration to a disk, and click **Next**.



14. Select one of the following options:

- For ISO CD images, select **Bootable ISO CD Image**.
- For USB disks, select **Bootable disk**, enter the location of the USB device and follow the specific directions.



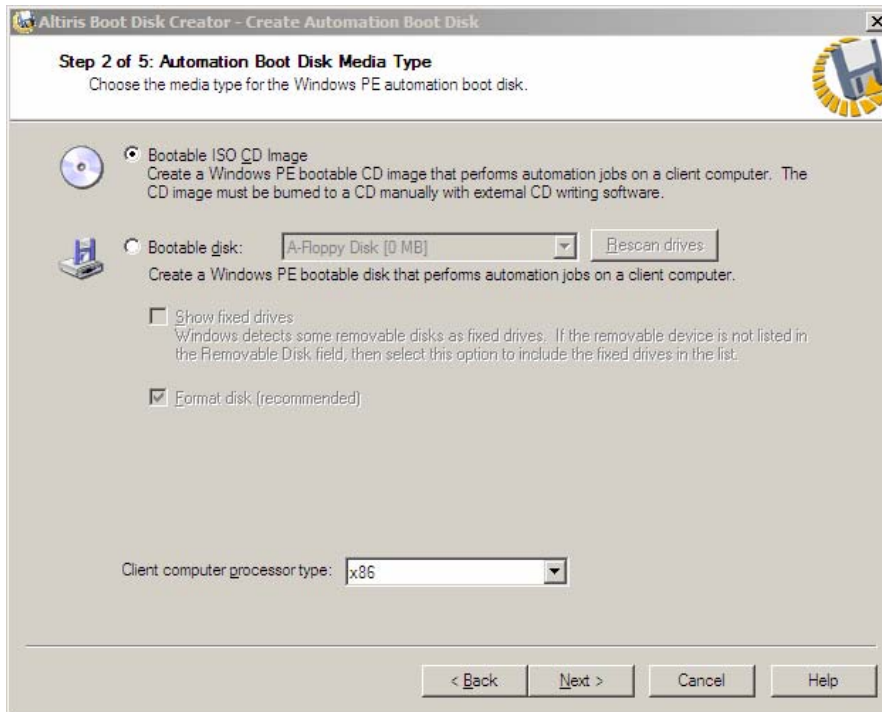
NOTE: To display some USB devices, **Show fixed drives** might need to be selected.

15. Select the appropriate client computer processor type from the dropdown list, for Integrity Servers, select **ia64**.

