IBM

IBM System x

IBM System Updates for
Microsoft System Center Configuration Manager
User's Guide

Version 3.2

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> **Note**
>
> Before using this information and the product it supports, read the information in "Notices" on page 115.

Contents

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About this publication

This User's Guide provides the latest information for IBM® System Updates for Microsoft System Center Configuration Manager. IBM System Updates is used to acquire and publish IBM system updates in your environment.

Conventions and terminology

Paragraphs that start with a bold **Note**, **Important**, or **Attention** are notices with specific meanings that highlight key information.

Note: These notices provide important tips, guidance, or advice.

Important: These notices provide information or advice that might help you avoid inconvenient or difficult situations.

Attention: These notices indicate possible damage to programs, devices, or data. An attention notice appears before the instruction or situation in which damage can occur.

Table 1. Frequently used terms and acronyms

Term/Acronym	Definition
DSA	IBM Dynamic System Analysis
MSCCM	Microsoft System Center Configuration Manager
SEP	IBM System Enablement Pack
SSL	Secure Sockets Layer
SUAP	IBM System Updates Acquisition and Publishing
UXSP	UpdateXpress System Packs
UXSPi	UpdateXpress System Package Installer
WSUS	Windows Server Update Services

Information resources

You can find additional information about IBM System Updates for Microsoft System Center Configuration Manager, v3.2 in the product documentation and on the World Wide Web.

PDF files

View or print documentation that is available in Portable Document Format (PDF).

Downloading Adobe Acrobat Reader

You need Adobe Acrobat Reader to view or print these PDF files. You can download a copy from the Adobe Reader Web site.

Viewing and printing PDF files

You can view or print any of the PDF files in the following list. Go to Microsoft Systems Management Solutions for IBM Servers to sign in and locate the download links for the publications. The most current version of each document is available on the product download page.

- *IBM System Updates for Microsoft System Center Configuration Manager, v3.2 Release Notes*
- *IBM System Updates for Microsoft System Center Configuration Manager, v3.2 User's Guide*

Saving PDF files

To save a PDF file, complete the following steps:

1. Right-click the link to the PDF in your browser.
2. Perform one of the following tasks.

Web browser	Command
For Internet Explorer	Click **Save Target As**.
For Netscape Navigator or Mozilla	Click **Save Link As**.

3. Navigate to the directory in which you want to save the PDF file.
4. Click **Save**.

World Wide Web resources

The following web pages provide resources for understanding, using, and troubleshooting IBM System x, BladeCenter® servers, and systems-management tools.

IBM website for Microsoft Systems Management Solutions for IBM Servers

Microsoft Systems Management Solutions for IBM Servers

Locate the latest downloads for IBM System Updates for Microsoft System Center Configuration Manager, v3.2.

IBM Systems Technical support site

Support for IBM Systems and servers.

Locate support for IBM hardware and systems-management software.

IBM Systems Management Software: Download Software Registration

IBM Systems Management Software: Download Registration

Download IBM systems-management software, including IBM Systems Director.

IBM System x Systems Management page

IBM Systems Management

Provides an overview of IBM systems management using IBM Director Agent and IBM Director Core Services.

IBM ServerProven® pages

IBM ServerProven

BladeCenter ServerProven

Obtain information about hardware compatibility with IBM System x, IBM BladeCenter, and IBM IntelliStation® hardware.

Microsoft System Center Configuration Manager page

Microsoft TechNet: System Center Configuration Manager

Chapter 1. IBM System Updates for Microsoft System Center Configuration Manager, Version 3.2

The topics in this section provide a description of IBM System Updates for Microsoft System Center Configuration Manager, v3.2.

Keeping computers up-to-date with BIOS, firmware, driver and hardware-related applications is a key activity for any IT administrator. It is complex and time-consuming for an IT administrator to determine the compliance, plan the updates, select the appropriate hardware updates, and deploy the updates to the right set of systems for keeping the environment stable and reliable.

Through its alliance with Microsoft System Center products Microsoft System Center Configuration Manager (SCCM) and Windows Server Update Services (WSUS), IBM System Updates for Microsoft System Center Configuration Manager, v3.2 is making a commitment to reducing the time and effort of keeping an up-to-date IT environment.

What's new in version 3.2

IBM System Updates for Microsoft System Center Configuration Manager, v3.2 has improved the view journal of updates deployment for endpoints feature. Support of downgrade and new type of update file format (.uxz) is included in this release.

Free features

This release has all of the free features and functions from version 3.0, and includes the following new and improved free features:

- **User Interface enhancements**:

  The user interface layout has been updated to include the new functions introduced in version 3.1. The new User Interface is easier to use.
- **Publish the local updates to Windows Server Update Services (WSUS)**:

  You can publish IBM updates to WSUS.
- **Expire the published updates on the Windows Server Update Services server**:

  You can use this feature to expire the published IBM updates on WSUS.
- **Download the latest updates from the IBM website**:

  You can download the latest updates on the IBM website and download new updates.
- **Force updates to be installed for special hardware or undetected hardware**:

  You can use IBM UpdateXpress System Pack Installer (UXSPi) to install the updates for Brocade, Emulex, and QLogic HBAs and CNAs. These updates will not be installed by default.
- **Full support the new update file format .uxz**:

  You can download/publish/deploy the OS agnostic firmware update which is not a traditional executable file (.exe), but .uxz file.
- **New hardware system support**:

  You can use this release to install the updates for the latest IBM hardware system: IBM HS23E, Flex System x220/x240 Compute Node, System x3530 M4, System x3630 M4, and System x3750 M4.

- **Show the prerequisite and supersede updates information**:

  Some updates have prerequisites and supersede updates. You can view related updates in the detail view.
- **OS type of None Support**:

  Some updates have the Application Operating Systems property as *None*, which means it is OS agnostic. You can deploy this kind of update to any operating system supported by this release.

Premium features

The premium features are available when the IBM System Updates installation is registered with IBM Upward Integration for Microsoft System Center, **v3.1** or higher license. Activation licenses can be purchased by contacting your IBM representative or an IBM Business Partner.

Note to Reviewers: Should v3.1 and higher license remain in the paragraph above and for the following items? Are there new premium features that are only available for v3.2?

The following additional features are fee-based and require the purchase of an activation license of **v3.1** or higher on a per managed endpoint basis.

- Check for the latest updates on IBM website for all or selected updates for a supported machine type.
- Provide detailed information on available updates on IBM website. This includes: general information, installation information, and platform information.
- Provide detailed information on the WSUS updates, including general information and specific packaging information.
- The Generate Updates Comparison Report provides a function for you to export updates to a CSV or a TXT file.
- Using the System Updates tool, you can remotely view a journal of update deployments for endpoints.
- The following feature is a fee-based function that is enabled with a valid product license of **v3.1** or higher:
  - Allow updates to be installed as a downgrade. All published updates with the same update name will be expired.

How IBM System Updates for Microsoft System Center Configuration Manager, Version 3.2 supports IBM systems

IBM System Updates for Microsoft System Center Configuration Manager, v3.2 provides a machine-type based download mechanism that enables customers to download the most recent IBM system updates software transparently, without the effort of searching for updates through the IBM website.

IBM System Updates allows customers to apply the latest updates without using a catalog file, which may not provide the latest updates.

IBM System Enablement Pack

The IBM System Enablement Pack (SEP) contains system-specific codes for the latest drivers, scripts, binaries, and other files. It is used to support new IBM System x and Blade servers for IBM Dynamic System Analysis (DSA), firmware updates, and operating system deployment.

A new system requires a related SEP to support its software tools. The IBM System Updates tool downloads and deploys newer versions of IBM UpdateXpress System Pack Installer (UXSPi) that are available and SEP packages.

Note: You can download the latest version of UXSPi that supports your server from the IBM website. Before deploying UXSPi to the client machine, the necessary SEPs must be deployed and successfully installed.

IBM System Updates hardware and software requirements

The topics in the section provide a description about the hardware and software requirements for IBM System Updates.

Hardware requirements

The IBM System Updates tool has no special hardware requirements. It can be run on a non-IBM server, an IBM server, workstation or laptop that supports the Windows operating system.

Supported operating systems

The IBM System Updates Acquisition and Publishing tool supports the following Windows operating systems:

- Windows Server 2003 SP2/R2
- Windows Server 2003 SP2/R2 x64
- Windows Server 2008 SP1/SP2
- Windows Server 2008 SP1/SP2 x64
- Windows Server 2008 R2
- Windows Server 2008 R2 SP1

Required software

Windows Server Update Services 3.0 SP1 or a later version of the Administration Console is required. If Windows Server Update Services 3.0 SP1 or a later version is not already installed on the local computer, the Windows Server Update Services 3.0 SP1 or later version Administration Console must be installed prior to running the Updates Publisher Setup.

The account that has been used to install the IBM System Updates tool on the host computer should have the Windows Server Update Services Administrator privilege.

Chapter 2. IBM System Updates installation

The topics in this section describe how to install and uninstall IBM System Updates.

Installing IBM System Updates

This topic describes how to install IBM System Updates.

Before you begin

There are two methods for installing IBM System Updates for Microsoft System Center Configuration Manager, v3.2. The first method uses the IBM System Updates for Microsoft System Center Configuration Manager, v3.2 setup package (.exe file). The second method uses the IBM Upward Integration for Microsoft System Center, v3.2 Installer. For more information about the IBM Upward Integration for Microsoft System Center, v3.2 Installer refer to IBM Upward Integration for Microsoft System Center, v3.2.

Procedure

1. Go to IBM System x Integration Offerings for Microsoft Systems Management Solutions.
2. Click **Microsoft System Center Configuration Manager (SCCM), System Updates** to download the latest version of the IBM System Updates tool.

   Note: If Windows Server Update Services 3.0 SP1 or later is not installed on your system, the following message is displayed. Click **OK** to stop the program and complete the installation.

Figure 1. WSUS 3.0 sp1 or later not installed message

3. While the program installs, the Preparing to Install page for the IBM System Updates tool is displayed. Click **Next** and the InstallShield Wizard page opens. If for some reason you need to stop the installation, click **Cancel**.
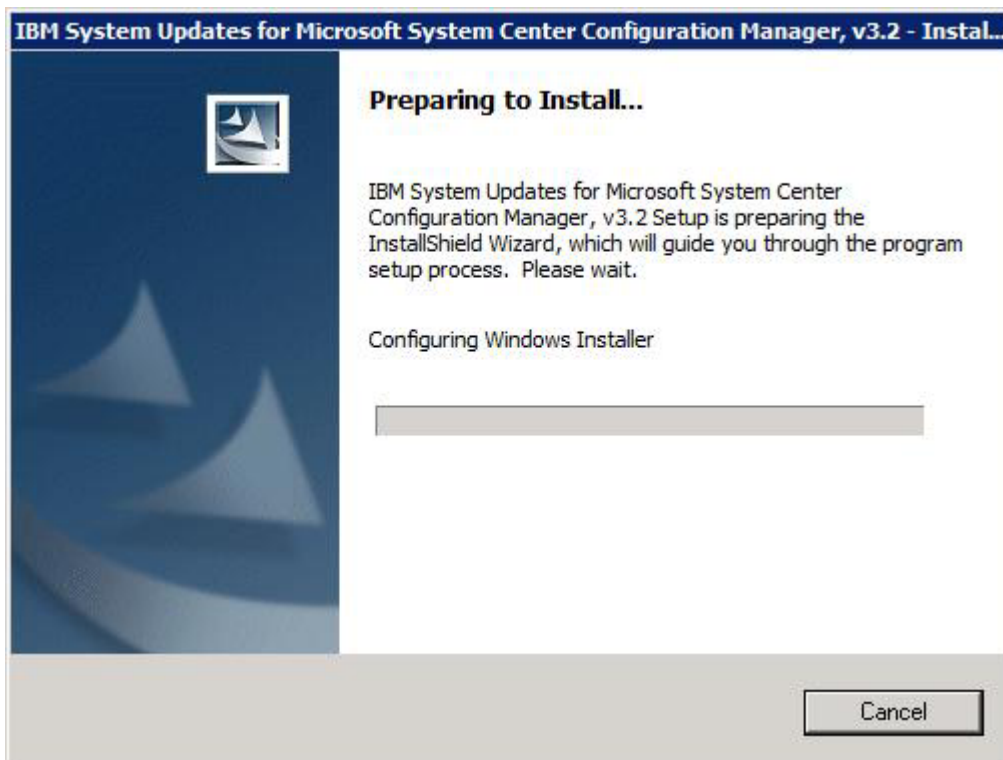
Figure 2. Preparing to Install IBM System Updates

4. Click **Next** to continue the installation and proceed to the License Agreement page.
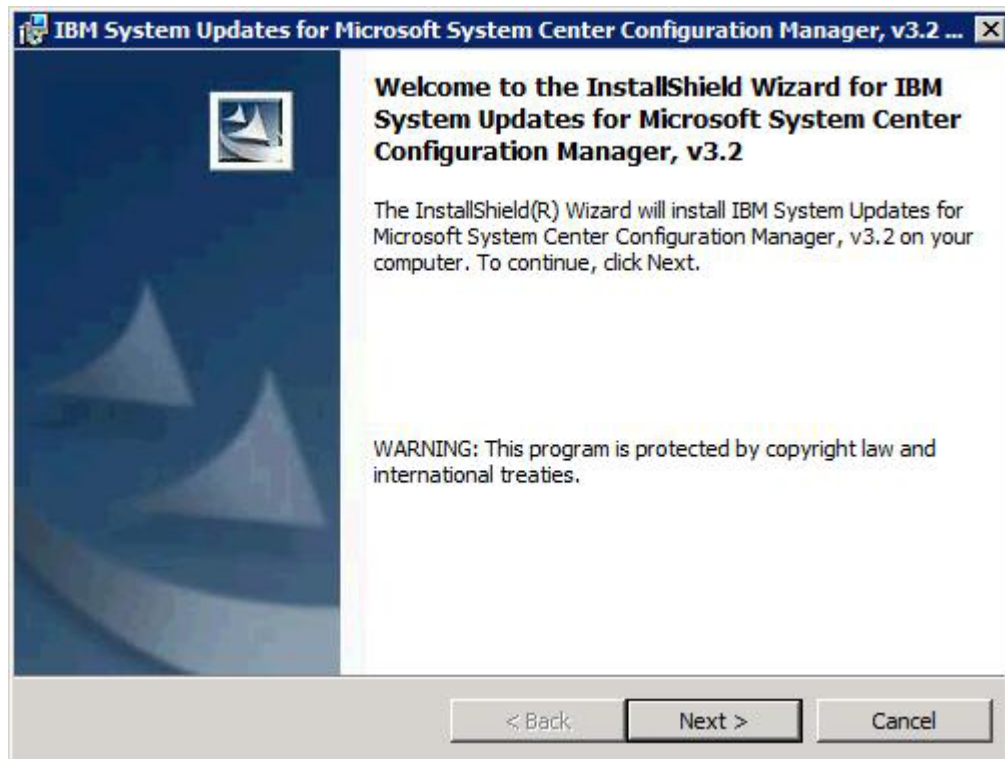
Figure 3. InstallShield Wizard Welcome page for IBM System Updates

