



ZENworks[®]

Patch Management

Agent Installation Guide

ZENworks Patch Management Server v6.4

Novell[®]

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Novell, Inc.
1800 South Novell Place
Provo, UT 84606
Phone: 800.858.4000
www.novell.com

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Preface

This ZENworks® Patch Management Agent Installation Guide is a resource written for all users of ZENworks Patch Management. This guide defines the concepts and procedures for installing and implementing a successful installation of ZENworks Patch Management.

About This Guide

This guide contains the following chapters:

- Chapter 1, “Preparing for Agent Installation”
- Chapter 2, “Installing Agents”
- Chapter 3, “Automating the Agent Installation”



Tip: This document is updated on a regular basis. To acquire the latest version of this document please refer to the Novell Support Web site (www.novell.com/support)



Document Conventions




The following conventions are used throughout this document to help you identify various information types:

Table 0.1 Document Conventions

Convention	Usage
bold	Command names, database names, options, wizard names, window and screen objects (i.e. Click the OK button)
<i>italics</i>	New terms, variables, and window and page names
UPPERCASE	SQL commands and keyboard keys
monospace	File names, path names, programs, executables, command syntax, and property names

The icons used throughout this document identify the following types of information:

Table 0.2 Icons Used

Icon	Alert Label	Description
	Note:	Identifies paragraphs that contain notes or recommendations.
	Tip:	Identifies paragraphs that contain tips, shortcuts, or other helpful product information.
	Warning:	Identifies paragraphs that contain vital instructions, cautions or critical information.



1 Preparing for Agent Installation

Having successfully installed your ZENworks Patch Management Server (Patch Management Server), you can now proceed to the installation of your ZENworks Patch Management Agents. Following installation the agent is monitored and maintained by the Patch Management Server requiring no additional maintenance.

Installation Methods

ZENworks Patch Management Agents can be deployed using any one (or combination) of the following methods:

Table 1.1 Installation Options

Installation Type	Description
Single Agent Windows MSI Installer	Allows you to run the installer, entering the information as prompted. Also, you can modify the Microsoft Software Installer (MSI) file, using an MSI editor, to include your organization's configuration. The .msi file can be delivered by using a login script, Active Directory Group Policy Object (GPO), or other remote software installation method. The method eliminates the need to physically visit each target computer.
Single Agent Windows x64 MSI Installer	Allows you to run the installer, entering the information as prompted. Also, you can modify the Microsoft Software Installer (MSI) file, using an MSI editor, to include your organization's configuration. The .msi file can be delivered by using a login script, Active Directory Group Policy Object (GPO), or other remote software installation method.
Single Agent Installer for Linux/Unix/Mac/Netware	Allows you to run the installer, entering the information as prompted. You can also perform a silent installation using <code>rsh</code> or <code>ssh</code> .
Single Agent Installer for Windows Vista	Allows you to run the installer, entering the information as prompted. Also, you can modify the Microsoft Software Installer (MSI) file, using an MSI editor, to include your organization's configuration. The .msi file can be delivered by using a login script, Active Directory Group Policy Object (GPO), or other remote software installation method.



Warning: Regardless of the installation method it is vital that, when installing agents, you enter the same serial number used to install your server. Failure to do so could lock out the PLUS_AGENT user account disabling ALL agent communication.



Supported Operating Systems (ZENworks Patch Management Agent)

The following table lists the supported platforms on which the ZENworks Patch Management Agent 6.4 is supported.

Table 1.2 ZENworks Patch Management Agent 6.4 Supported Platforms

Operating System	OS Versions	OS Edition	OS Data Width	Processor Family	Processor Data Width	Min. JRE
Apple Mac OS X	10.2.8 - 10.4.10	All	32/64 bit	x86(Intel)/PowerPC	32/64 bit	1.4.0+
HP-UX	11.00 - 11.23	All	64 bit	PA-RISC	64 bit	1.4.0+
IBM AIX	5.1 - 5.3	All	32/64 bit	PowerPC	32/64 bit	1.4.0+
Microsoft Windows 9x	98 Second Edition	All	32 bit	x86	32 bit	N/A
Microsoft Windows NT	4.0 SP6A - 2003 R2	All ⁽¹⁾	32/64 bit	x86	32/64 bit	N/A
Microsoft Windows XP	All	Professional ⁽²⁾	32/64 bit	x86	32/64 bit	N/A
Microsoft Windows Vista ⁽³⁾	All	All	32/64 bit	x86	32/64 bit	N/A
Novell Netware	6.5	All	32 bit	x86	32 bit	1.3.0+
Novell SUSE Linux	9 - 10	Enterprise	32/64 bit	x86	32/64 bit	1.4.0+
Red Hat Linux	2.1 - 4	Enterprise AS, ES, WS	32/64 bit	x86	32/64 bit	1.4.0+
Sun Solaris	2.6 - 10	All	32/64 bit	SPARC/x86	32/64 bit	1.4.0+
<p>(1) Datacenter edition is not supported (2) Home, Media Center and Tablet PC editions are not supported (3) Windows Vista support requires .NET 3.0</p>						

Supported Languages

ZENworks Patch Management Agent 6.4 is supported on the following languages:

- en-AU: English (Australia)
- en-BZ: English (Belize)



- en-CA: English (Canada)
- en-JM: English (Jamaica)
- en-NZ: English (New Zealand)
- en-ZA: English (South Africa)
- en-GB: English (United Kingdom)
- en-US: English (United States)
- es-ES: Spanish (Spain)
- fi-FI: Finnish (Finland)
- fr-FR: French (France)
- de-DE: German (Germany)
- it-IT: Italian (Italy)
- ja-JP: Japanese (Japan)
- ko-KR: Korean (Korea)
- nl-NL: Dutch (Netherlands)
- pt-BE: Portuguese (Brazil)
- sv-SE: Swedish (Sweden)
- zh-CN: Chinese (Simplified)
- zh-CHS: Chinese (Simplified)
- zh-TW: Chinese (Traditional)
- zh-CHT: Chinese (Traditional)

Requirements

The following section lists the hardware and software requirements for the Agent.



Note: You must disable any virus-scanning software prior to the installation of the Novell ZENworks Patch Management Agent for Windows. Failure to do so may result in an unsuccessful agent installation.

Agent for Windows

- Local or Domain Administrator or Administrator equivalent



Warning: The install (and uninstall) must be done by a Administrator or Administrator equivalent.

- 500 MHz Processor or higher
- 256 MB RAM



- 20 MB of free disk space for agent installation
- A single 10 Mbps network connection (with access to the Update Server)
- Sufficient free disk space to download and install patches (varies dependent upon size of patch)
- Windows Installer 2.0 or higher
- Microsoft Internet Explorer 5.01 or higher (Internet Explorer 5.5 or higher if using SSL)
- Network connectivity to your ZENworks Patch Management Server (6.4 or higher)



Note: Windows 2000 computers require Service Pack 1
Windows NT 4.0 computers require Service Pack 6a

Agent for Linux, UNIX, Mac, and Netware

- Superuser privileges on the target machine



Warning: The install (and uninstall) must be done by the root user (superuser).

- 2 MB of free disk space for agent installation
- 500 MHz or greater processor
- 256 MB RAM
- 10 Mbps network connection (with access to the Update Server)
- Sufficient free disk space to download and install patches
- Network connectivity to your ZENworks Patch Management Server
- Presence of /tmp directory (/var/tmp directory on Solaris) for temporary file storage and processing.