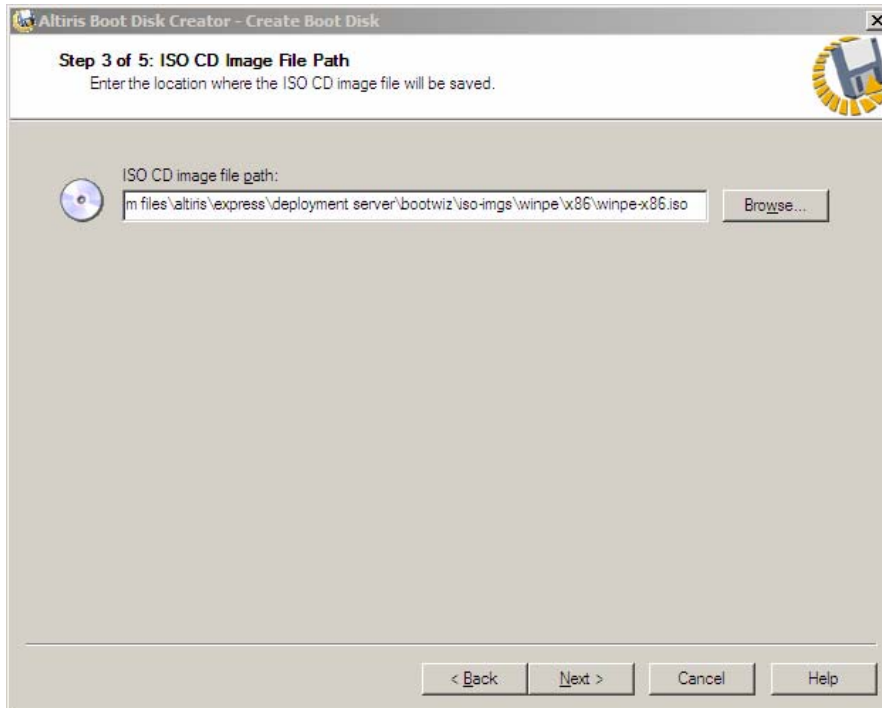


IMPORTANT: More than one processor type image might need to be created to run an RDP-provided job. For example, Windows x64 scripted install jobs run the hardware configuration tasks using the WinPE x86 automation environment and it also runs the Windows install tasks using WinPE x64.

16. Click **Next**.



17. Enter the ISO CD image file path, and click **Next**.



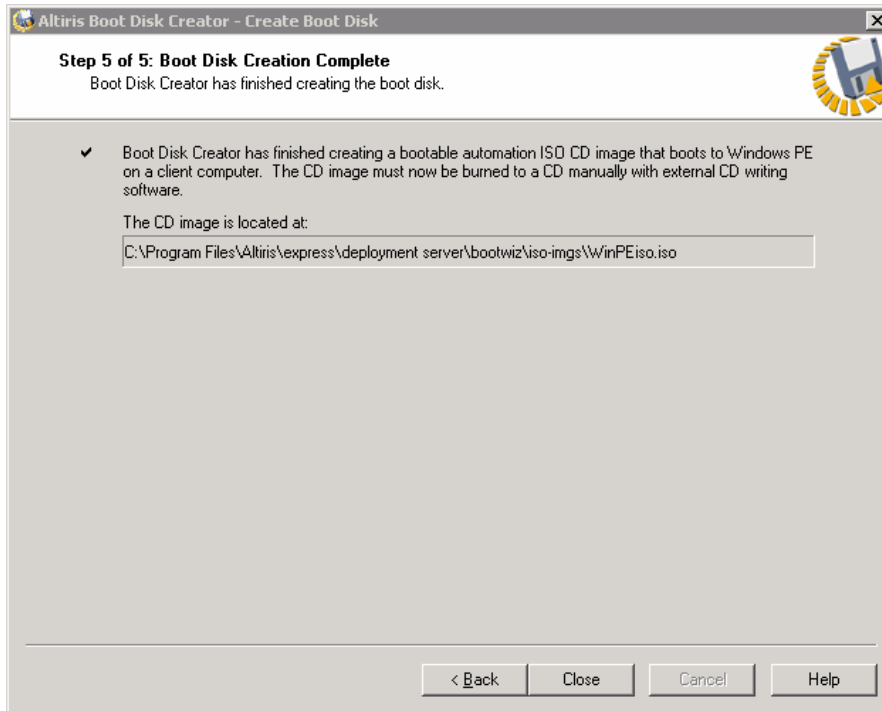
18. If the specified directory does not exist, click **Yes** to create the directory.

19. If the ISO CD image file already exists, click **Yes** to replace the file.

- When the disk is complete, click **Close**.

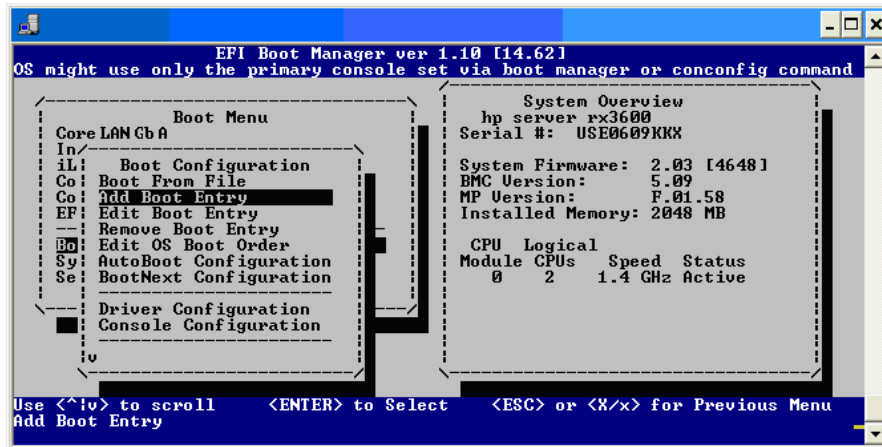


NOTE: To view the contents of the USB device using the Deployment Servers Windows Explorer after Boot Disk Creator has saved the files to the device, for some key types you may need to remove the USB device and then reinsert it into the USB drive.