5. Read the license agreement terms and then select **I accept the terms in the license agreement**. Click **Next**.
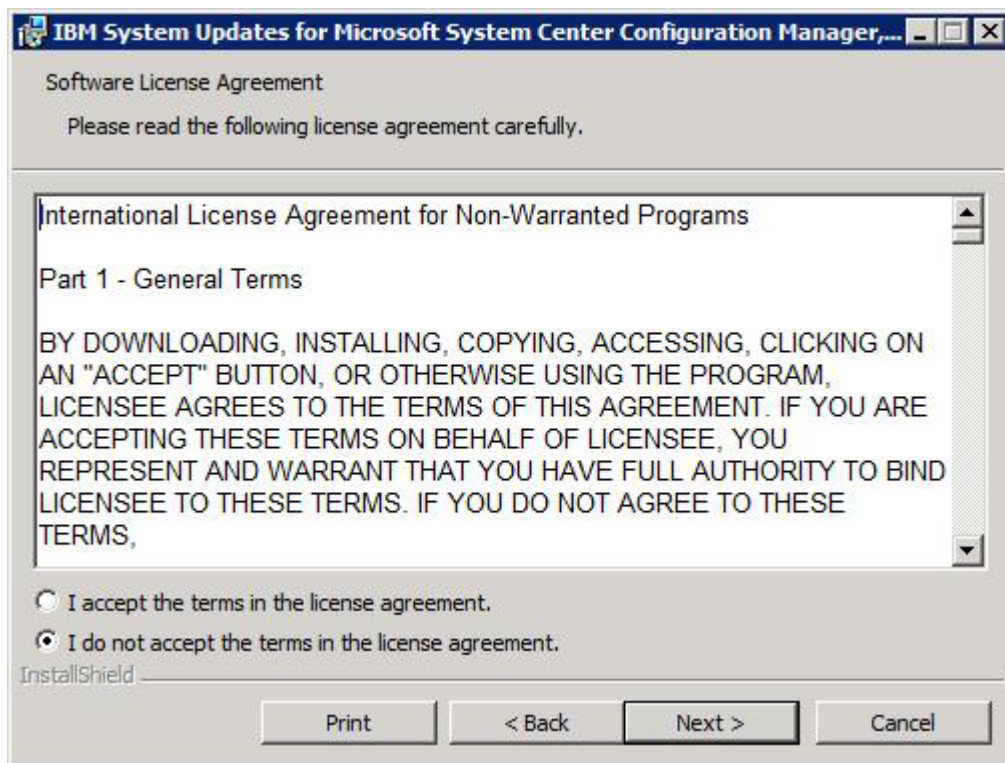
Figure 4. Software License agreement

6. On the Destination Folder page, click **Next** to except the default installation directory or click **Change** and enter a new location.
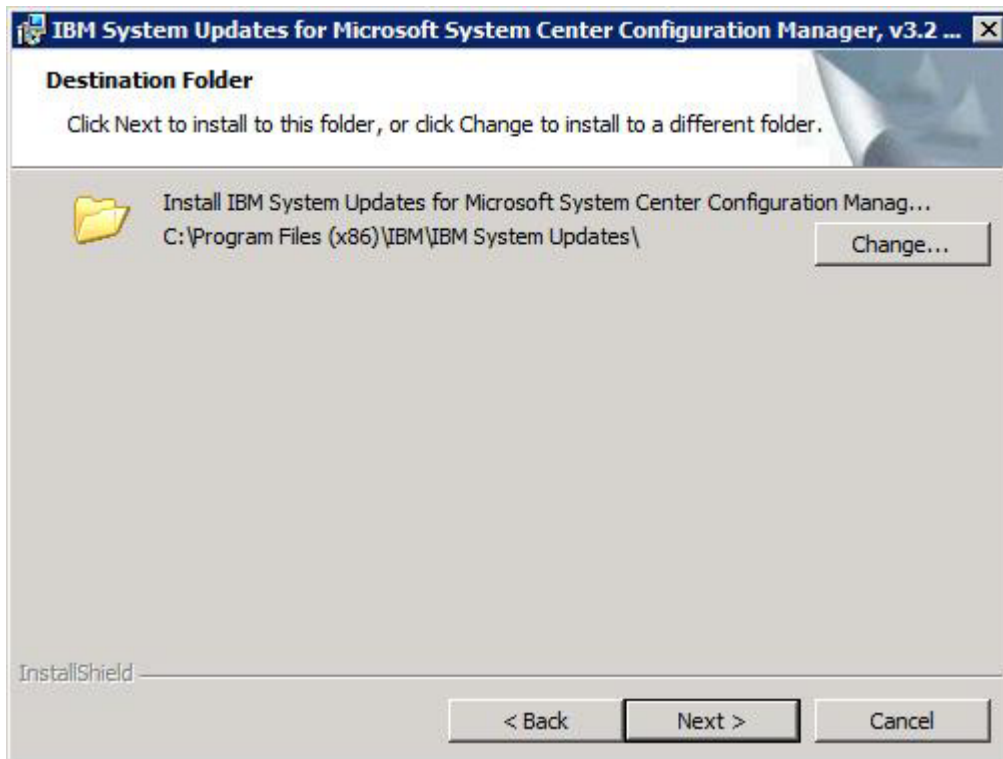
Figure 5. Destination folder
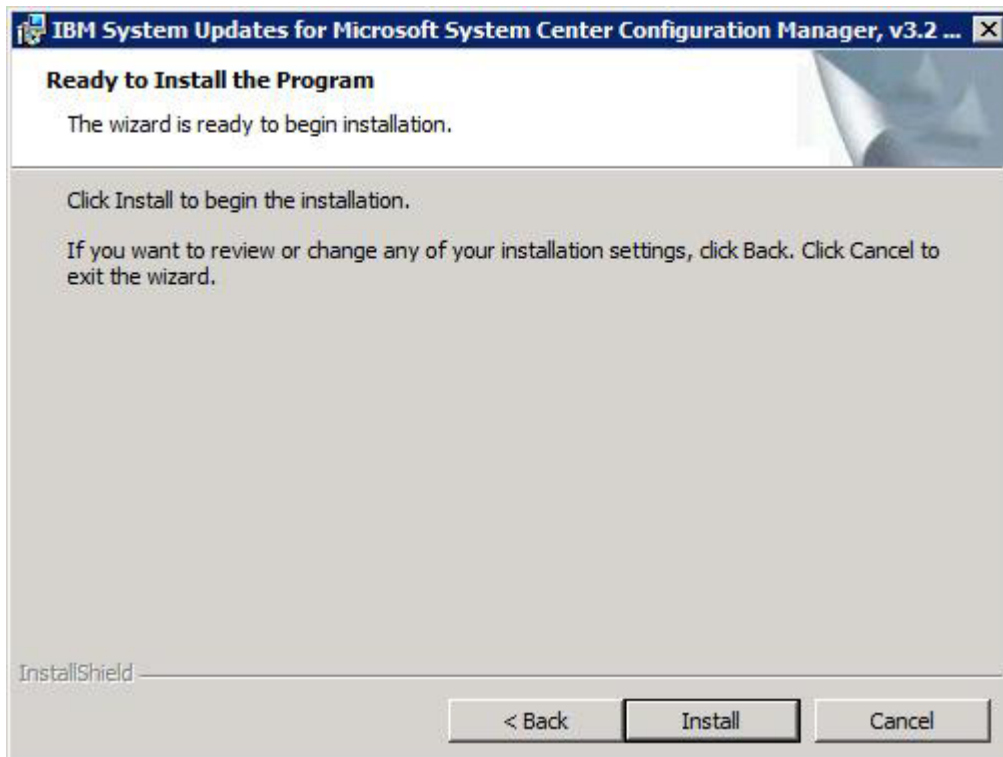
Figure 6. Ready to Install the Program

7. Click **Install** to start the installation.
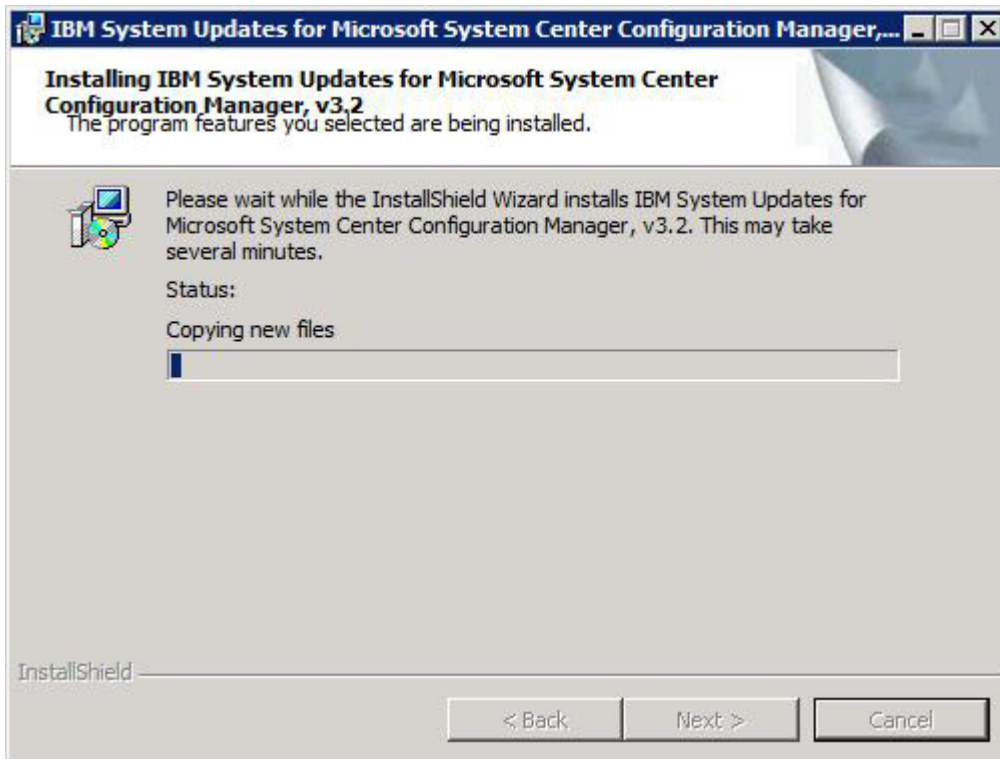
Figure 7. Installation progress

Note: During the installation, a command prompt window is also displayed. This command prompt window displays the extraction of the necessary installation files. Do not close the command prompt window. It may take some time to finish the installation. If any errors occur during installation, they will be displayed.
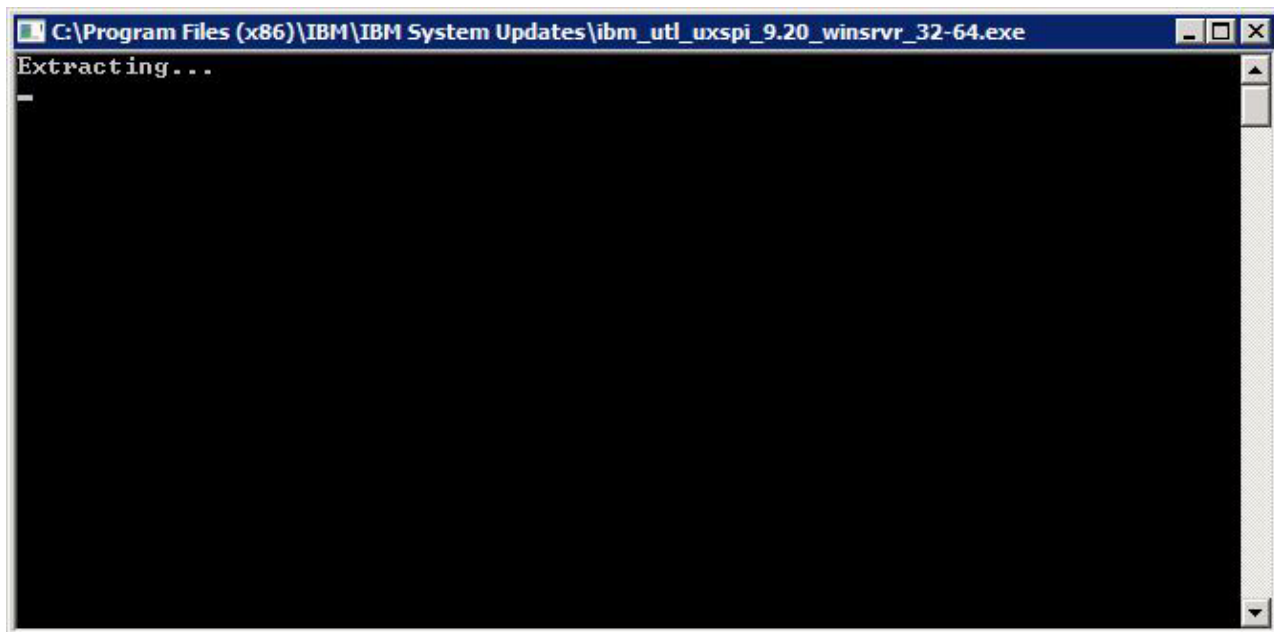
Figure 8. Extraction of Installation files

8. When the installation is complete, the InstallShield Wizard Completed page is displayed. Click **Finish** to complete the installation or click the checkbox to start the Setup wizard.

   Note: You can click the checkbox to Launch the Post Action of IBM System Updates for Microsoft System Center Configuration Manager 2007, v3.2 after the setup completes, to start the Setup wizard for IBM System Updates tool. You can also start the Setup Wizard from the Start Menu.
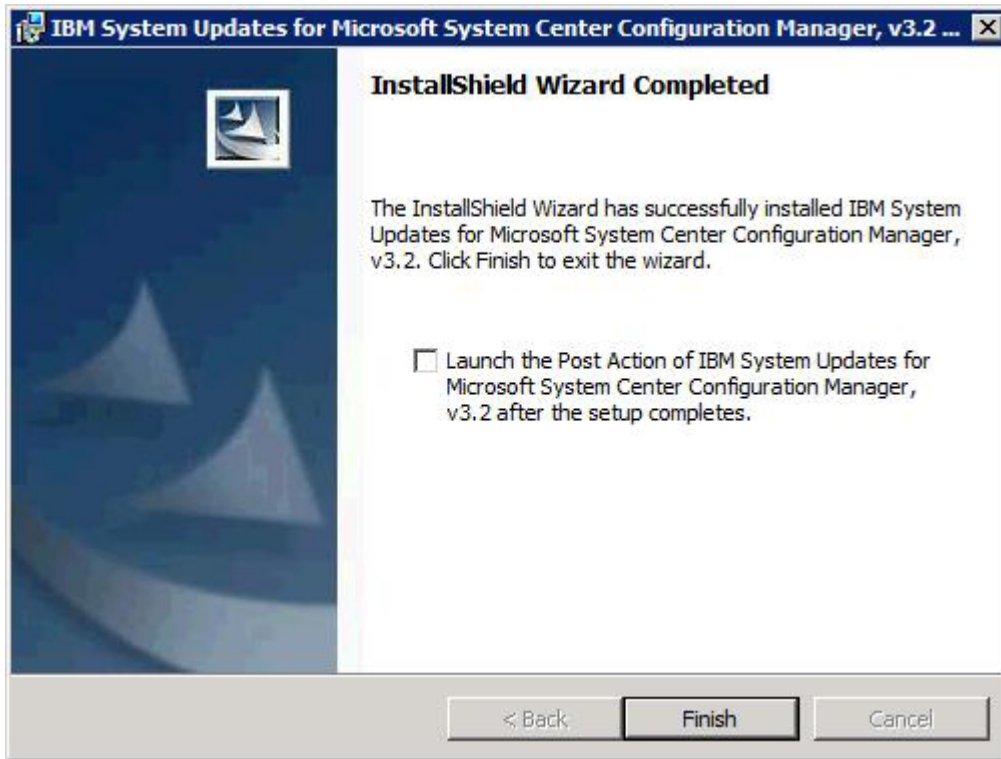
Figure 9. InstallShield Wizard Completed

Uninstalling the IBM System Updates tool

There are four methods for uninstalling theIBM System Updates for Microsoft System Center Configuration Manager, v3.2 tool.