Warning: There must be no whitespaces (such as a space, tab, or newline character) in the absolute path of the installation directory.

2 Installing Agents

The following section includes instructions for installing the ZENworks Patch Management Agent.

In this chapter

- “Installing the Single Agent for Windows (32 or 64 bit)”
- “Installing the Agent for Windows Vista (32 and 64 bit)”
- “Installing the Agent for Linux, UNIX, Mac, and Netware”

Downloading the Installer

The standard agent install requires logging into the Patch Management Server administration console from the target computer then downloading the installer to that computer.

To Download an Installer

1. Log on to the target computer as the local **administrator** (or a member of the **LOCAL_ADMIN**s group).
2. Launch your web browser.
3. Type your ZENworks Patch Management Server URL in your web browser's *Address* field. Press **Enter**.
4. Type your **User Name** in the *User name* field. Press **TAB**.
5. Type your **password** in the *Password* field.
6. Click **OK**.
The *ZENworks Patch Management Server Home* screen opens.
7. Select **Devices**.



- 8. Click **Install**.
The *Agent Installers* page opens.

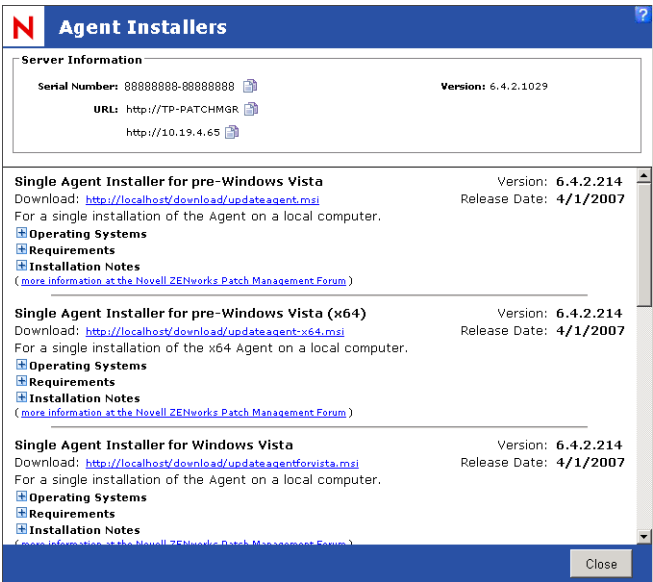


Figure 2.1 Agent Installers

- 9. Select the download link corresponding with the installer you need to start the download.
The *Download* dialog box opens.
- 10. Click **Save**.
The installer downloads to the location you specify on your computer.
- 11. In the *Agent Installers* screen, click **Close**.
The *Agent Installers* screen closes.

Installing the Single Agent for Windows (32 or 64 bit)

The following steps apply to both the *Single Agent Windows MSI Installer* and the *Single Agent Windows x64 MSI Installer*. To install the agent for Windows Vista, refer to __.



To Install the Agent

1. From the downloaded location, select the **updateagent.msi** to extract the *ZENworks Patch Management Agent for Windows InstallShield Wizard*.
The *Agent Install Welcome* screen opens.

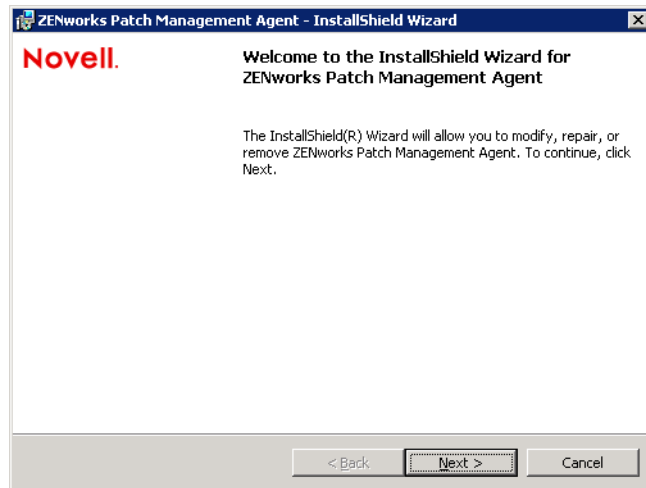


Figure 2.2 Agent Install Welcome Screen

2. Click **Next**.
The *License Agreement* page opens.

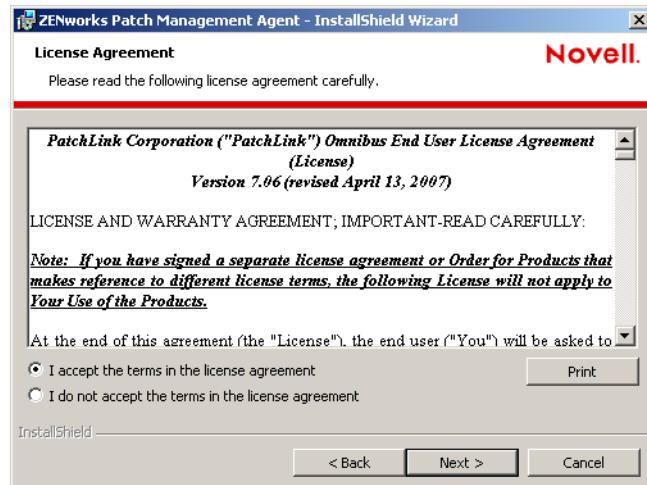


Figure 2.3 License Agreement



- 3. If you agree to the license terms select the **I accept the terms** option and click **Next**
The *Destination Folder* page opens.

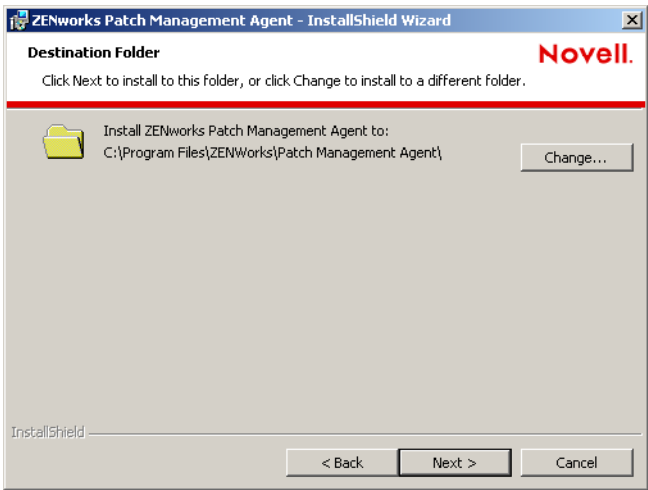


Figure 2.4 Agent Destination

- 4. To change the location of the Agent:
 - a. Click **Change**.
The *Change Current Destination Folder* window opens.