The following steps must be completed on each Integrity target server to use a USB device:

- From the target server, insert the USB device into the drive.
- From the target's EFI Boot Manager, select **Boot Configuration** from the Boot menu.
- Select **Add Boot Entry**.



- Select the entry for the USB drive.

25. Enter the description `Altiris Automation` for this boot entry.



NOTE: If any other description is used, move the USB boot entry at the top of the boot order list and verify that the LAN boot entries are removed.

26. Press **Enter** for the Load options field.
27. Press **Y** to save changes to NVRAM.
28. Press **Escape** to return to the Boot menu.

6 HP support and contact information

Related documents

HP recommends reviewing the following documentation before reading this guide:

- *HP ProLiant Essentials Rapid Deployment Pack Planning Guide*
- *HP ProLiant Essentials Rapid Deployment Pack—Windows Edition Release Notes*
- *HP ProLiant Essentials Rapid Deployment Pack—Windows Edition Support Matrix*

HP recommends reviewing the *HP ProLiant Essentials Rapid Deployment Pack—Windows Edition User Guide* after reading this guide.

All of the documents can be found in PDF format at <http://www.hp.com/servers/rdp>, from the Rapid Deployment Pack DVD autorun utility, at \docs on the product DVD, and at .\docs on the Deployment Server.

Online resources

- Information about the Rapid Deployment Pack and the latest updates are available from the HP ProLiant Essentials Rapid Deployment Pack website at <http://www.hp.com/servers/rdp>.
- Regularly updated troubleshooting information, frequently asked questions, and specific how-to procedures are available at the HP ProLiant Essentials Rapid Deployment Pack Knowledge Base at <http://www.hp.com/servers/rdp/kb>.
- Problem-solving information and ideas from other IT professions are available in the IT Resource Center (ITRC) User Forum "ProLiant Deployment & Provisioning." This forum is accessible from the Management Software and System Tools link at <http://forums.itrc.hp.com>.
- Information and resources about the Altiris Deployment Solution is available from the Altiris website at <http://www.altiris.com>.

HP contact information

For the name of the nearest HP authorized reseller:

- In the United States, see the HP U.S. service locator webpage at http://www.hp.com/service_locator.
- In other locations, see the Contact HP worldwide webpage at <http://welcome.hp.com/country/us/en/wwcontact.html>.

For HP technical support:

- In the United States, for contact options see the Contact HP United States webpage at http://welcome.hp.com/country/us/en/contact_us.html. To contact HP by phone:
 - Call 1-800-HP-INVENT (1-800-474-6836). This service is available 24 hours a day, 7 days a week. For continuous quality improvement, calls may be recorded or monitored.
 - If you have purchased a Care Pack (service upgrade), call 1-800-633-3600. For more information about Care Packs, see the HP website at <http://www.hp.com>.
- In other locations, see the Contact HP worldwide webpage at <http://welcome.hp.com/country/us/en/wwcontact.html>.

Appendix A Manually installing operating system CDs or DVDs

If you did not copy the Windows, VMware, or Red Hat Linux operating system CDs or DVDs during the installation, manually copy the files for each omitted operating system to verify that the provided Windows, VMware, and Red Hat Linux jobs operate properly. Manually copying the Windows, VMware, and Red Hat Linux operating system files using the following steps produces the same results as copying the files when prompted during the Rapid Deployment Pack installation.

The provided scripted installation jobs rely on the existence of operating system files at `.\lib\osdist\yyyy`, where `yyyy` indicates the operating system shortcut name.

To manually copy the operating system files to the Deployment Server directory:

1. Locate the appropriate `.\lib\osdist` directory on the Deployment Server.
2. Select the appropriate directory for the operating system files to be copied.