Complete one of the following steps to uninstall IBM System Updates tool.

- Uninstall by using **Add or Remove Programs**. For the Windows Server 2008 operating system, you can use **Programs and features** to uninstall.
- Select the **Remove** option for IBM System Updates for Microsoft System Center Configuration Manager, v3.2 Installer (.exe file).
- Select the **Remove** option using IBM Integrated Installer (.exe file).
- Select **Uninstall** from the Start menu.

Note: The log files, temp folders, and the UXSPi upgrade files are not deleted during the uninstallation process. You must delete them manually.

Chapter 3. Working with IBM System Updates and System Center Configuration Manager 2007

The topics in this section describe how IBM System Updates and Microsoft System Center Configuration Manager 2007 work together.

IBM System Updates Acquisition and Publishing Tool, Version 3.2

IBM System Updates Acquisition and Publishing (SUAP) tool is the core component in IBM System Updates for Microsoft System Center Configuration Manager, v3.2. This tool provides the functions to acquire updates from the IBM website and publish the updates to the Windows Server Update Services server.

IBM System Updates 3.2 allows you to easily configure settings, maintain a machine list, and manage updates for your specific machine types.

The navigation tree on the left pane consists of following three views:
- Home
- All Updates
- My Machines

The Home view

The Home view provides three steps to guide you in getting started with IBM System Updates.
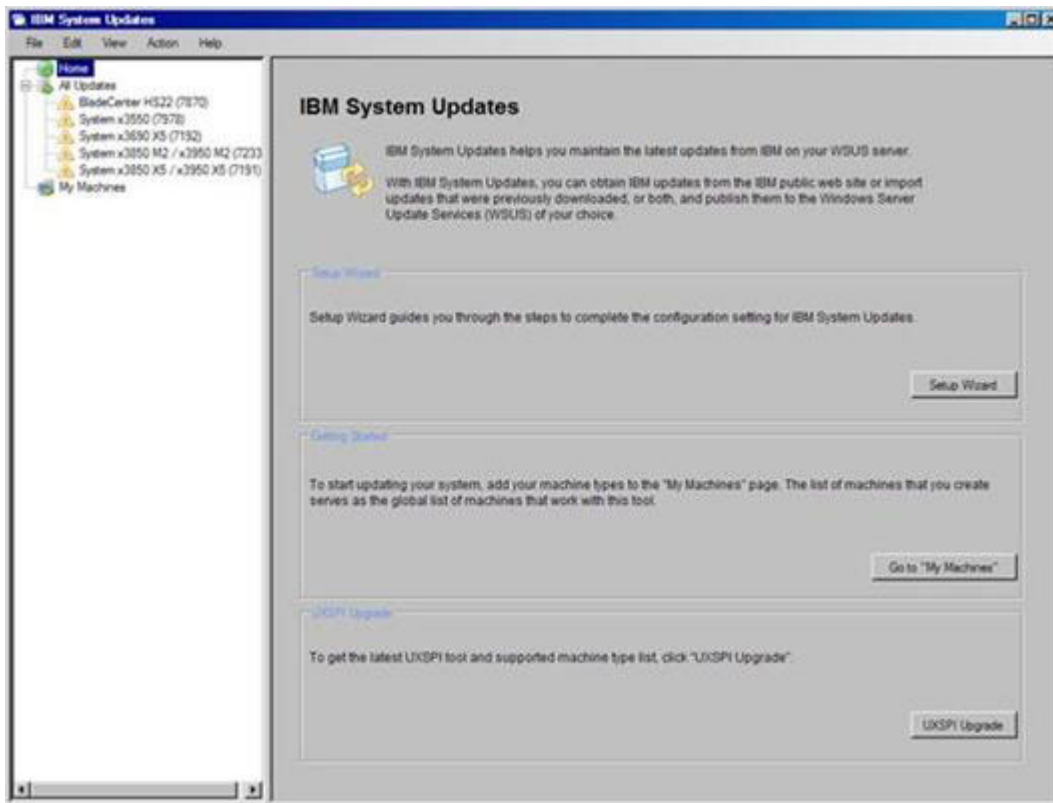
Figure 10. Home view

Setup Wizard

The Setup Wizard guides you through the steps to complete the configuration settings for IBM System Updates.

After you complete the set up for these configuration settings, you can view and edit them. Select **IBM SUAP tool Menu** > **Edit** > **Preferences** or **Setup Wizard**.

Windows Server Update Services server configuration:

This section describes how to configure Windows Server Update Services server. Windows Server Update Services server is used for publishing. Administrative rights are required on the Windows Server Update Services server to successfully publish updates.

Procedure

Select one of the update server options:
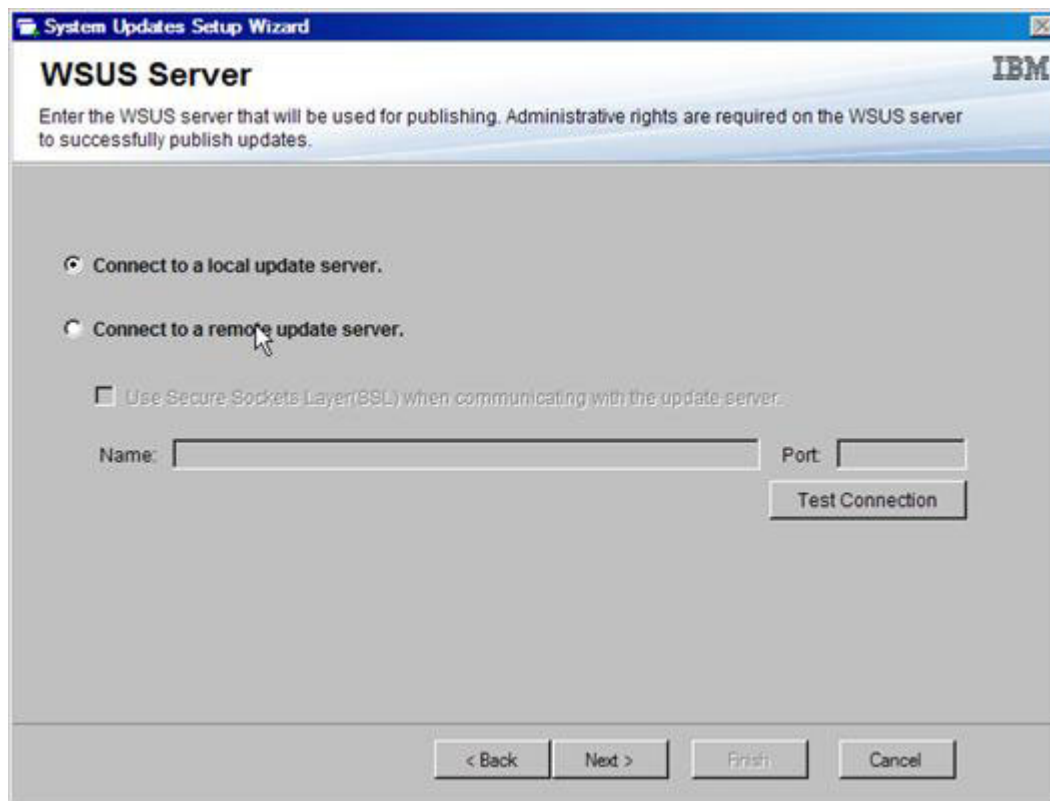
Figure 11. System Updates Setup Wizard for the WSUS Server

1. Click **Connect to a local update server** to use the same server for Windows Server Update Services that the IBM System Updates are installed on.

2. Click **Connect to a remote update server** to publish the updates to the Windows Server Update Services server through the network.

Note: If the remote update server is selected, you will also need to specify the name of the Windows Server Update Services update server and the port used to connect the server. The name of the Windows Server Update Services update server can be the hostname or the IP address.
By selecting this option, the Secure Sockets Layer can be used by selecting the **Use Sockets Layer (SSL)** check box. For more information on Secure Sockets Layer, see "Using Secure Sockets Layer for Windows Server Update Services server (Optional)" on page 16.

Using Secure Sockets Layer for Windows Server Update Services server (Optional):

The IBM System Updates tool supports publishing updates to Windows Server Update Services server using Secure Sockets Layer (SSL). SSL can secure the connection and encrypt the data transferred between the IBM System Updates tool and the Windows Server Update Services server.

Procedure

1. If you selected SSL for the remote WSUS server, complete the following steps to configure the environment.

   For more information on how to configure SSL on the Windows Server Update Services server, see the "Using SSL with WSUS" section in the Windows Server Update Services help document. Also refer to the "Secure Sockets Layer" section in the IIS help document. These two help documents are installed with the Windows Server Update Services tool and the IIS tool.

   Complete the following steps for using the Secure Sockets Layer: Add the SSL certificate file to your IBM System Updates computer. Import the SSL certificate to the locations: **Trusted Publishers** and **Trusted Root Certification Authorities**.

2. Enable the **SSL support for this WSUS server** in the IBM SUAP tool publish wizard.

   Note: The Windows Server Update Services server name must be the same as the Issued to name in the SSL certificate.

   a. Connect to the local server the same way you connect to a remote server.

   b. Enable **SSL support** in SCCM console.

   c. Select one of the following:
      - For Microsoft System Center Configuration Manager 2007, launch SCCM console, and select **Site Management** > **%Site Name%** > **Site Settings** > **Component Configuration**.
      - For Microsoft System Center Configuration Manager 2012, launch SCCM console, and select **Administration** > **Site Configuration** > **Sites** > **%Site Name%** > **Configure Site Components**.

      .

   d. Open **Software Update Point Component** and enable SSL support.
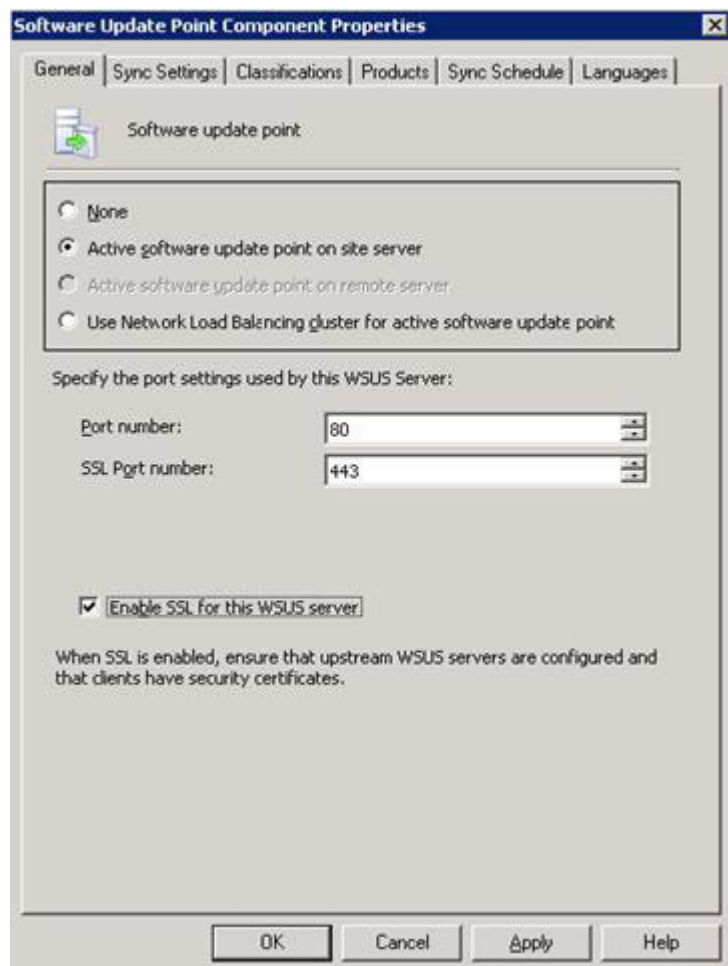
Figure 12. Software Update Point Component Properties (SCCM 2007)
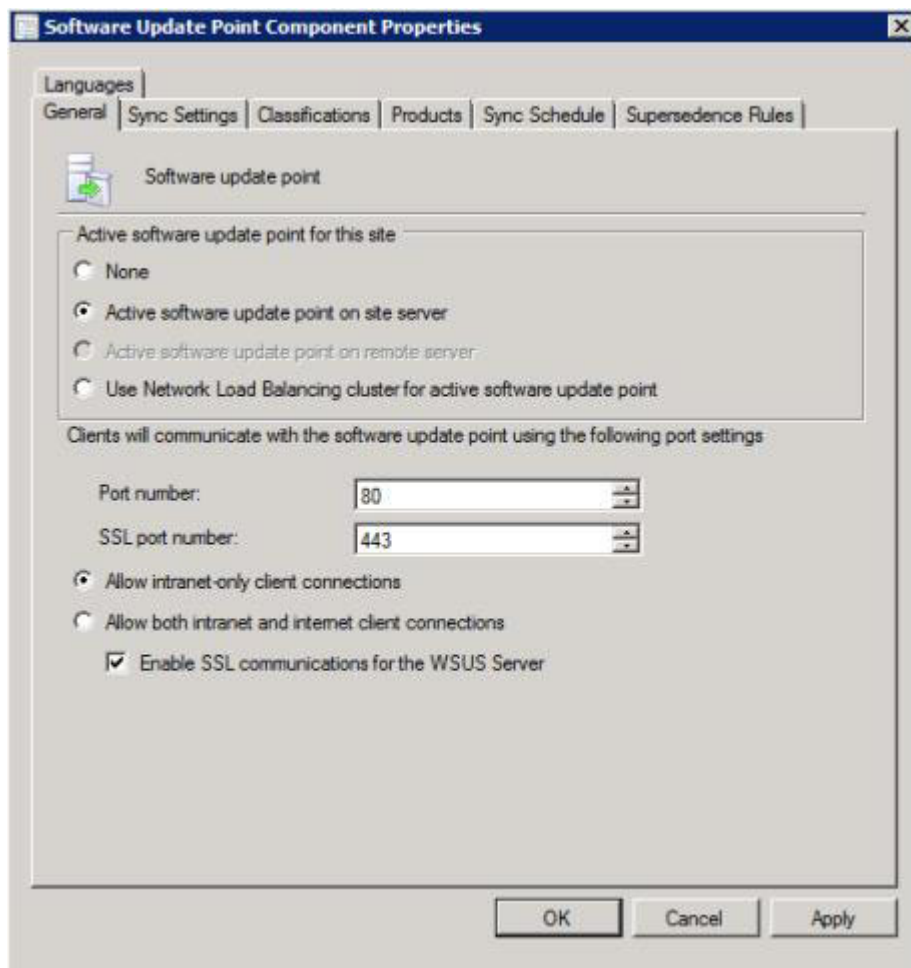
Figure 13. Software Update Point Component Properties (SCCM 2012)

3. Add the SSL certificate file to your client computer.
4. Import the SSL certificate to the locations **Trusted Publishers and Trusted Root Certification Authorities**.