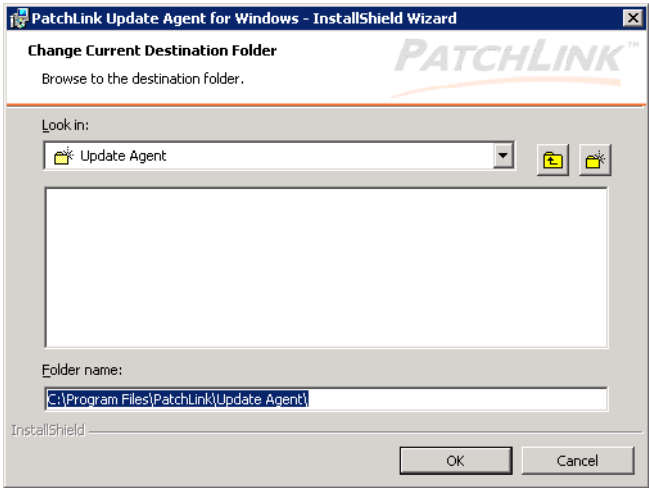


Figure 2.5 Change Current Destination Folder



- b. Change the installation to the location you need.
 - c. Click **OK**.
The *Change Current Destination Folder* closes and the *Destination Folder* window reflects the new location.
5. Click **Next**.
The *Agent Registration* window opens.

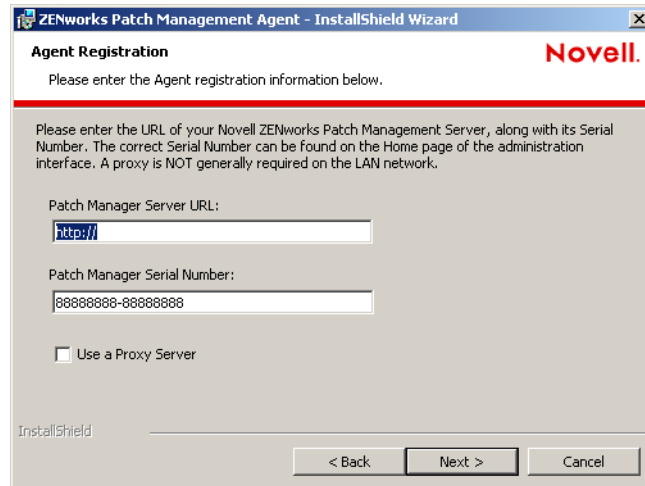


Figure 2.6 Agent Registration

6. Type the appropriate URL in the **Update Server URL** field including the protocol (`http://serverAddress` or `https://ServerAddress` for a secure server).
7. Type your serial number in the **ZENworks Patch Management Server Serial Number** field.



Note: Use the same serial number that was used for the installation of your ZENworks Patch Management Server otherwise the agent will be unable to communicate with the server.



8. If your LAN uses a proxy server:
 - a. Select **Use a Proxy Server**.
The *Proxy Information* window opens.

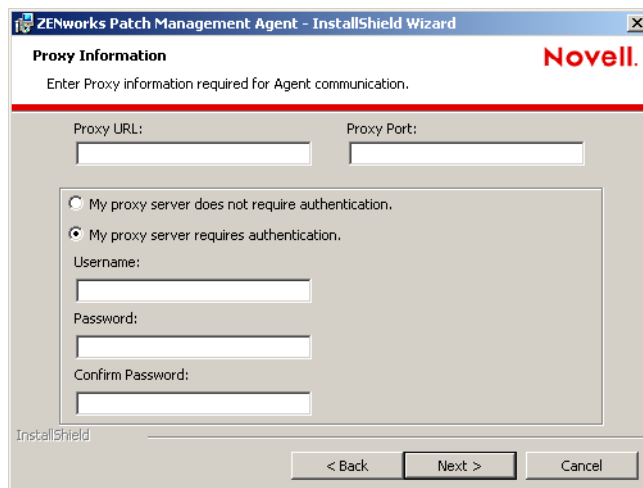


Figure 2.7 Proxy Information

- b. In the *Proxy URL* field, type the **Proxy URL** (and **Port** if required).
 - c. If you are using an Authenticated Proxy:
 - i. In the *Username* field, type the **user name**.
 - ii. In the *Password* field, type a new **password** for the proxy.



Note: In many LAN environments, although a proxy is used for Internet access, a proxy bypass is used to for all access within the corporate network. Therefore, only enter proxy information if your agents will be required to use a proxy to access your ZENworks Patch Management Server.

9. Click **Next**.

The *Ready to Install the Program* page opens.

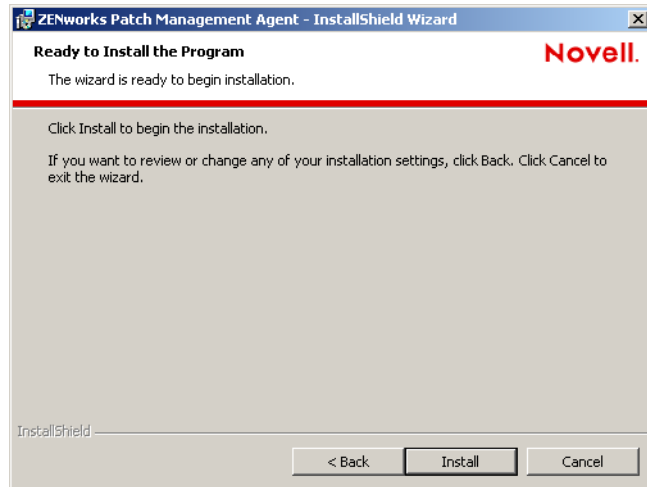


Figure 2.8 Begin Installation

10. Click **Install** to install the agent.

The agent is installed and the *Installation Complete* page displays.

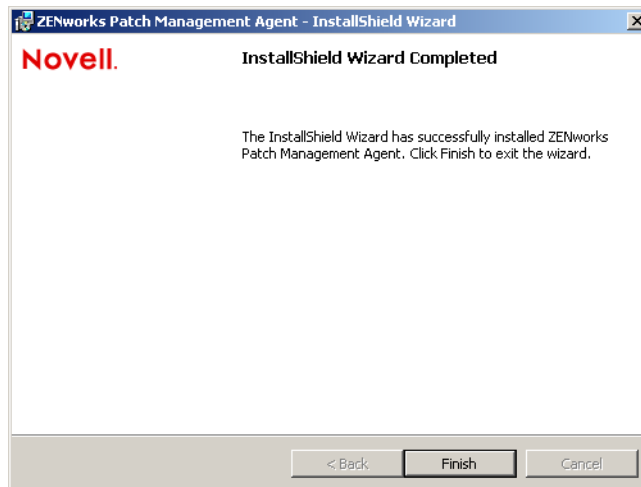


Figure 2.9 Installation Finish

11. Click **Finish** to exit the wizard.



Installing the Agent for Windows Vista (32 and 64 bit)

The following steps apply to the *Single Agent Windows Vista MSI Installer* and the *Single Agent Windows Vista x64 MSI Installer*.

1. From the downloaded location, select the **ZENworks Patch ManagementAgentForVista.msi** to extract the *ZENworks Patch Management Agent for Windows Vista InstallShield Wizard*. The *Agent Install Welcome* screen opens.