Table 1 Operating system directory names

Operating system	Directory name
Windows 2000 Server	w50s
Windows 2000 Advanced Server	w50as
Windows Server 2003, Standard Edition	w52s
Windows Server 2003, Enterprise Edition	w52e
Windows Server 2003, Web Edition	w52w
Windows Server 2003, Standard x64 Edition	w52s.64
Windows Server 2003, Enterprise x64 Edition	w52e.64
Windows Server 2003 IA64, Enterprise Edition	w52e.ia64
Red Hat Enterprise Linux AS 3 Update 8 for x86	rhas3u8
Red Hat Enterprise Linux ES 3 Update 8 for x86	rhes3u8
Red Hat Enterprise Linux AS 3 Update 8 for AMD64 and Intel EM64T	rhas3u8.64
Red Hat Enterprise Linux ES 3 Update 8 for AMD64 and Intel EM64T	rhes3u8.64
Red Hat Enterprise Linux AS 4 Update 4 for x86	rhas4u4
Red Hat Enterprise Linux ES 4 Update 4 for x86	rhes4u4
Red Hat Enterprise Linux AS 4 Update 4 for AMD64 and Intel EM64T	rhas4u4.64
Red Hat Enterprise Linux ES 4 Update 4 for AMD64 and Intel EM64T	rhes4u4.64
Red Hat Enterprise Linux AS 4 Update 4 for Intel Integrity	rhas4u4.ia64
Red Hat Enterprise Linux ES 4 Update 4 for Intel Integrity	rhes4u4.ia64
VMware ESX Server 2.5.3	vmesx253
VMware ESX Server 3.0.1	vmesx301
SUSE Linux Enterprise Server 10 for x86	sles10
SUSE Linux Enterprise Server 10 for AMD64 and Intel EM64T	sles10.64

3. Copy the entire contents of each operating system CD or DVD to the operating system directory.

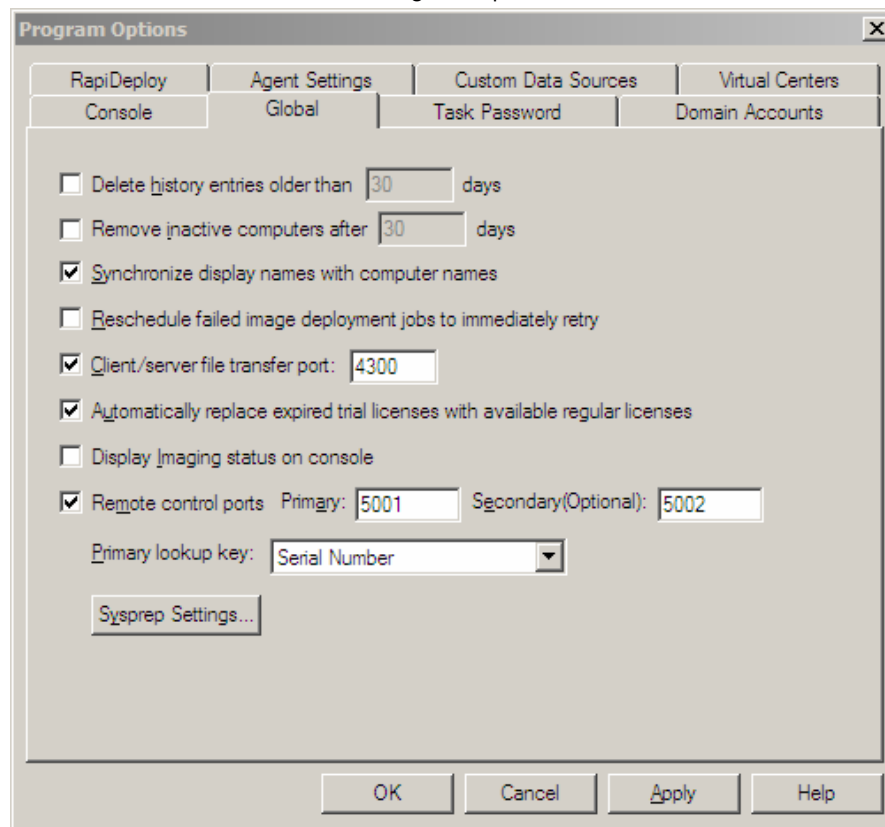
Appendix B Manually modifying configuration settings

Synchronizing the Deployment Server Console names with the target server computer names

The Deployment Server can use a console display name that is different from the actual computer name. However, you can select to have the console always reflect the same name as the computer name. This option can be enabled during the Rapid Deployment Pack installation by selecting the **Enable Synchronize display names with computer names** checkbox on the Configuration Options window.