Windows Server Update Services server certificate configuration:

This section describes how to configure a digital certificate Windows Server Update Services server.
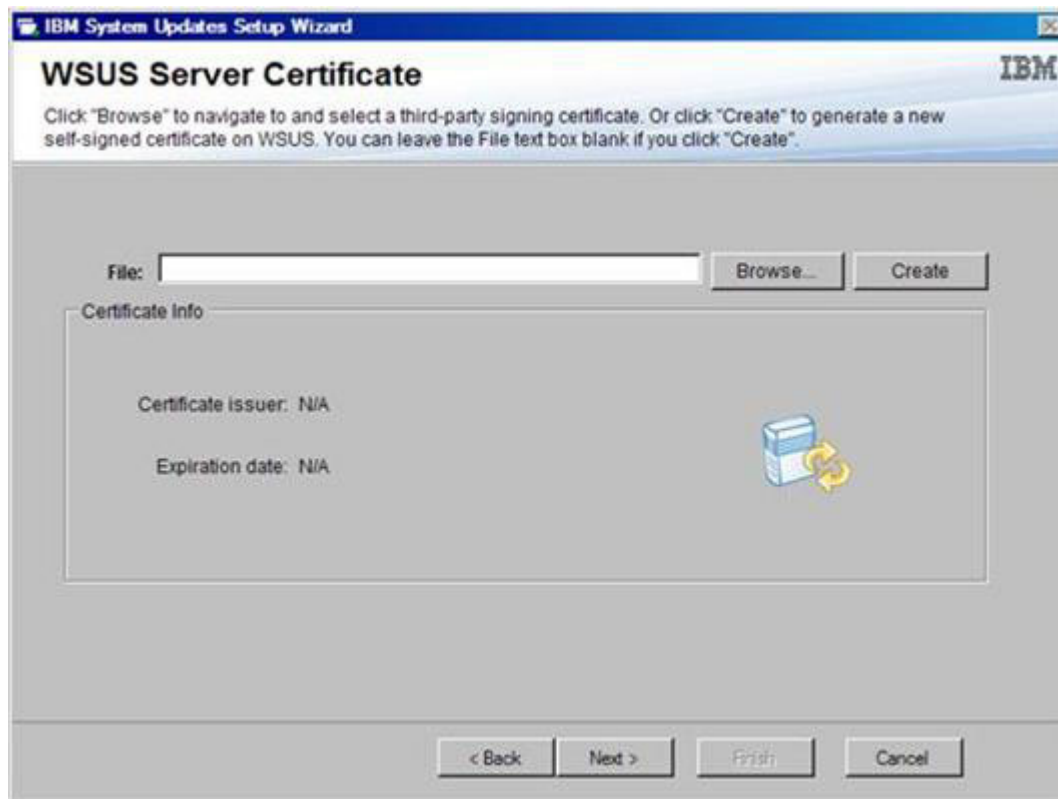
Figure 14. WSUS Server Certificate

On the Windows Server Update Services Server Certificate page, you can configure a digital certificate for the Windows Server Update Services server. Click **Browse** to navigate to a third-party certificate or click **Create**, and then click **Next**.

A digital certificate is used to sign the updates. The certificate must be copied to the appropriate certificate folders on the update server (SCCM server), before the IBM updates can be published to the SCCM server. The certificate must also be copied to the IBM System Updates computer to ensure that it is the same as the copy on the update server.

If there is no certificate on the Windows Server Update Services server, the IBM System Updates tool prompts you to generate a self-signed certificate on the Windows Server Update Services server.

Note: The IBM System Updates tool also supports importing a third-party certificate.

Adding certificates:

The following procedure describes how to add certificates to the appropriate certificate folders.

Procedure

1. Click **Start**, click **Run**, and type **MMC** in the window, and then click **OK** to open the Microsoft Management Console (MMC).
2. To add a certificate, click **File**, click **Add/Remove Snap-in**, click **Add**, click **Certificates**, click **Add**, select **Computer account**, and then click **Next**.
3. To select **Another** computer, enter the **name of the update server** or click **Browse** to find the update server computer, click **Finish**, click **Close**, and then click **OK**. If the update server is on the same server, select **Local computer** in this window.
4. Expand **Certificates** (update server name), expand **WSUS**, and then click **Certificates**.
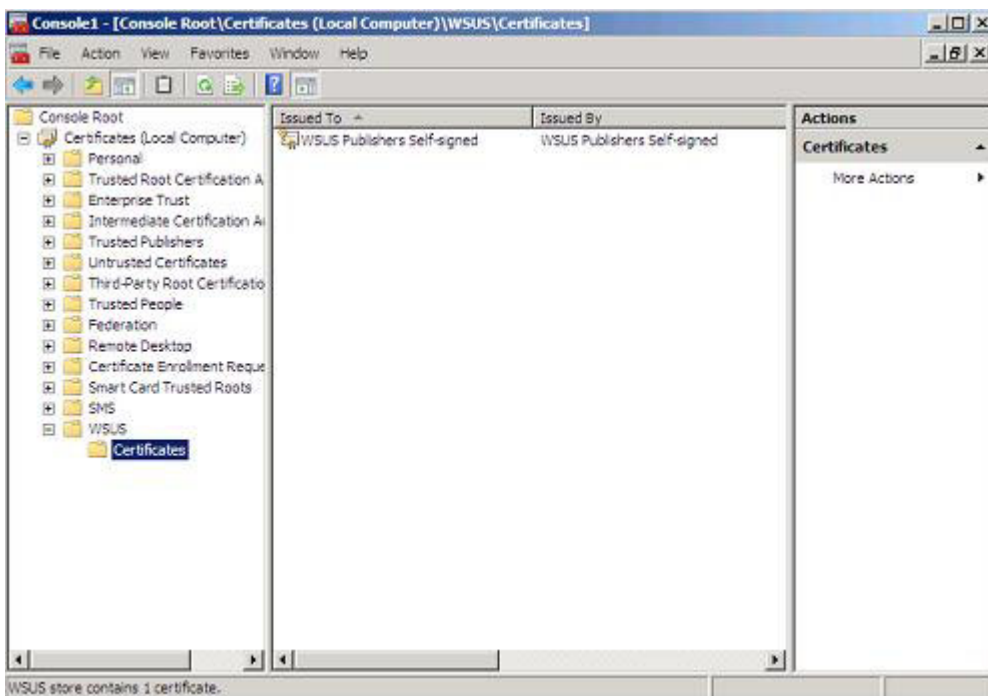
Figure 15. Console 1 - WSUS Certificates

5. In the middle pane, right-click the **certificate**, click **All Tasks**, and then click **Export**.
6. In the Certificate Export Wizard, use the default settings to create an export file with the name and location specified in the wizard. This file must be available to the update server before proceeding to the next step.

7. Right-click **Trusted Publishers**, click **All Tasks**, and then click **Import**. Complete the Certificate Import Wizard using the exported file from step 6.

8. If a self-signed certificate is being used, such as WSUS Publishers Self-signed, right-click **Trusted Root Certification Authorities,** click **All Tasks**, and then click **Import**. Complete the Certificate Import Wizard using the exported file from step 6.

9. If the Updates Publisher computer is a remote computer to the update server, repeat steps 7 and 8 to import the certificate to the certificate folder on the Updates Publisher computer.

   On client computers, the Windows Update Agent (WUA) scans for updates. Installation action l will fail if it cannot locate the digital certificate in the Trusted Publishers folder on the local computer. If a self-signed certificate was used when publishing the updates catalog, such as WSUS Publishers Self-signed, the certificate must also be in the **Trusted Root Certification Authorities certificate** folder on the local computer to verify the validity of the certificate.

Configuring certificates:

This topic describes how to configure certificates.

About this task

There are two methods for configuring certificates on client computers. Use one of the following procedures to configure the signing certificate on client computers:

- **Using Group Policy and the Certificate Import Wizard**: To use this option, perform the steps described in "Adding certificates" on page 20.
- **Using the certutil utility and software distribution**: To use this option, perform the steps in the following procedure.

Procedure

1. Click **Start**, click **Run**, type **MMC** in the text box, and then click **OK** to open the Microsoft Management Console (MMC).

2. Click **File**, click **Add/Remove Snap-in**. Click **Add**, click **Certificates**, click **Add**, select **Computer account**, and then click **Next**.

3. Select **Another** computer, type the **name of the update server** or click **Browse** to find the update server computer. Click **Finish**, click **Close**, and then click **OK**. If the update server is on the same server, you can also select **Local computer** in this window.

4. Expand **Certificates** (update server name), expand **WSUS**, and then click **Certificates**.

5. Right-click the **certificate** in the results pane, click **All Tasks**, and then click **Export**. Complete the Certificate Export Wizard steps using the default settings to create an export certificate file with the name and location specified in the wizard.

6. Use one of the following methods to add the certificate used to sign the updates catalog to each client computer that will use Windows Update Agent to scan for the updates in the catalog. Add the certificate on the client computer as follows:

- **For self-signed certificates**: Add the certificate to the **Trusted Root Certification Authorities** and **Trusted Publishers certificate** folders.
- **For certification authority (CA) issued certificates**: Add the certificate to the **Trusted Publishers certificate** folder.

Note: Windows Update Agent verifies whether the Group Policy setting is enabled on the local computer. This policy setting must be enabled for Windows Update Agent to scan for the updates that were created and published with Updates Publisher. For more information, see TechNet: Updates Publisher

Outbound Connectivity configuration:

This topic describes how to configure outbound connectivity.

About this task

There are three options for configuring outbound connectivity, which are shown in the figure below.

Procedure

1. Click to select one of the following options and then click **Next**.

- **The local machine can access the Internet directly**: No additional network configuration is required.
- **The local machine requires a proxy server to access the Internet**: You can set a HTTP Proxy to help IBM System Updates connect to the Internet.
- **The local machine does not have access to the Internet**.
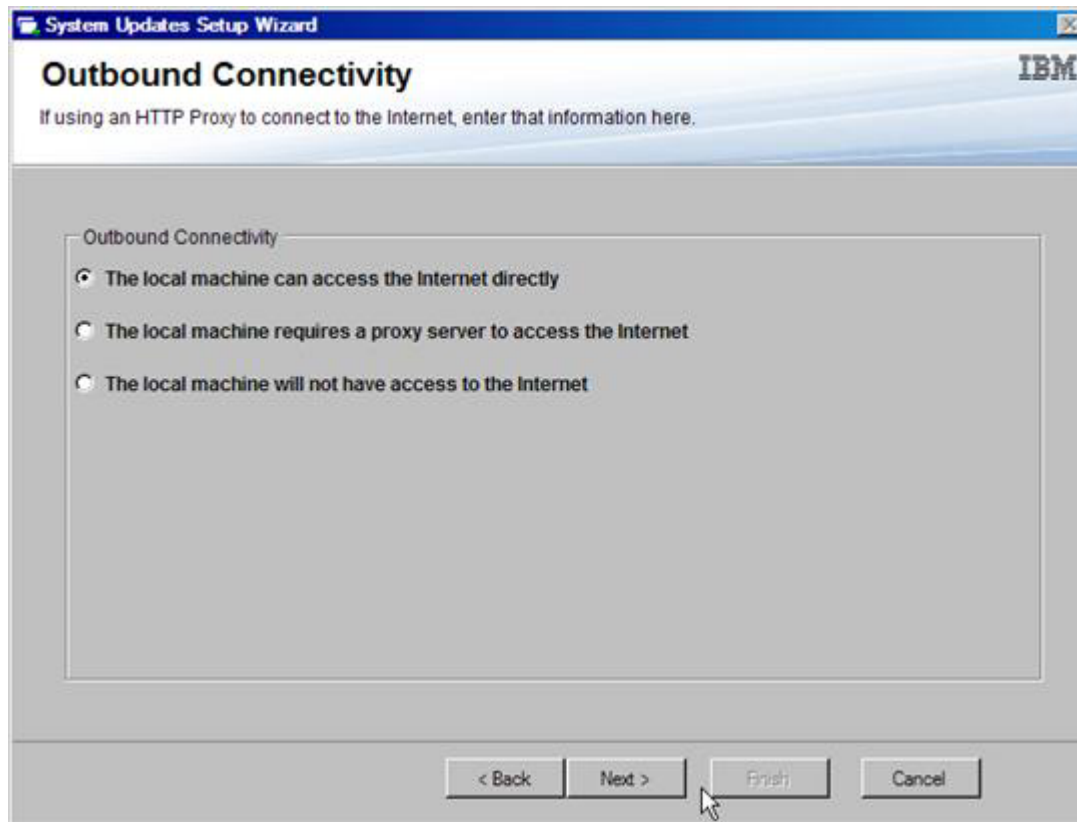
Figure 16. Outbound Connectivity

2. If you selected the first option, the Local Repository page is displayed.
3. If you selected the second option for the local machine, this requires a proxy server to access the internet. Enter the **Host** and **Port** information as shown in the figure below.

   Note: Internet connectivity is required for obtaining the latest updates from the IBM website. If you have not chosen automatic updates, you will need to manually put the updates into the local repository.
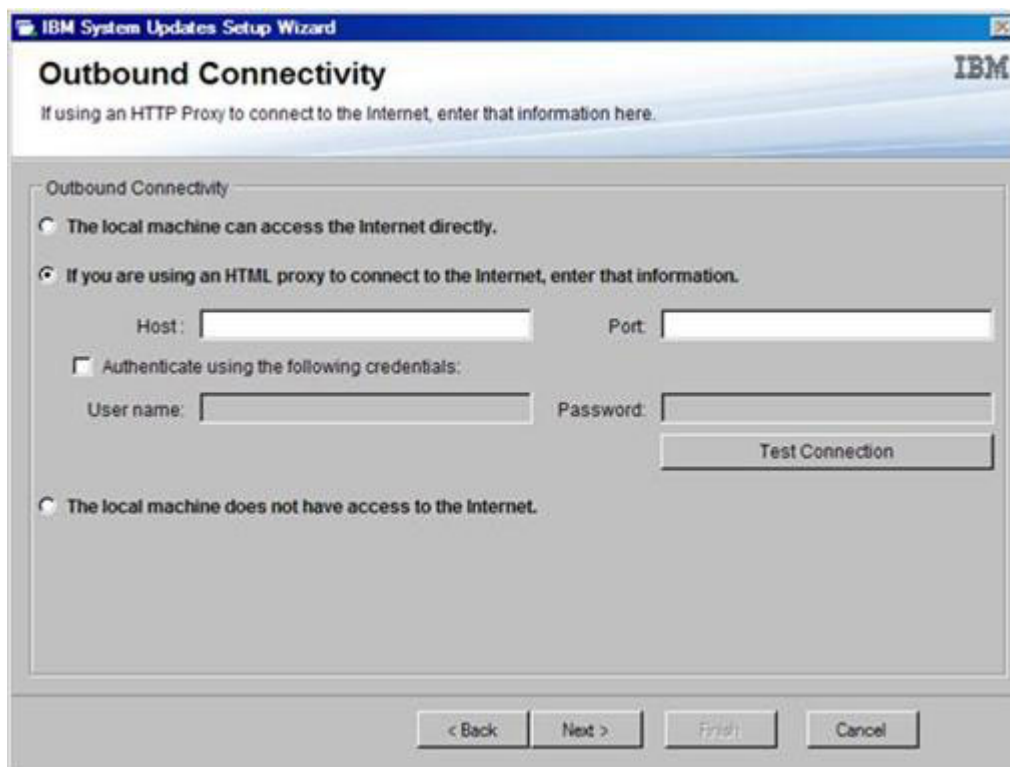
Figure 17. HTTP Proxy

Local Repository configuration:

This topic describes how to configure the Local Repository for updates.