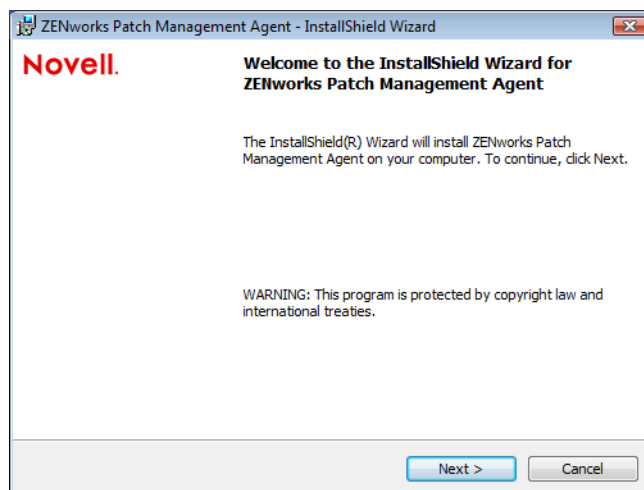


Figure 2.10 Agent Install Welcome Screen

2. Click **Next**.
The *License Agreement* page opens.

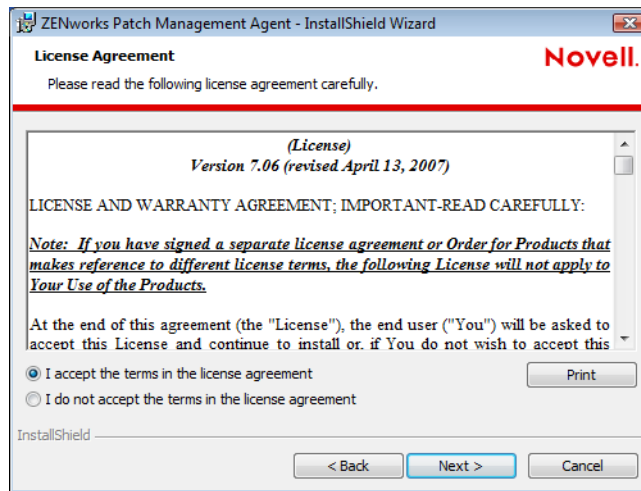


Figure 2.11 License Agreement

3. If you agree to the license terms select the **I accept the terms** option and click **Next**.
The *Destination Folder* page opens.

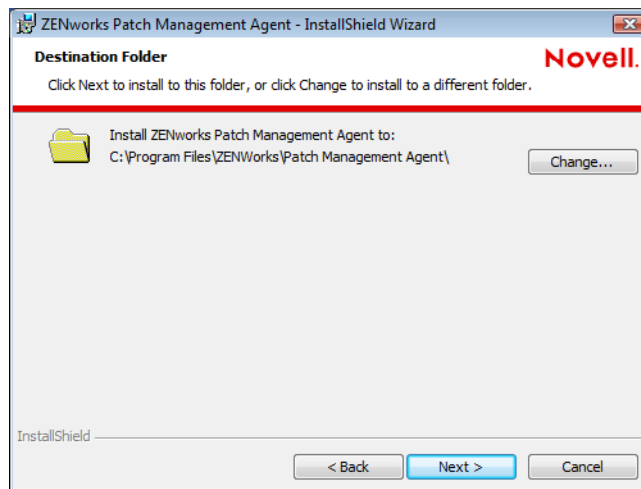


Figure 2.12 Agent Destination



4. To change the location of the Agent:
 - a. Click **Change**.
The *Change Current Destination Folder* window opens.

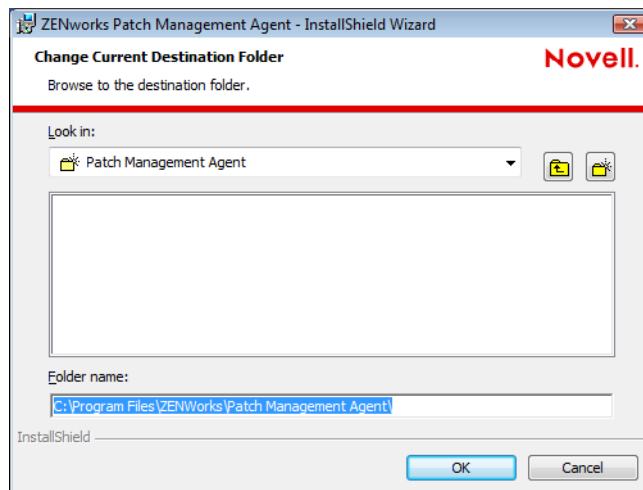


Figure 2.13 Change Current Destination Folder

- b. Change the installation to the location you need.
 - c. Click **OK**.
The *Change Current Destination Folder* closes and the *Destination Folder* window reflects the new location.

5. Click **Next**.

The *Agent Registration* window opens.

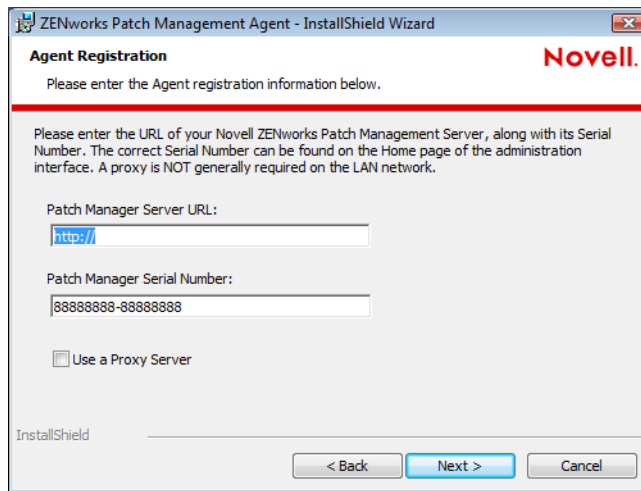


Figure 2.14 Agent Registration

6. Type the appropriate URL in the **ZENworks Patch Management Server URL** field including the protocol (`http://ServerAddress` or `https://ServerAddress` for a secure server).
7. Type your serial number in the **ZENworks Patch Management Server Serial Number** field.



Note: Use the same serial number that was used for the installation of your ZENworks Patch Management Server otherwise the agent will be unable to communicate with the server.



8. If your LAN uses a proxy server:
 - a. Select **Use a Proxy Server**.
The *Proxy Information* window opens.

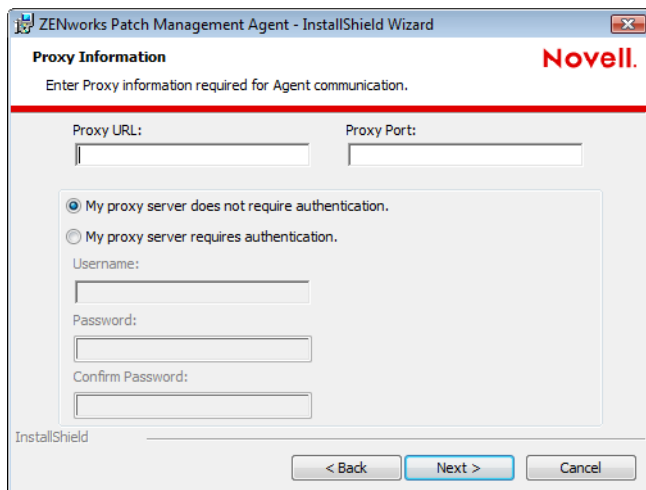


Figure 2.15 Proxy Information

- b. In the **Proxy URL** field, type the Proxy URL.
- c. If required, enter the port in the **Proxy Port** field.
- d. If you are using an Authenticated Proxy:
 - i. Select the **My proxy server requires authentication** option.
 - ii. In the **Username** field, type the user name.
 - iii. In the **Password** and **Confirm Password** fields, type the password for the proxy.



Note: In many LAN environments, although a proxy is used for Internet access, a proxy bypass is used to for all access within the corporate network. Therefore, only enter proxy information if your agents will be required to use a proxy to access your ZENworks Patch Management Server.

9. Click **Next**.

The *Ready to Install the Program* page opens.