To enable synchronization of the Deployment Server Console and operating system names after the Rapid Deployment Pack installation:

1. Select **Tools> Options** from the Deployment Server Console.
2. Click the **Global** tab from the Program Options screen.



3. Select the **Synchronize display names with computer names** checkbox, and click **OK**.

Modifying the primary lookup key

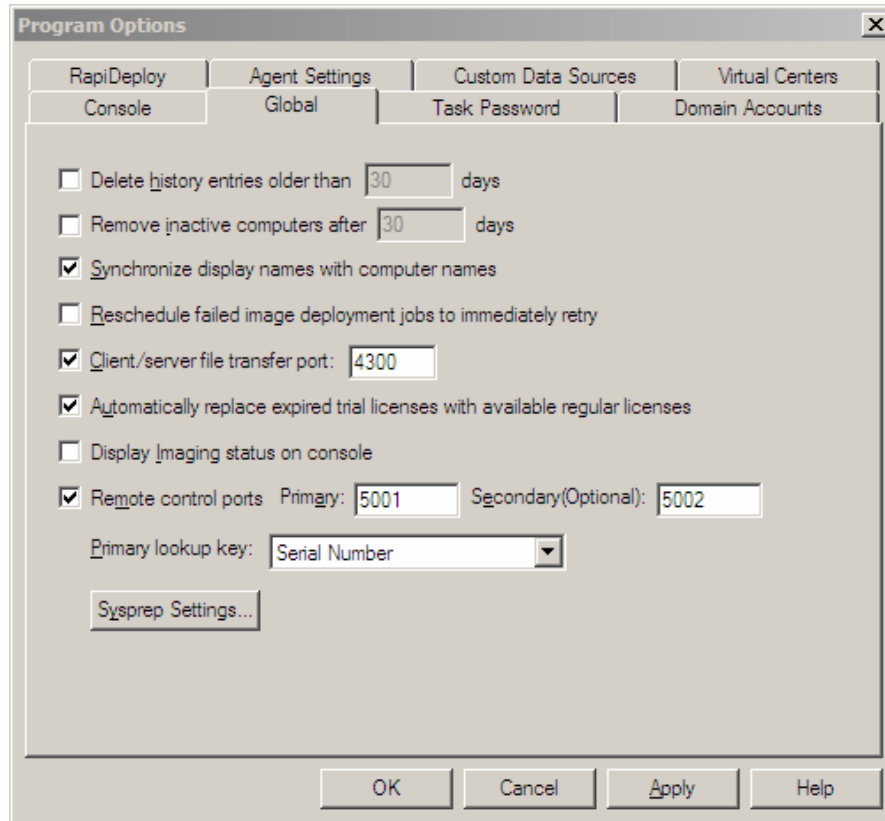
The Deployment Server uses the primary lookup key to determine if a server is already in the database. HP recommends setting the primary lookup key as the server serial number. Setting the primary lookup key as the server serial number has two benefits:

- It enables servers to be imported by their serial number, rather than keys that are more difficult to determine, such as the MAC address.
- It prevents duplicate database entries from occurring when servers have two or more NICs.

The primary lookup key can be set as the server serial number during the Rapid Deployment Pack installation by setting the Primary lookup key dropdown list to **Serial Number**.

To set the primary lookup key as the server serial number after the Rapid Deployment Pack installation:

1. Select **Tools>Program Options** from the Deployment Server Console.
2. Click the **Global** tab from the Program Options window.