Procedure

1. To select the default location for the local repository, click **Next**.
2. To enter another location for the local repository, **Browse** to the folder location, and click **Next**.
3. Click **Confirm** to proceed to the next page or **Back** to modify the settings.
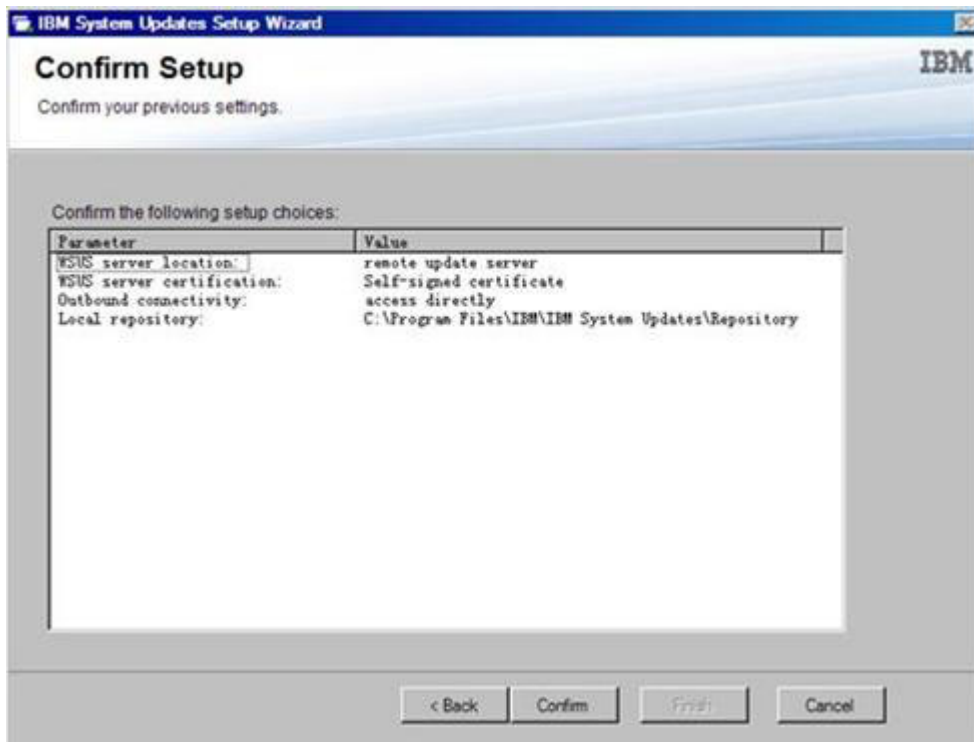
Figure 18. Confirm Setup

4. Click **Finish** to complete the Setup Wizard.
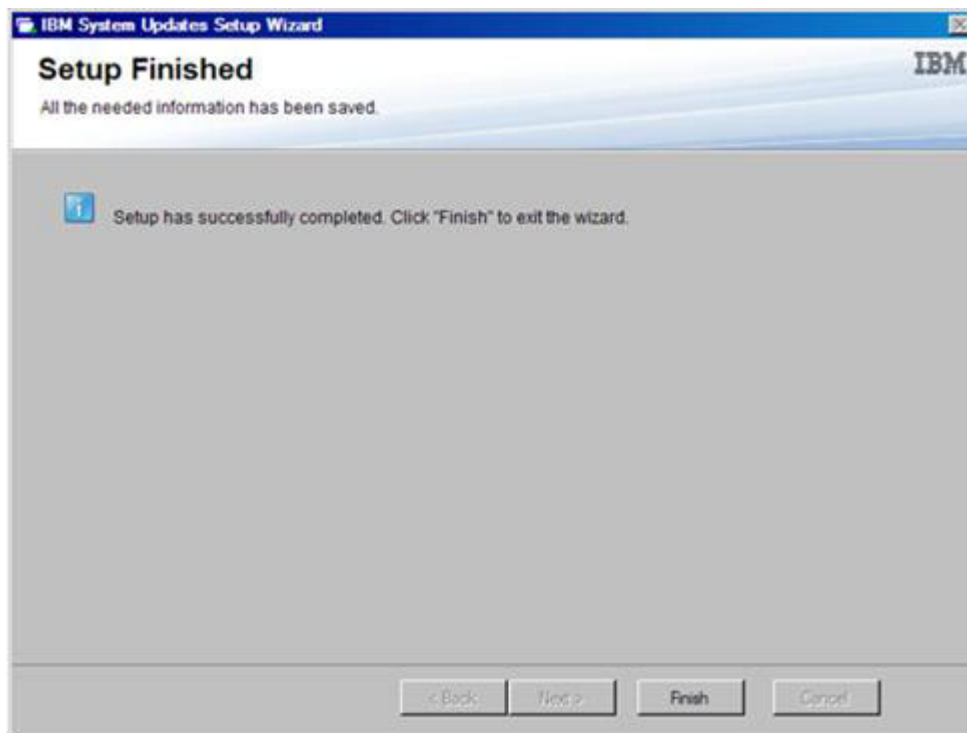
Figure 19. Setup Wizard Finished
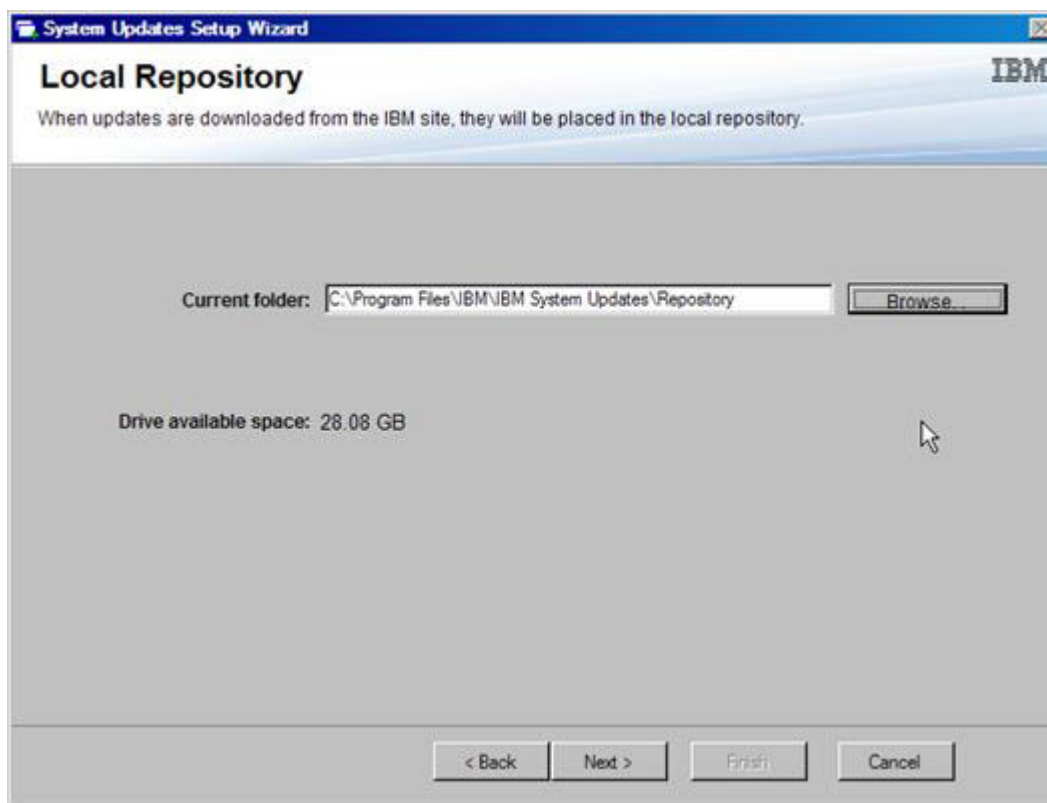
Figure 20. Local Repository

Go to My machines

Before you can begin updating your computers, you need to add your machine types from the list of Supported Machine Types.

About this task

There are two methods of viewing your machine types. Complete one of the following steps:

Procedure

1. Click **Go to My Machines** button on the Home View.
2. Click **My Machines** view on the left pane to quickly navigate to the My Machines view. For more information, see "My Machines view" on page 51.

UpdateXpress System Package Installer upgrade

The UpdateXpress System Package Installer (UXSPi) upgrade provides automated updates for new IBM System x and Blade servers without upgrading the IBM System Updates Acquisition and Publishing. This function is bundled with the IBM System Enablement Pack. The UXSPi upgrade will get the latest UXSPi tool and the latest supported server list and System Enablement Packs necessary to support the new servers from IBM website.

About this task

The UXSPi upgrade requires an internet connection. Perform the following procedure to complete the UXSPi upgrade:

Procedure

1. Click the **UXSPI Upgrade** button on the Home View or on the IBM System Updates Acquisition and Publishing tool menu. Click **Action** and then click **Upgrade UXSPi and Check Latest Machines**, as shown in following figure.
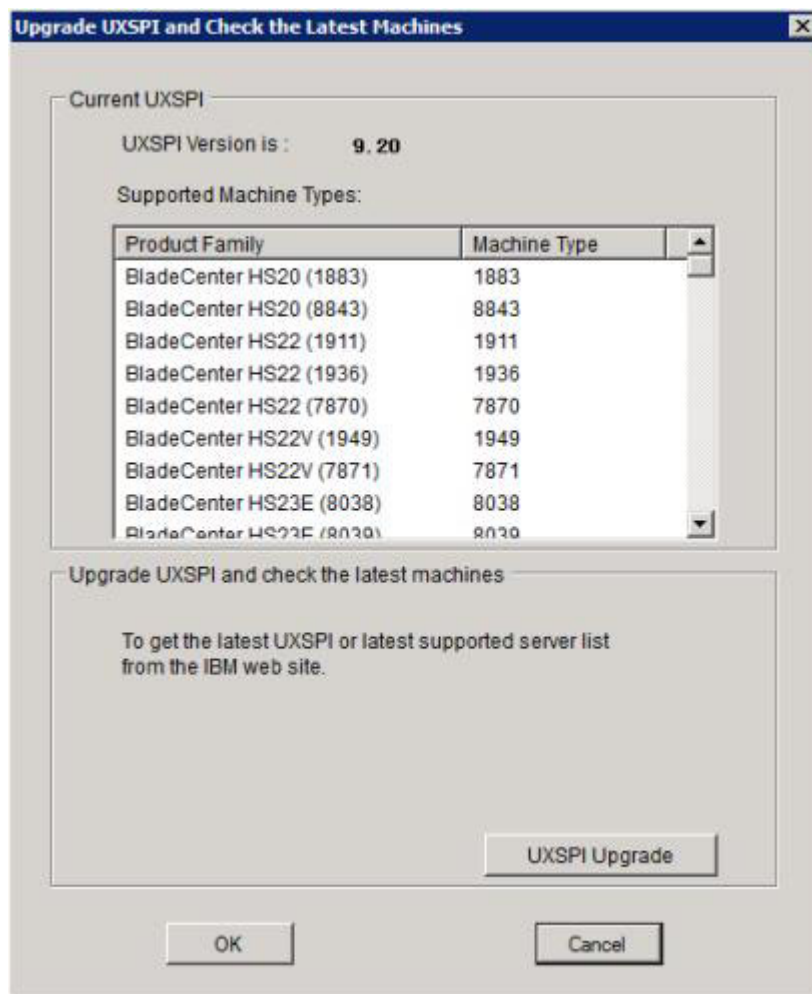
Figure 21. Upgrade UXSPI and check for the latest machine list

2. Click the **UXSPI Upgrade** button. The following UXSPi self upgrade window is displayed.
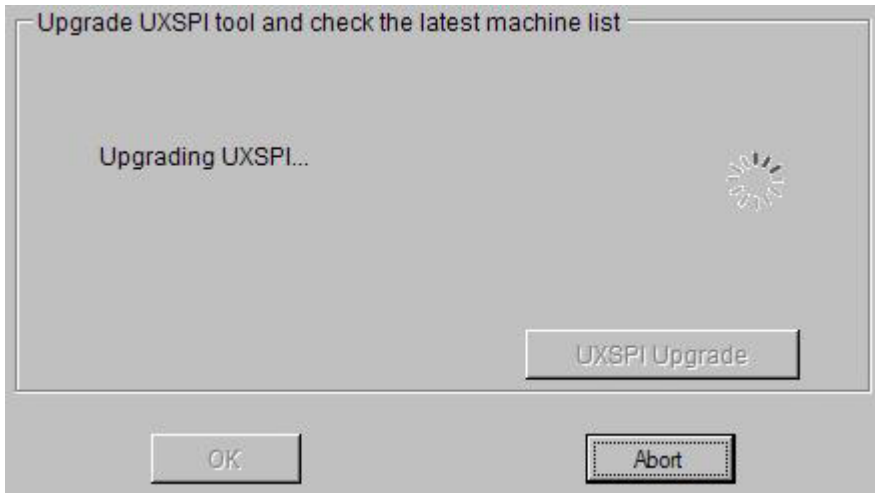
Figure 22. Upgrade UXSPI tool progress window

> **Note:** The UXSPi upgrade will take some time and is dependent on the network speed.
>
> After successfully upgrading, the new UXSPi version will be shown on the **Upgrade UXSPI and check the latest machine list**. The list of supported IBM System x servers will be updated to include the latest available servers on the IBM website.

Using the All Updates View

The All Updates view provides a list of current machines in the left panel. In the right panel for each machine type, updates, detailed information, and all the related actions are displayed.

About this task

Perform the steps in the following procedure to use the All Updates view.

Procedure

1. Expand **All Updates** to view the status of updates for each machine name.

   The figure shown below provides an example of three machine types listed under All Updates.
   - BladeCenter HS22 does not have any updates
   - BladeCenter HX5 does not have any updates
   - System x3550 has an update

Figure 23. All Updates view with an example of no updates

2. To view the details related for a specific machine, click the **machine name**. The right panel will display updates information. If there are no updates in the right panel, a message is displayed indicating: "There is no update for this machine. You can check updates from IBM site or Windows Server Update Services server, or import them from a local folder/location."