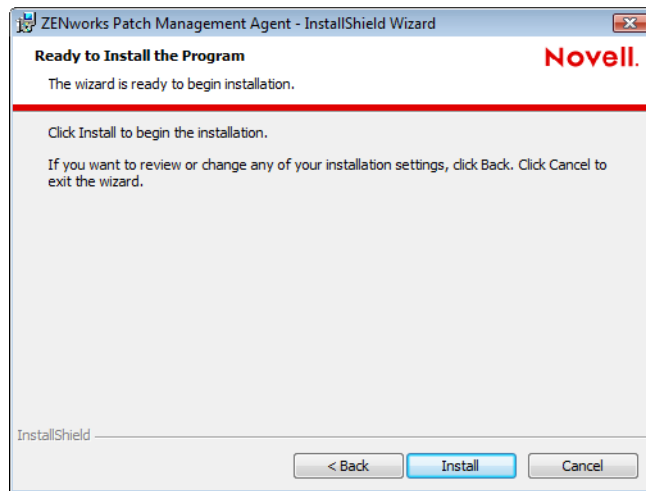


Figure 2.16 Begin Installation

10. Click **Install** to install the Agent.

The agent installs and the *Installation Complete* page opens.

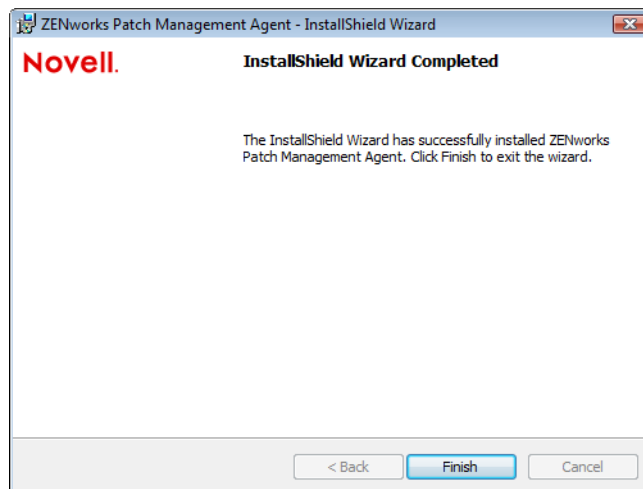


Figure 2.17 Installation Finish



11. Click **Finish** to exit the wizard.

Installing the Agent for Linux, UNIX, Mac, and Netware

Prior to installing the Agent, you must ensure that the currently installed Java version meets the requirements defined under “[Supported Operating Systems \(Update Agent\)](#)”

After ensuring the computer contains an appropriate version of Java, complete the following steps to install the Agent.

To Install the Linux, Unix, Mac, and Netware Agents

1. In the `/root` directory, create a **UpdateAgent** directory.
2. From the downloaded location (refer to “[Downloading the Installer](#)”) select the **UnixUpdateAgent.tar** file, and extract the file’s contents to:
`/root/UnixUpdateAgent`

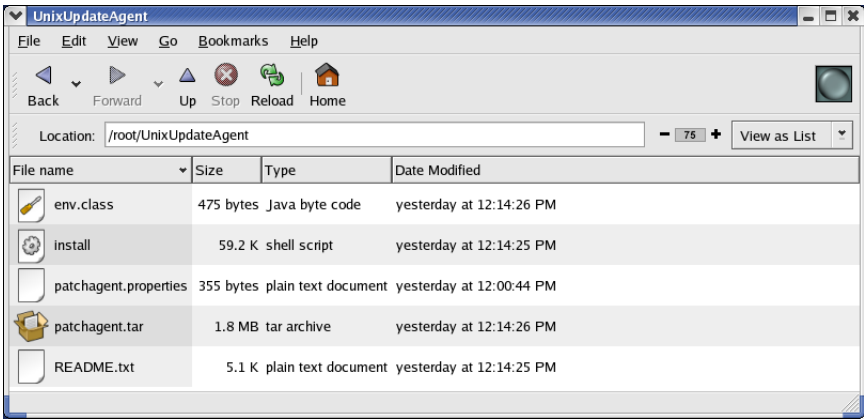


Figure 2.18 UnixUpdateAgent directory

3. Open a *Terminal Window* (**Main Menu > System Tools > Terminal**).
4. Navigate to the `/root/UnixUpdateAgent/` directory.
5. Type `./install` to start the installation process.
6. At the **Enter the Directory where ZENworks Patch Management Agent should be installed [usr/local]:** prompt, type the desired installation path **or** press **ENTER** to accept the default path of `/usr/local`.



Note: The *Enter the Directory...* prompt identified in step 6 does not apply to the Netware installation.



7. At the **Please enter a name for this machine** prompt, type a name for the location to which you are installing.
8. At the **Enter your ZENworks Patch Management Server address**, type the URL or IP of the ZENworks Patch Management Server, to which the agent will be communicating, in the format of `http://ServerAddress` or `https://ServerAddress`.
9. At the **Enter the product serial number that appears as xxxxxxxx-xxxxxxx**: prompt, type your serial number.



Note: You must enter your serial number in the **xxxxxxx-xxxxxxx** format. If you do not have your serial number please contact Novell Support www.novell.com/support

10. At the **Do you have a Proxy [Y/N]:** prompt; type **y** to configure a proxy, or press ENTER to continue without configuring a proxy server.
11. At the **Do you wish to add this agent to existing groups on “Novell ZENworks Patch Management Server”? [Y/N]:** prompt, type **y** to add the agent to a group or **n** to continue.

The installation completes and the terminal link can be disconnected.



Warning: Some issues when installing the ZENworks Patch Management Agent for Linux/Unix/Mac/Netware may include:

- An incorrect Patch Management Server address (if using SSL, the URL starts with `https://`).
- An incorrect serial number.
- Networking problems.
- An incorrect proxy address or port.





3 Automating the Agent Installation

The following section includes instructions for automating the installation of the ZENworks Patch Management Agent to a device.

In this chapter

- “Automating the Windows MSI Installer” on page 21
- “Performing a Silent Install from a Command Prompt” on page 34
 - “Installing the Windows Agent” on page 34
 - “Installing the Linux/UNIX/Mac/Netware Agent” on page 35

Automating the Windows MSI Installer

The *Single Agent Windows MSI Installer* can be used to perform a single installation on the current computer or through the use of the MSI Installer, Group Policy Objects (GPOs), and the Orca package editor on multiple computers. Using these tools you can install the ZENworks Patch Management Agent on all windows computers within your domain.

To use the MSI Installer with Group Policy Objects:

1. Create a Network share as defined in “Creating a Network Share” on page 21.
2. Modify the Single Agent Windows MSI Installer (.msi) file as defined in “Modifying the MSI File” on page 25.
3. Create an Organizational Unit as defined in “Creating an Organizational Unit” on page 30.



Warning: Microsoft Group Policy Object (GPO) allows for mandatory software distribution to computers under control of a particular Organizational Unit (OU) and can be used to distribute the Novell Agent. However, the GPO installation does **not** check for an existing installation of the Novell Agent on the target computer and will reinstall the Agent on any computers in the OU. In order to avoid potential problems caused by reinstalling the Agent ensure that computers with existing Update Agents are NOT members of the OU which contains the Novell software GPO.

Creating a Network Share

Create a network share (with *Read-Only* access) from which all users will be able to access and install the Novell Agent using the MSI installer.