3. From the Primary lookup key dropdown list, select **Serial Number**.
4. Click **OK**.

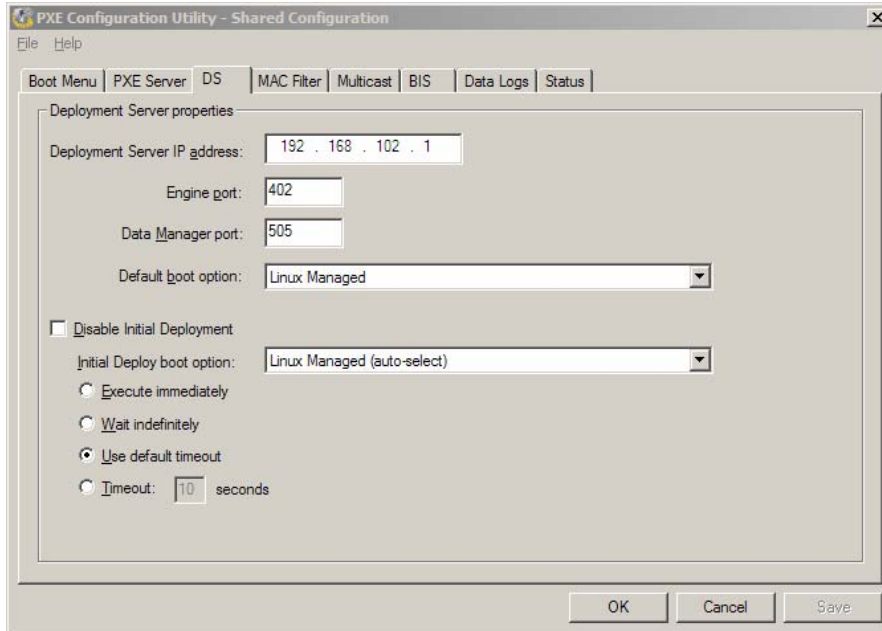
Configuring PXE to automatically process new computers

By default, when a new computer (a computer not listed in the Deployment Server database) performs a PXE boot, the PXE server sends the computer the PXE menu and waits for manual selection of the Initial Deployment option. This process is not practical for servers, especially server blades with no local keyboard, mouse, or display.

You can set the Initial Deploy boot option to use the default timeout by selecting this option on the Configuration Options screen.

To change the Initial Deployment option after the Rapid Deployment Pack Installation:

1. Select **Tools>PXE Configuration** from the Deployment Server Console menu.
2. Click the **DS** tab.



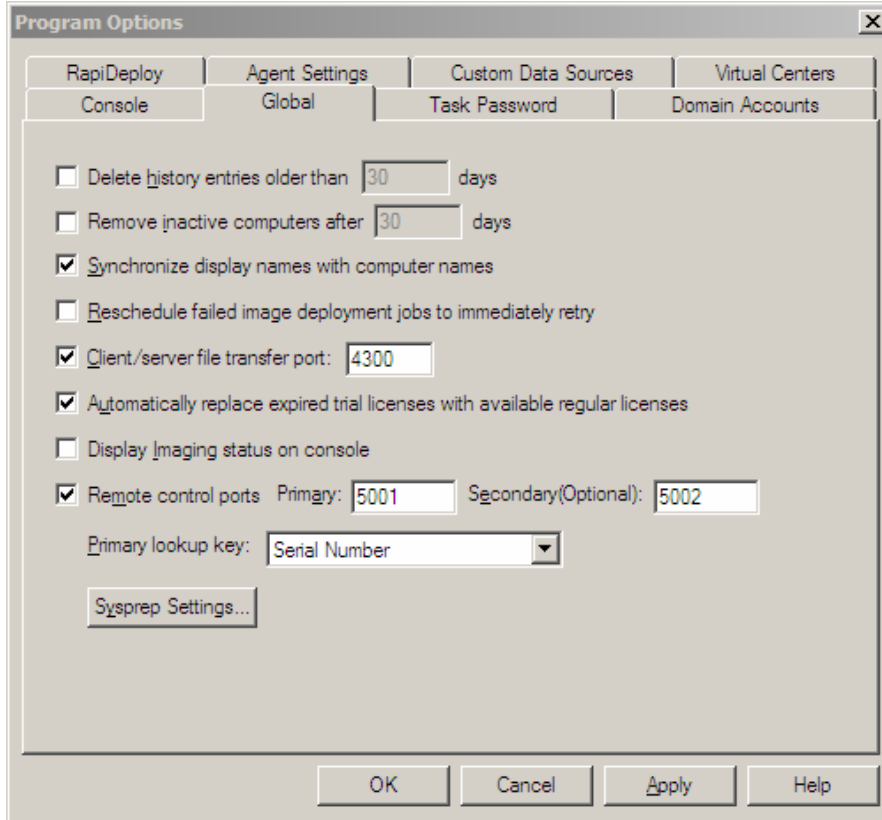
3. Select **Use default timeout**.
4. Click **Save**.
5. Click **OK**.