3. Click **Actions** to start the process.
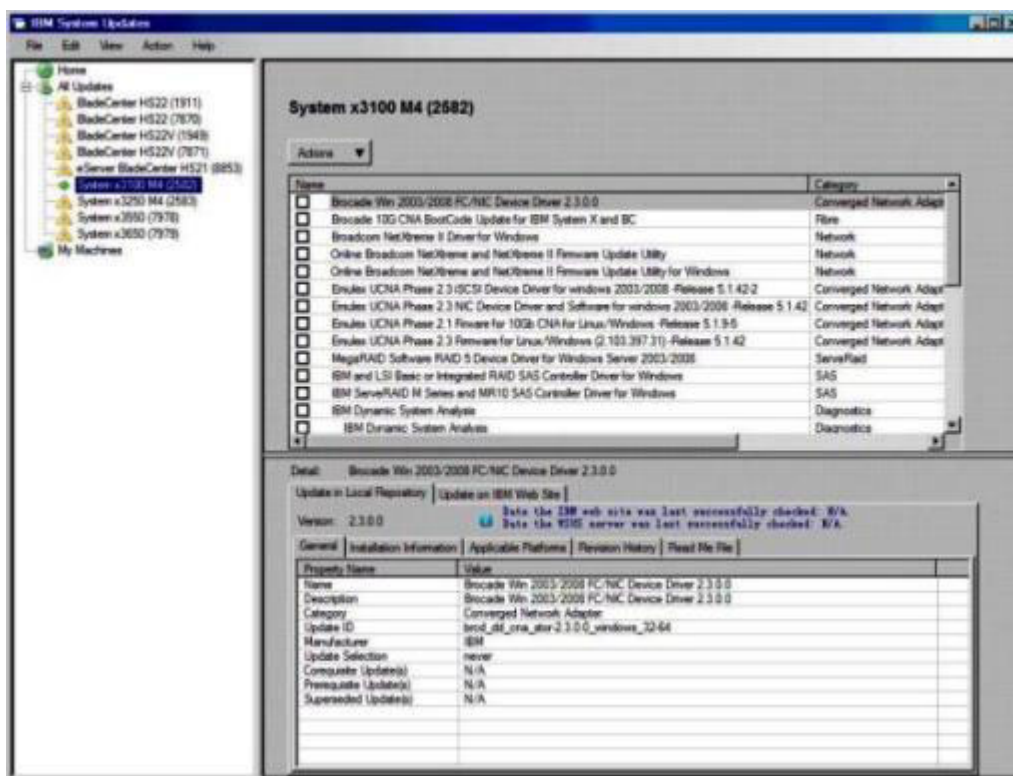
Figure 24. All Updates view with an example of an update for System x3100 M4

If there are updates, the right panel displays a list of available updates.

4. Click to select any of these updates and view the detail window displayed in the bottom right panel.

   The following information is provided:

   - version number
   - last time successfully checked the IBM website and server
   - specific information about the update

Reload local updates

This topic describes how to reload local updates.

If you downloaded the updates from the IBM website or imported the updates to the same repository path before, you can reload them into the IBM System Updates Acquisition and Publishing tool.

Click the **Actions** drop-down menu, then select **Reload local updates**.

Import updates from local

If you downloaded the updates from IBM website and saved them into a local directory or a shared network location, you can import them into IBM System Updates Acquisition and Publishing tool using the Import Wizard.

Important: Each update contains two files: a binary file (.exe) and a metadata file (.xml). Both files are required or the update cannot be accepted by the IBM System Updates Acquisition and Publishing tool.

Each IBM System Enablement Pack (SEP) contains two files: a ZIP file (.zip) and a metadata file (.xml). Both files are required or the update cannot be accepted by the IBM System Updates Acquisition and Publishing tool.

Attention: If the update package downloaded from IBM website is in a zip file, extract the update package first. The IBM System Updates Acquisition and Publishing tool does not process zip files.

Import Wizard:

The Import Wizard imports updates from a local directory or a shared network location.

About this task

The updates are available as individual updates, Sequence Packages, or as UpdateXpress System Packs.

Procedure

1. Click the **machine name** on the left panel. Click the **Actions** drop-down menu and select **Import updates from local site** to start the Import Wizard. The Welcome page is displayed.
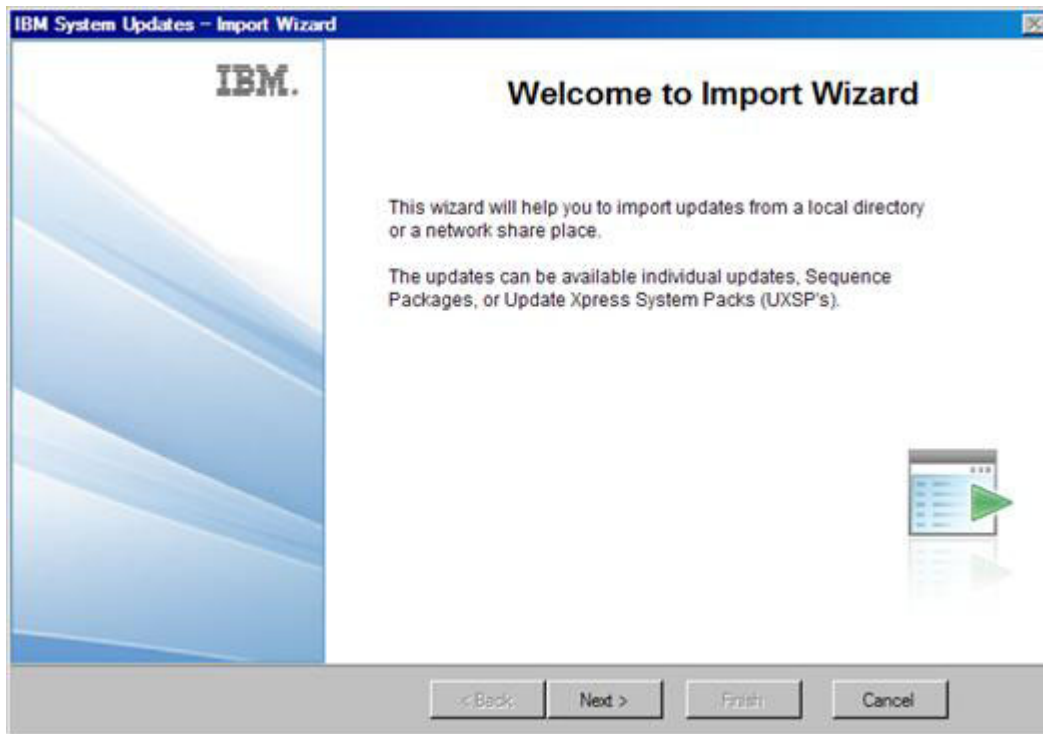
Figure 25. Import Wizard Welcome

> 2. Click **Next** to continue. The Select Updates Source page is displayed.
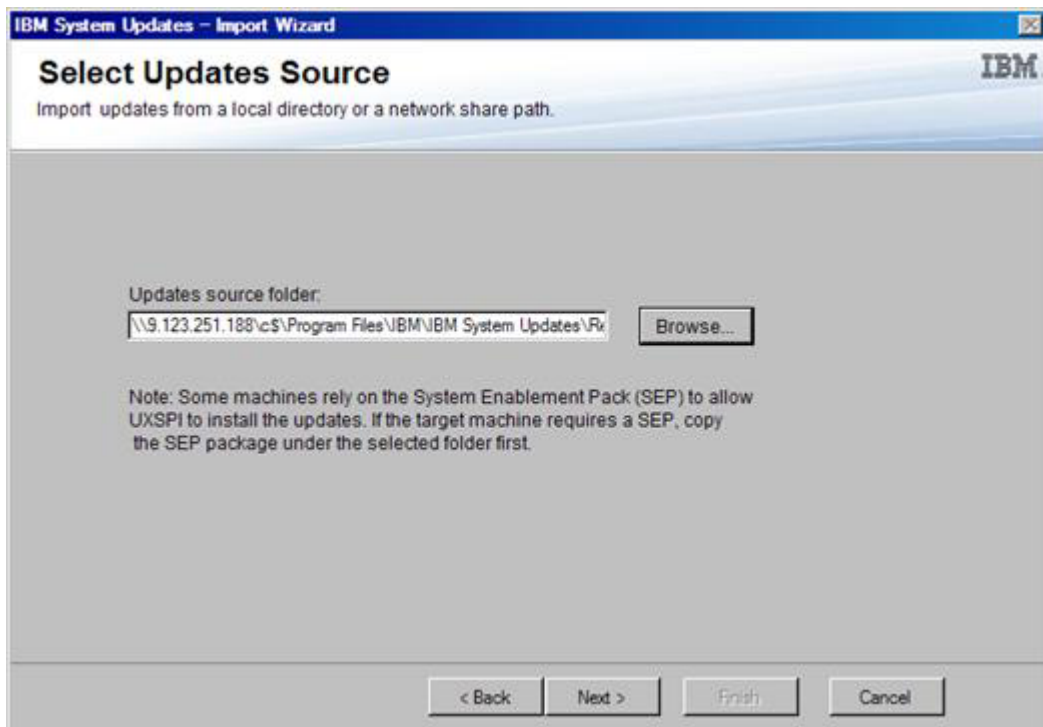
Figure 26. Select Source Updates

3. **Browse** to select the **source updates file**, and click **Next**.

> **Note:** The IBM System Updates Acquisition and Publishing tool imports the updates to the root path. To import these files, run the Import Wizard again and select the subfolder. The updates in any subfolders will not be imported. To import these files, run the Import Wizard again and select the subfolder.
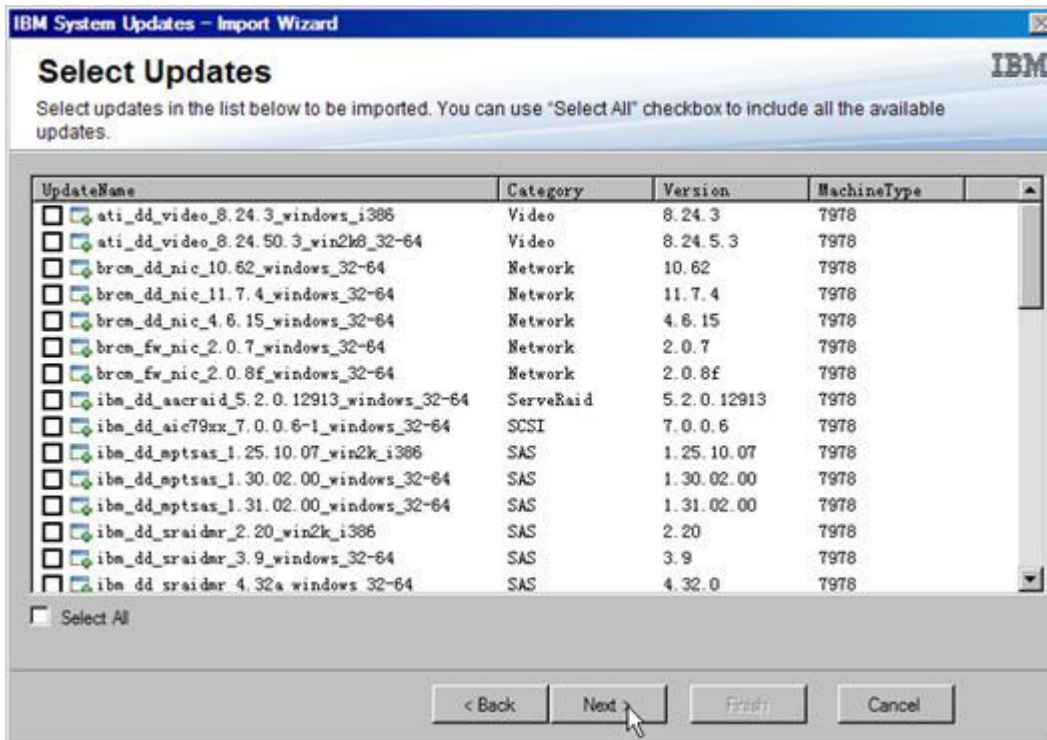
Figure 27. Select Updates

4. On the Select Updates page, click to select individual updates or select all the available updates, by clicking the **Select All** checkbox. Click **Next** to start importing the updates to the IBM System Updates Local Repository.
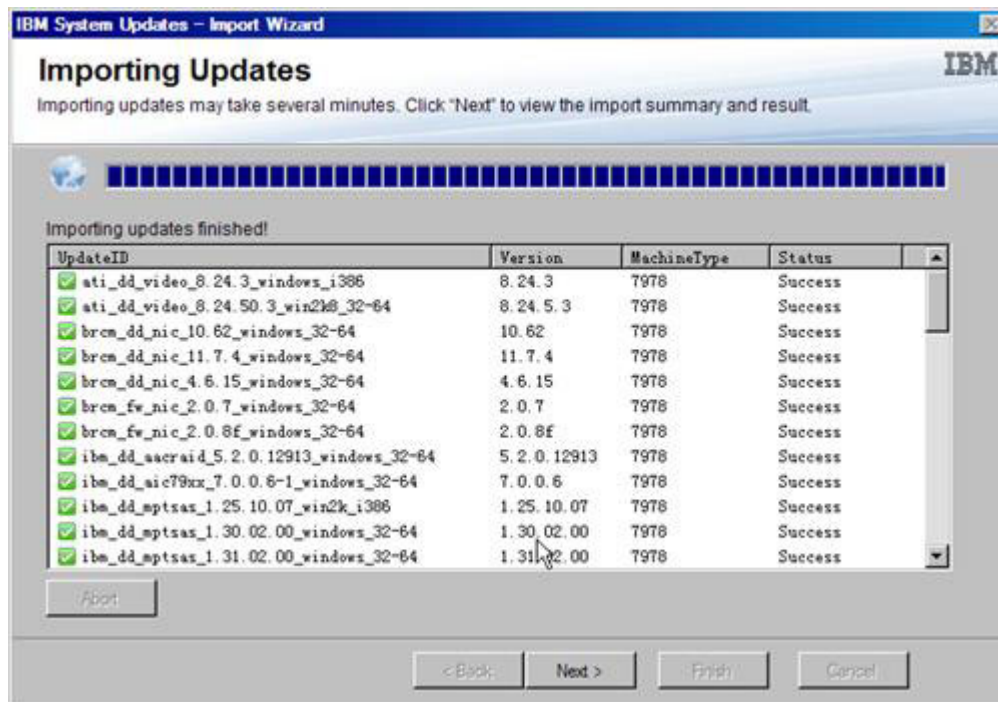
Figure 28. Importing Updates

5. After successfully importing the updates, click **Next** to view a summary of the imported updates.
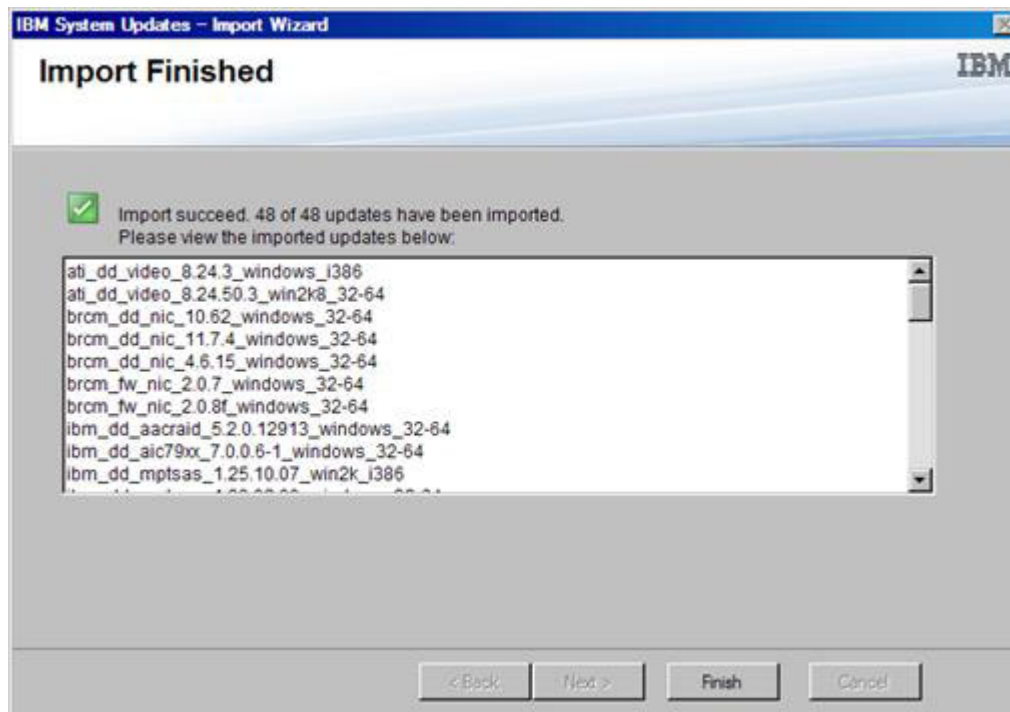
Figure 29. Import Finished

6. On the Import Finished page, the status of the import is displayed, indicating the number of updates were imported and provides a list of the updates. Click **Finish**.