To Create The Network Share

1. Create the *Novell MSI* folder on a network computer.
2. Right-click the *Novell MSI* folder and select **Properties**.
3. Select the **Sharing** tab.



- 4. Select the **Share this folder** option. If needed, change the **Share name**.

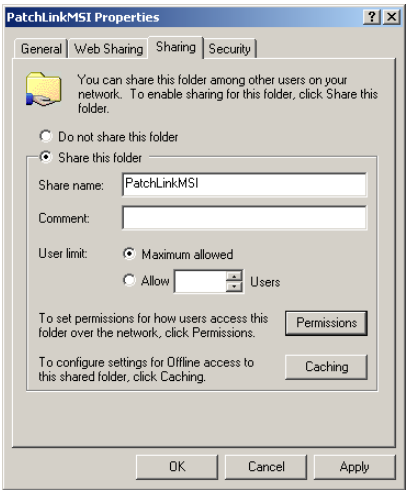


Figure 3.1 Sharing Tab

- 5. Click **Permissions**.
The *Permissions for Novell MSI* window opens.

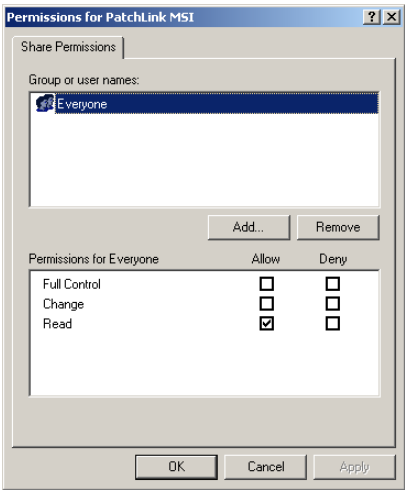


Figure 3.2 Permissions window



6. Click **Add...**

The *Select Users, Computers, or Groups* window opens.

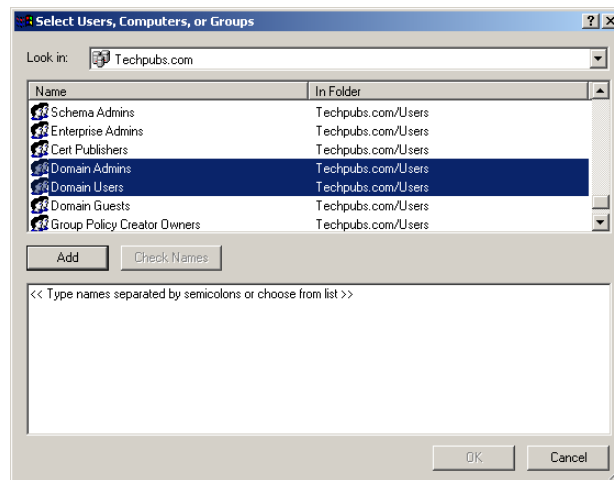


Figure 3.3 Select Users

7. In the add the *Domain Users* and *Domain Admins* groups, select the **Domain Users** group. If you cannot locate the groups, type the names in the **Enter the object names to select** field and click **Check Names**.

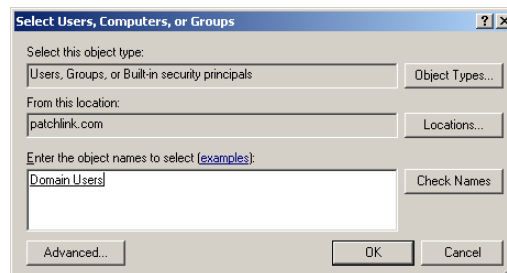


Figure 3.4 Group Search



8. Click **OK**.

The *Select Users, Computers, or Groups* window closes and displays the *Permissions for Novell MSI* window.

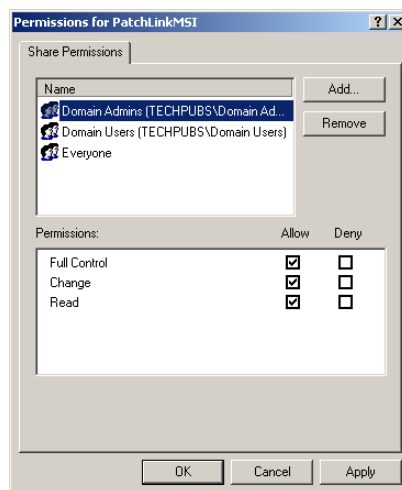


Figure 3.5 Share Permissions

9. Select the *Everyone* group and choose **Deny** *Change* and **Allow** *Read* access.

10. Select the *Domain Admins* group, and choose **Allow** *Full Control* access.

11. Click **OK**.

The *Permissions* window closes and displays the *Properties* window.

12. Select the **Security** tab.

13. Add the *Domain Users*, *Domain Admins*, and *Everyone* groups (refer to steps 6 through 8) applying **Read & Execute** permission to the *Everyone* and *Domain Users* groups and **Full Control** to the *Domain Admins* group.

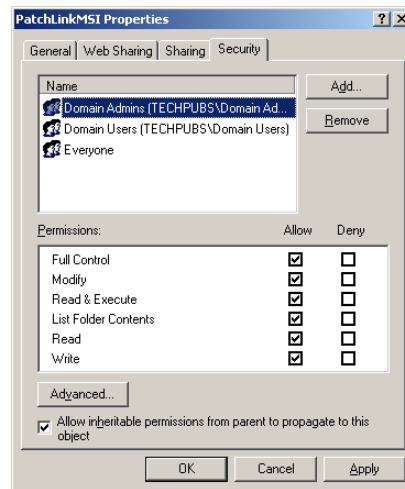


Figure 3.6 Security Tab

14. Click **OK** to close the *Novell MSI Properties* window.
15. Copy **updateagent.msi** from the ZENworks Patch Management Server (in the <InstallDirectory>\Novell\ZENworks Patch Management Server\WebRoot\Download\) directory to the *Novell MSI* folder you created.

Modifying the MSI File

To fully automate the Agent installation you must modify the MSI file to include your **Host Name** and **Serial Number**. Microsoft Orca allows you to make changes to the application so your users will not have to manually enter their name and serial number for their installs. This also allows the application to be installed remotely.

The user customized installer properties are defined in the following table:

Table 3.1 Description of Installation Properties

Property	Description
HOST	The URL (or IP) of your ZENworks Patch Management Server.
SERIAL	The Serial Number of your ZENworks Patch Management Server.



Table 3.1 Description of Installation Properties

Property	Description
USEPROXY	Whether or not a proxy is used. 0=No, 1=Yes.
PROXYURL	The URL (or IP) of your Proxy.
PROXYUSER	Login user for an Authenticated Proxy.
PROXYPASS	Login password for an Authenticated Proxy.
GROUPLIST	Automatically add the Agent to the defined Group(s). Either the Group Name or Distinguished Name can be used. If the Group Name is used, the agent will be added to all of the groups with that name.



Note: Modifying the digitally signed MSI file will invalidate the digital signature assigned by Novell. Depending upon your security settings, this may introduce security warnings and restrictions during Agent installation.

To modify the MSI file using *Microsoft Orca*

1. Install *Microsoft Orca* (or a similar MSI editor tool) to your management workstation.



Note: Orca is installed from the Microsoft Windows Installer SDK which can be downloaded from http://msdn.microsoft.com/library/default.asp?url=/library/en-us/msi/setup/orca_exe.asp.