Client/server file transfer port set to 4300

For adagent to properly transfer files under VMware ESX 3.x, the client/server file transfer port must be set to match the value in the supplied ESX kickstart files.

To set the client/server file transfer port to 4300 after the Rapid Deployment Pack installation:

1. Select **Tools>Program Options** from the Deployment Server Console.
2. Click the **Global** tab from the Program Options window.



3. Select the **Client/server file transfer port checkbox**, and enter 4300.

Creating an IIS FTP virtual directory

For Linux and VMware ESX Server scripted installation deployments, a virtual directory must be configured on an FTP server, such as IIS. If IIS is installed, you can configure the virtual directory by selecting the **Create IIS FTP virtual directory “DSLIB”** checkbox on the Configuration Options screen.

If you use an FTP server other than IIS, use the same entry settings.

To configure IIS FTP after the Rapid Deployment Pack installation:

1. Launch the Internet Information Services (IIS) Manager.
2. Expand the directory in the left pane, and select **Default FTP Site** or another existing FTP site.
3. Right-click the **FTP site**, and select **New>Virtual Directory**.
4. Complete the Virtual Directory wizard, entering the following information when prompted.

Table 2 Virtual directory information

Field	Entry
Virtual Directory Alias	DSLIB
FTP Site Content Directory	₁C:\Program Files\Altiris\eXpress\Deployment Server\lib
Virtual Directory Access Permissions	Read

₁This value assumed that the Deployment Server was installed on the C drive.

5. Right-click the **FTP site** and select **Properties**.
6. Click the **Security Accounts** tab.
7. Select **Allow Anonymous Connections**, and click **OK**.
8. If the FTP site name is followed by “(Stopped),” right-click the site name, and select **Start**.

Windows product keys

For Windows scripted installation deployments, a Windows product key must be provided. You can enter these keys in the Windows 2000 Product Key, Windows 2003 Product Key, Windows 2003 x64 Product Key, or Windows 2003 ia64 Product Key fields on the Configuration Options screen during the initial Rapid Deployment Pack installation.

To manually configure or reconfigure the Windows product keys after the initial Rapid Deployment Pack installation, use the User Tokens Editor accessed from the Deployment Server Console at **Tools>Integration Module**.

Table 3 User Tokens table entries

Name	Value
w50productkey	XXXXX-XXXXX-XXXXX-XXXXX-XXXXX
w52productkey	XXXXX-XXXXX-XXXXX-XXXXX-XXXXX
w52.64productkey	XXXXX-XXXXX-XXXXX-XXXXX-XXXXX
w52.ia64productkey	XXXXX-XXXXX-XXXXX-XXXXX-XXXXX

Appendix C Installing an FTP server

For Linux and VMware ESX Server deployments, an FTP server must be installed, such as the Microsoft IIS FTP service.

To install ISS FTP service:

1. Log in to the Deployment Server as a user with administrator rights.
2. Click **Start>Control Panel>Add/Remove Programs**.
3. Click **Add/Remove Windows Components**.
4. For Windows Server 2003 systems, select **Application Server**, and click **Details**.
5. Select **Internet Information Services (IIS)**, and click **Details**.
6. Select **File Transfer Protocol (FTP) Server** and click **OK**.
7. For Windows Server 2003 systems, click **OK** again.
8. Click **Next**.

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