Check all updates from the IBM website

This topic describe how to check all updates from the IBM website for a specific machine type.

About this task

You can check updates related to a specific machine type on the IBM website by using the **Actions** drop-down menu. This requires a network connection to the Internet and a license. You can use an HTTP Proxy to access the Internet or directly connect with the Internet.

There are two options for checking updates from the IBM website. Perform one of the following steps to start the checking process:

Procedure

1. Click the **machine name** from the left panel. Click the **Actions** drop-down menu and select **Check all updates from IBM site**. This action checks all updates related to the special machine type on the IBM website.
2. Click the **machine name** from the left panel, if there are any updates listed in the right panel, and then click to select one or more these updates from the updates from the list view. Click the **Actions** drop-down menu and select **Check selected updates from IBM**. This action checks only selected updates related to the special machine type on the IBM website. Press **Ctrl or Shift** to select multiple updates.
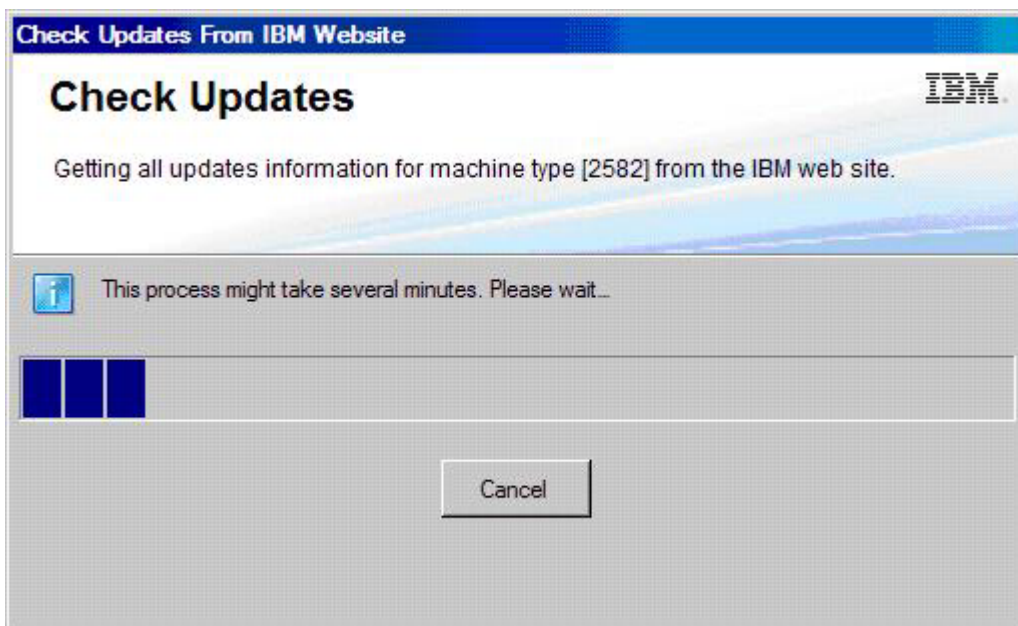
Figure 30. Check Updates from IBM website

This process may take several minutes to finish. After Check Updates has finished, the Version on IBM site column is updated and the detailed information about the update is provided. If the version on the IBM site is higher than the version in the local, there will be a blue icon beside the update

name and a warning message indicating the lower version.
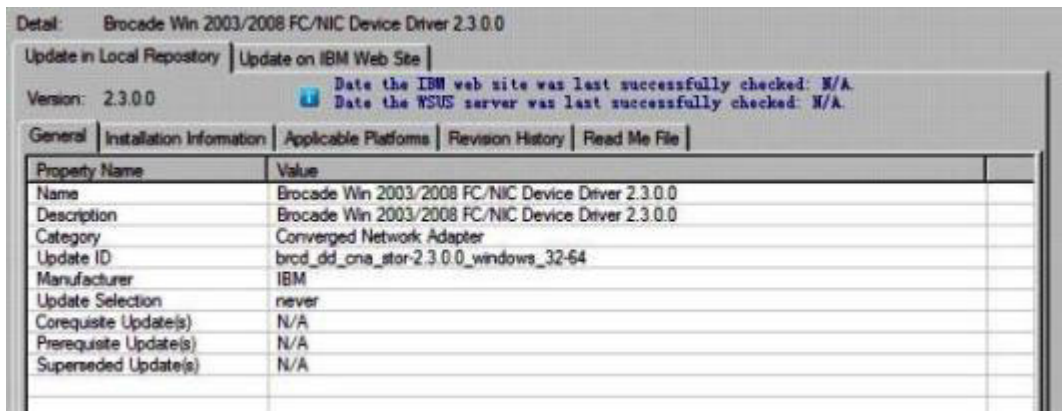
Figure 31. Updates view with the General tab detail information

The General tab provides a list of the following properties as shown in the bottom right panel of the Updates view:

- Name
- Description
- Category
- Update ID
- Manufacturer
- Update Selection
- Corequisite Update(s)
- Prerequisite Update(s)
- Superseded Update(s)

Figure 32. Updates view of the Installation Information tab

The Applicable Platforms tab provides a list of the updates for Application Operating Systems.

Download selected updates from the IBM website

This topic describes how to download the latest version of the selected updates from IBM website.

About this task

This requires a network connection to the Internet and a license. You can use an HTTP Proxy to access the Internet or directly connect with the Internet. Perform one of the following steps to select updates to download:

- Click to select an **update**.
- Press **Ctrl or Shift** to select multiple updates.

Note:

- Only the updates that have been checked from the IBM website (called remote updates) can be selected to download.
- The UpdateXpress System Package has an integration-test bundle of online, updatable firmware and device driver updates for each System x and BladeCenter server. This is the preferred method for obtaining firmware and driver updates for the server.

Downloading the latest individual updates is the preferred method for installing the latest updates. This option downloads the latest updates and hot fixes, if available, than the UXSP option.

Download Wizard:

This topic describes how to use the Download Wizard.

Procedure

1. Click **Download Selected updates from IBM website** on the **Action** drop-down menu to open the Download Wizard.
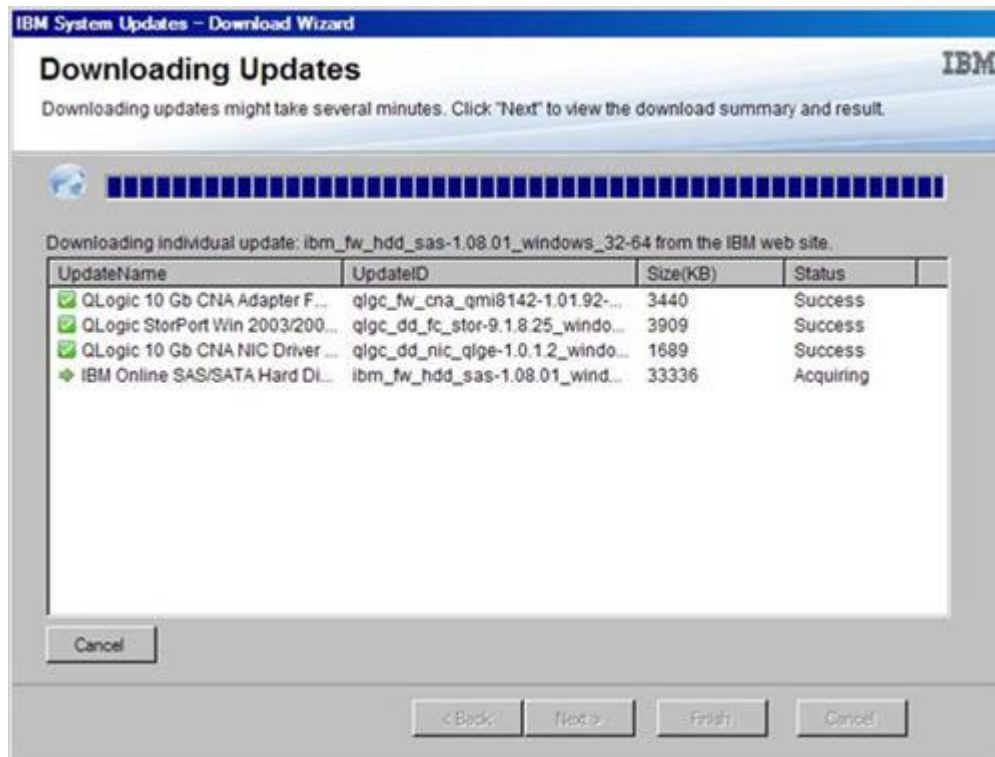
Figure 33. Downloading Updates

When the download has finished, the download status is displayed on the summary page.

2. Click **Finish**.

Figure 34. Download Finished

Download selected updates and publish them to Windows Server Update Services server

This topic describes how to download the latest versions of selected updates and publish them to Windows Server Update Services server directly.

About this task

This requires a network connection to the Internet and a license. You can use an HTTP Proxy to access the Internet or directly connect with the Internet.

Before you begin, you need to prepare the publishing environment. For more information see "Using Secure Sockets Layer for Windows Server Update Services server (Optional)" on page 16.

- Click to select an **update**.
- Press **Ctrl or Shift** to select multiple updates.

Note: Only the updates that have been checked from the IBM website can be selected to download.

Download and Publish Wizard:

This topic describes how to use the Download and Publish Wizard to download and publish selected updates to WSUS.

Procedure

1. Click **Download Selected updates and publish them to WSUS** on the Action drop-down menu to open the Publish Wizard.

Figure 35. Publish Wizard License Agreement

2. Accept the License Agreement and click **Next** to start downloading updates. It may take several minutes to finish.
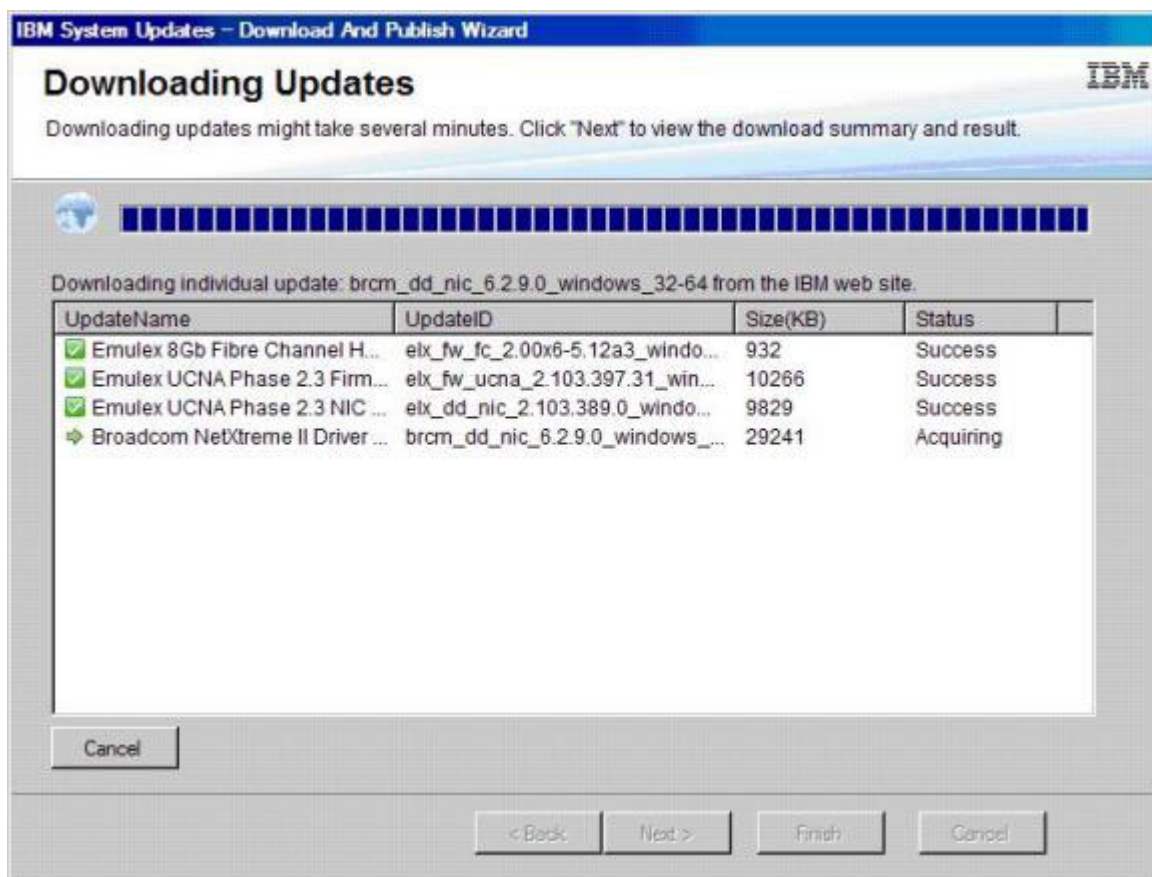
Figure 36. Downloading Updates

When downloading the updates has finished, the download status is displayed on the summary page.

3. Click **Next**.

4. On the Confirm Updates Packages page as shown in the figure below, confirm that all of the updates listed are ready to be published to the WSUS server. Click to select one of the following three check boxes and click **Next**.

- **Also select updates that are not installed or are undetected**. This option attempts to detect all possible hardware in the system. This option should be selected only if you have an unknown device in Windows that should be resolved.

- **Also select Host Bus Adapters (HBA) and Covered Network Adapter (CNA)**. If this option is not selected, Brocade, Emulex, and Qlogic HBAs and CNAs will not be updated. Prior to selecting this option, check the compatibility with your storage vendor.