2. Select **Start > Programs > Orca** to open *Microsoft Orca*.



3. Open the **updateagent.msi** file that you copied to the network share you created. Orca displays the *updateagent.msi* file.

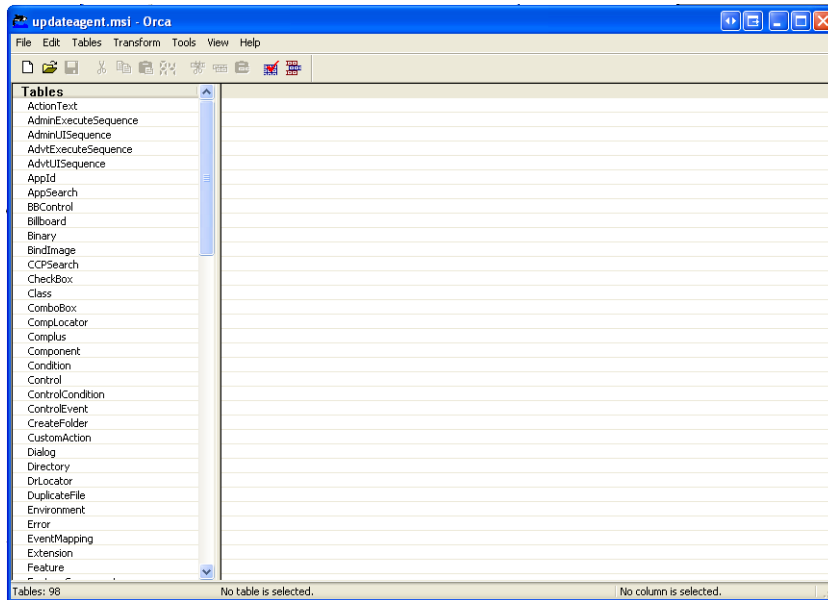


Figure 3.7 Orca Initial display

4. Scroll through the *Tables* list and select the *Property* table.
The *Rows* field populates with the rows associated with the *Property* table.
5. Locate the *Host* row, and click the **Value** field.
The *Value* field is activated and can be edited.
6. Type the **Patch Management Server URL** in the format: `http://ServerName` (or `https://ServerName` for a secure server) in the *Value* field.
7. Locate the *Serial* row, and click the **Value** field.
The *Value* field is activated and can be edited.



8. Type your **PLUS** serial number in the *Value* field.

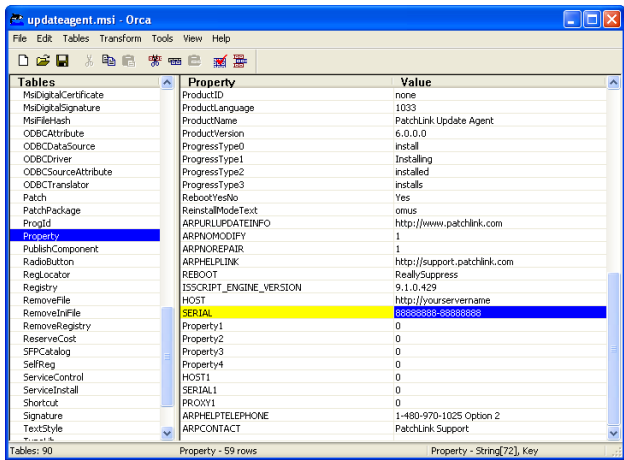


Figure 3.8 Enter Serial Number

9. If you are using a Proxy Server, add the necessary proxy entries as follows:
- a. Right-click in the right window pane and select **Add Row**. The *Add Row* dialog box opens.

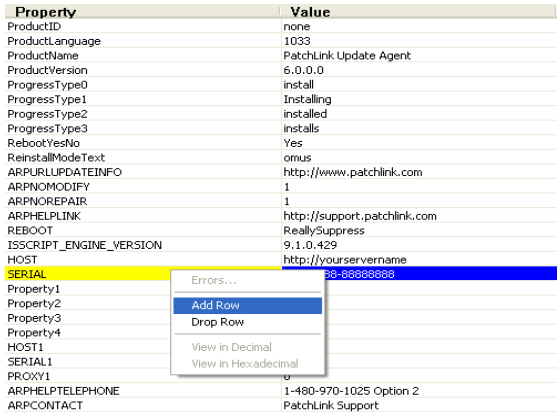


Figure 3.9 Right-Mouse Menu



- b. Enter USEPROXY as the **Property** Column field.

Figure 3.10 Add Row Property

- c. Select **Value** and type *1* to indicate that proxy is enabled.

Figure 3.11 Add Row Value

- d. Click **OK**.
The *Proxy* row is added to the *Property* table.
- e. Add additional rows as needed for the following proxy entries:

Table 3.2 Proxy specific entries

Property	Value
USEPROXY	1
PROXYURL	http://yourproxyserver:port
PROXYUSER (optional)	Authenticated proxy login user
PROXYPASS (optional)	Authenticated proxy login user's password



10. To automatically add the agent to an existing group, add the following entry:
 - a. Right-click in the right window pane and select **Add Row**
The *Add Row* dialog box opens.
 - b. Enter **GROUPLIST** as the **Property** Column field.
 - c. Select **Value** and enter the Group Names in the format:
"GroupName1;GroupName2;GroupNameN"
 - d. Click **OK**.
The **GROUPLIST** row is added to the *Property* table.
11. Click **Save**.
Orca saves the changes to the **updateagent.msi** file.
12. Close Microsoft Orca.



Note: You can now use the **updateagent.msi** file to manually install the ZENworks Patch Management Agent by browsing, from the target computer, to the network share you created and manually opening the **updateagent.msi** file.

Creating an Organizational Unit

To Create a New Organizational Unit

1. Click **Start > Administrative Tools > Active Directory Users and Computers**.
The *Active Directory Users and Computers* management console opens.
2. Right-click the domain tree (*mydomain.com*) and select **New > Organizational Unit**.

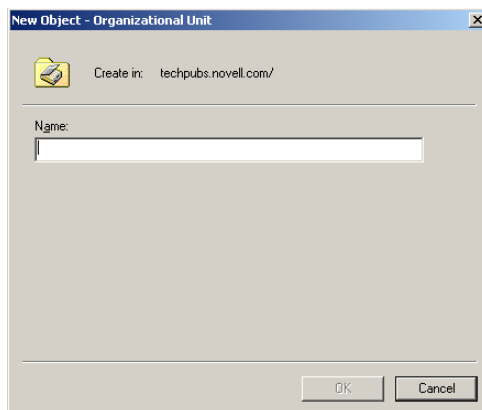


Figure 3.12 Create New OU



3. Assign a **Name** (*NovellMSI*) to your *Organizational Unit (OU)* and click **OK**.
4. Right-click the new OU and select **Properties**.
5. In the *Group Policy Tab*, click **New** and assign a name (*Install Windows Agent*) to the new *Group Policy*.

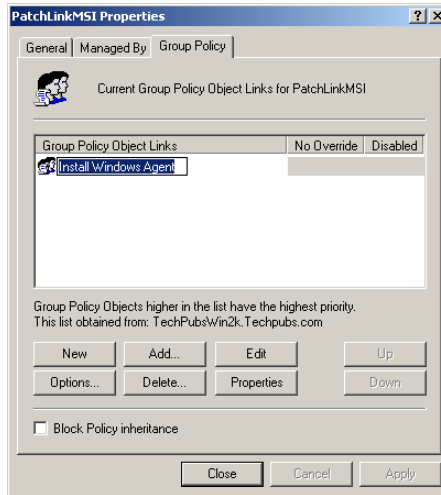


Figure 3.13 OU Group Policy Tab

6. Select your new Group Policy and click **Edit**.
The *Group Policy Editor* opens.
7. Expand the *Software Settings* sub-branch of the *Computer Configuration* branch.



8. Right click *Software Installation* and select **Properties** opening the *Software Installation Properties* window.

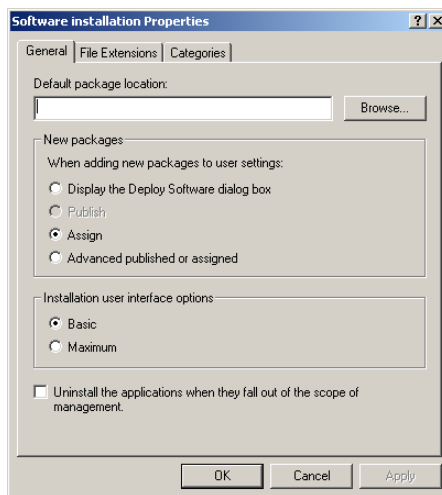


Figure 3.14 General Tab

9. In the *General* tab, select the **Assign** radio button.
10. Select the **Uninstall the applications when they fall out of the scope of management** checkbox in the *General* tab (in the *Advanced* tab in Windows 2003).
11. Click **OK**.
12. Right-click *Software Installation* and select **New > Package**.

13. Browse to the shared folder you created and select the modified `updateagent.msi` package.

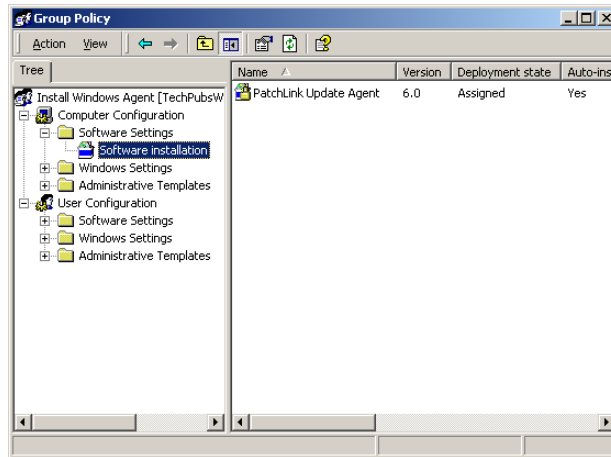


Figure 3.15 Group Policy

14. Close the *Group Policy* editor and click **Close**.
15. In the *Active Directory Users and Computers* management console, select the *Computers* branch of your domain tree (mydomain.com).



16. Select the computers to be added to the new OU.

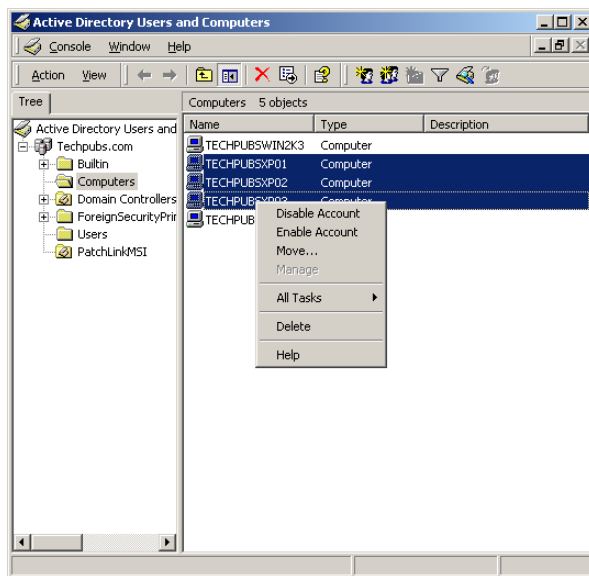


Figure 3.16 Add Computers to OU

17. Right-click and select **Move...** to add them to the OU.
18. Select your OU (*NovellMSI*) from the *Move* window.
19. Close the *Active Directory Users and Computers* management console.

Performing a Silent Install from a Command Prompt

Installing the Windows Agent

In addition to the ZENworks Patch Management Server URL (or IP) and Serial Number, you can define a Proxy and Auto-Assign groups when performing a silent install using the Single Agent Windows MSI Installer:

To Perform a Silent Install from the Command Line

1. Open a command prompt.
2. Define the host location, serial number, and other optional settings using the following syntax:

Syntax

Perform a Silent Install *With* a Proxy

```
msiexec /i "C:\UpdateAgent.msi" /qn HOST="http://myServer" SERIAL="88888888-88888888"
USEPROXY=1 PROXYURL="http://myProxy" PROXYUSER="ProxyUser" PROXYPASS="ProxyPassword"
GROUPLIST="GroupName1;GroupName2;GroupNameN"
```

Perform a Silent Install *Without* a Proxy

```
msiexec /i "C:\UpdateAgent.msi" /qn HOST="http://myServer" SERIAL="88888888-88888888"
USEPROXY=0 GROUPLIST="GroupName1;GroupName2;GroupNameN"
```

Command Line Descriptions

The user customized installer properties are defined in the following table:

Table 3.3 Description of Installation Properties

Property	Description
HOST	The URL (or IP) of your ZENworks Patch Management Server.
SERIAL	The Serial Number of your ZENworks Patch Management Server.
USEPROXY	Whether or not a proxy is used. 0=No, 1=Yes.
PROXYURL	The URL (or IP) of your Proxy.
PROXYUSER	Login user for an Authenticated Proxy.
PROXYPASS	Login password for an Authenticated Proxy.
GROUPLIST	Automatically add the Agent to the defined Group(s). Either the Group Name or Distinguished Name can be used. If the Group Name is used, the agent will be added to all of the groups with that name.

Installing the Linux/UNIX/Mac/Netware Agent

In addition to the ZENworks Patch Management Server URL (or IP) and Serial Number, you can define a Proxy and Auto-Assign groups when performing a silent install using the Single Agent Installer for Linux/UNIX/Mac/Netware:

To Perform a Silent Install

1. Open a command prompt.



2. Define the host location, serial number, and other optional settings using the following syntax:

Syntax

Perform a Silent Install *With* a Proxy

```
./install -silent -d "/user/local" -p "http://myServer" -sno "88888888-88888888"  
-proxy "http://myProxy" -port ## -g "GroupName1;GroupName2;GroupNameN"
```

Perform a Silent Install *Without* a Proxy

```
./install -silent -d "/user/local" -p "http://myServer" -sno "88888888-88888888"  
-g "GroupName1;GroupName2;GroupNameN"
```

Command Line Descriptions

Table 3.4 Command Line Descriptions

Command	Description
-silent	Performs installation silently.
-d	The install directory.
-p	The URL (or IP) of your ZENworks Patch Management Server.
-sno	The Serial Number of your ZENworks Patch Management Server.
-proxy	The URL (or IP) of your Proxy.
-port	The Proxy port.
-g	Automatically add the Agent to the defined group(s). Either the Group Name or Distinguished Name can be used. If the Group Name is used, the agent will be added to all of the groups with that name.



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Novell, Inc.

1800 South Novell Place
Provo, UT 84606

www.novell.com
phone: 800.858.4000