- **Allow updates to be installed as a downgrade**. This option attempts to install a downgrade version of the firmware or driver to the hardware in the system. This option should be selected only if you want to install the update when a higher version may already be installed.
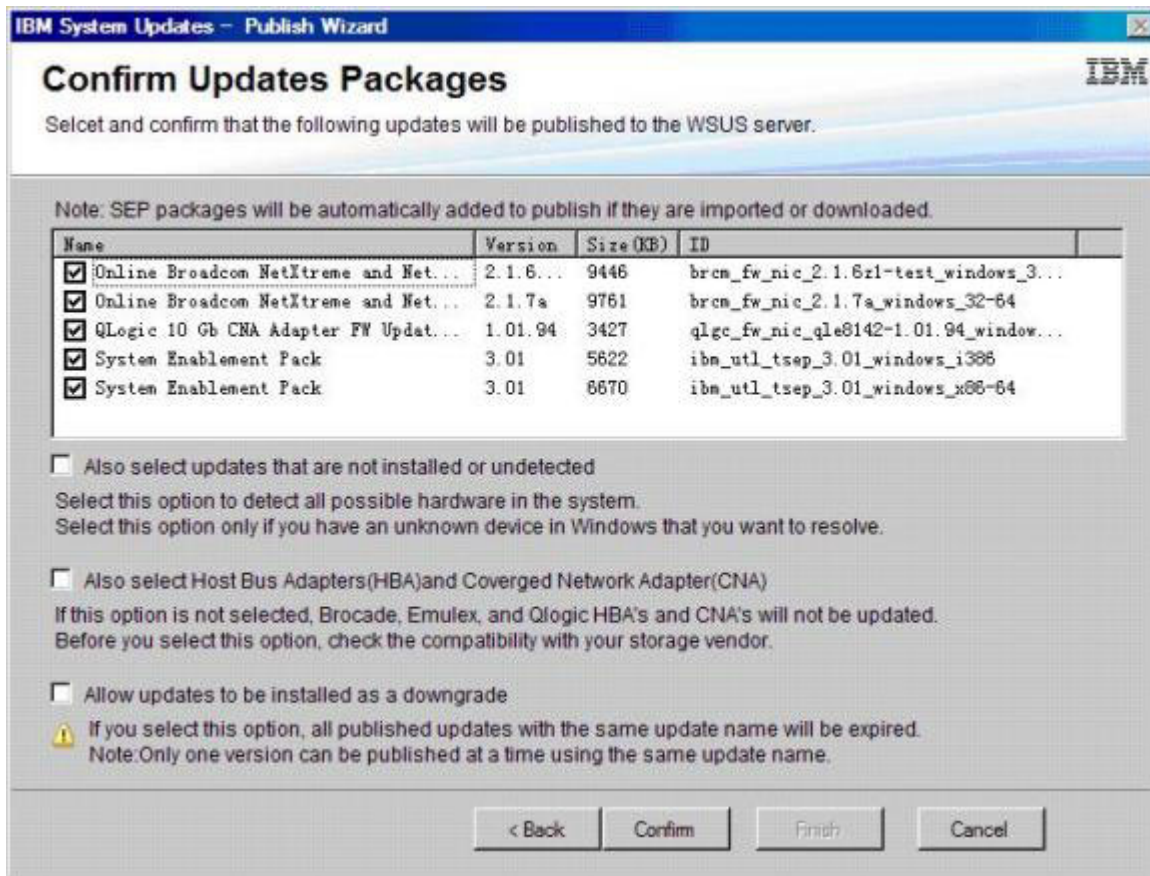
Figure 37. Confirm Updates Packages

On the Publishing Updates page, the publishing operation status is shown. This operation can take several minutes to finish.

5. Click **Next** to view the publishing results.
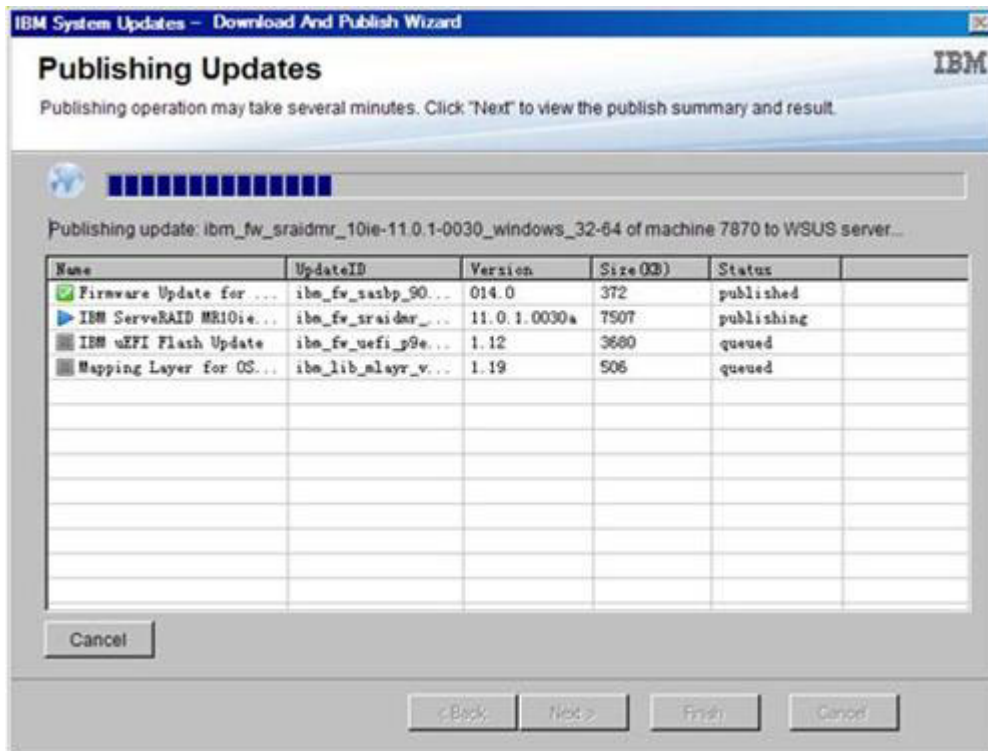
Figure 38. Publishing Updates

> The Publishing operation is complete page provides the publishing results and indicates how many updates were published to the WSUS server successfully. Any updates that were not published are listed.

6. Click **Finish**.
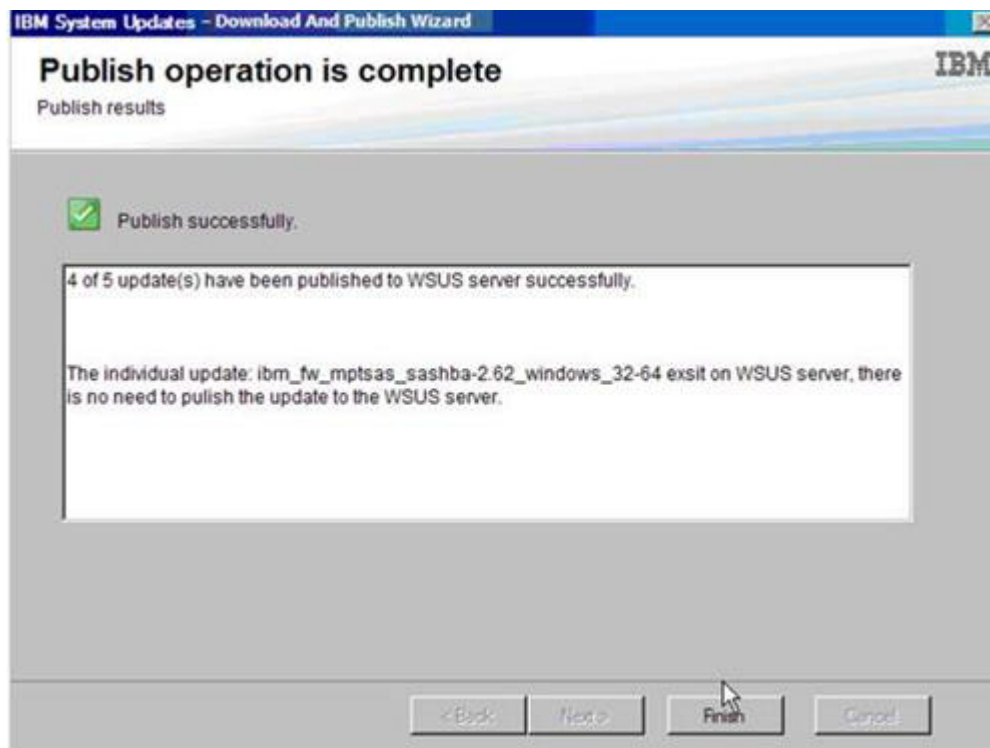
Figure 39. Publish operation is complete

Publish selected updates to the Windows Server Update Services server

This topic describes how to publish selected updates to Windows Server Update Services server.

Before you begin

Before you can publish IBM updates, verify that the Windows Server Update Services server and certificate are configured correctly. For more information, see "Windows Server Update Services server configuration" on page 14.

About this task

This requires a network connection to the Internet and a license. You can use an HTTP Proxy to access the Internet or directly connect with the Internet. See "Setup Wizard" on page 14 for information on configuring the Windows Server Update Services server.

Publish Wizard:

This topic describes how to use Publish Wizard, which provides instructions for publishing updates to a target Windows Server Update Services server.

Procedure

1. Click to select one or more local updates. Press **Ctrl and Shift** to select multiple updates to download.
2. Click **Publish Selected updates to WSUS** on the **Action** drop-down menu to open the Publish Wizard.
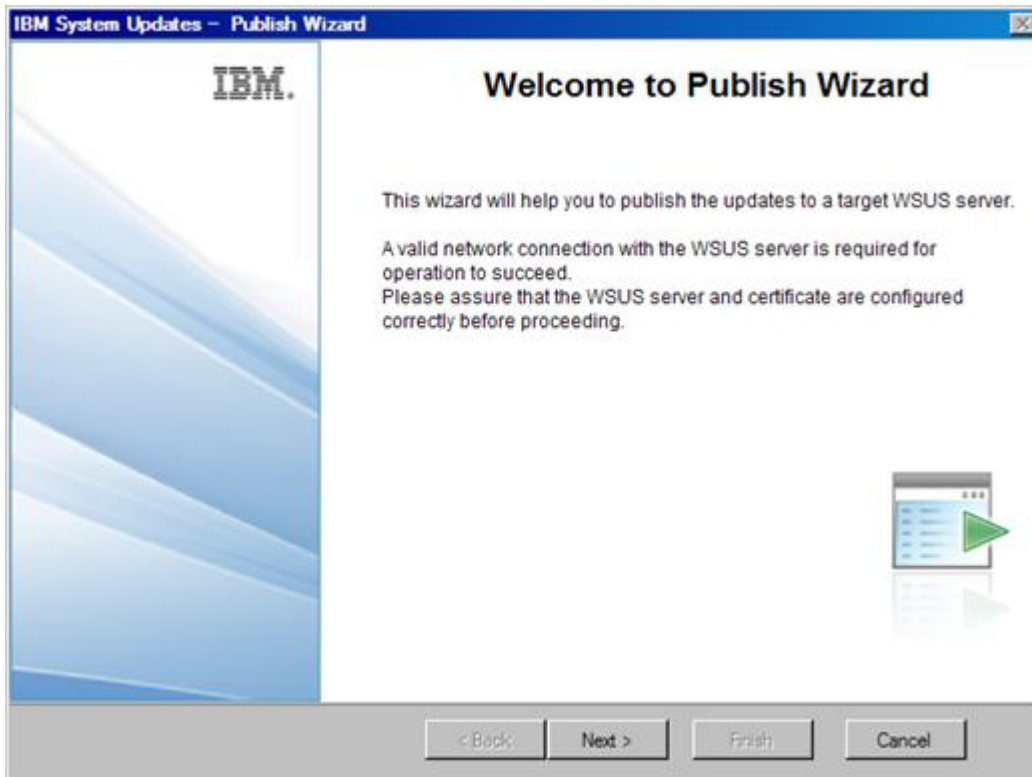
Figure 40. Publish Wizard Welcome

Complete steps 2 through 6 (with the exception of step 3) in "Download selected updates and publish them to Windows Server Update Services server" on page 38.

Create update sequence

You can organize two or more local updates into one sequence package. The sequence package wraps the updates and deploys them to the client machine. When UpdateXpress System Package Installer installs this package, it will automatically decide the order of the update installation.
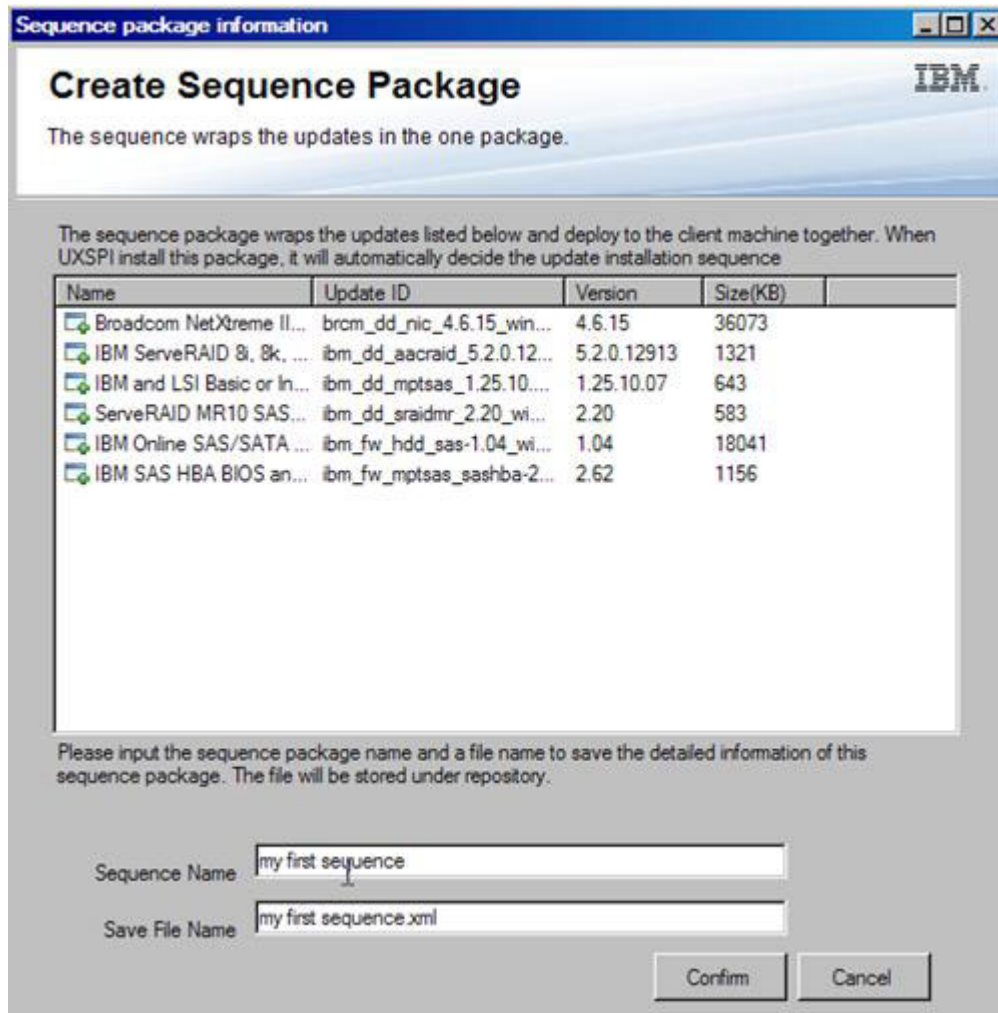
Figure 41. Create Sequence Package

The sequence can be saved and re-imported later for another deployment. The figure shown above is an example of a saved sequence, "my first sequence".

BladeCenter HS22 (7870)

Name	Category	Manufa
IBM Dynamic System Analysis (DSA) 3.40 - Preboot Embedded	Diagnostics	IBM
Integrated Management Module Update	IMM	IBM
BIOS and Firmware Update for the SAS Expansion Card (CFFv) for IBM BladeCenter	SAS	IBM
IBM ServeRAID MR10e (CIOv) Controller Firmware	SAS	IBM
IBM ServeRAID MR10e (CIOv) Controller Firmware	SAS	IBM
Intel-based Gigabit and 10 Gigabit Ethernet Drivers for Windows	Network	IBM
Intel Chipset Software Installation Utility	CHIPSET-INF	IBM
QLogic 10 Gb CNA FCoE STOR Driver for Windows	Converged Network Adapter	IBM
QLogic StorPort Win 2003/2008 Device Driver	Fibre	IBM
IBM iSCSI Server NIC Adapters Drivers	Network	IBM
QLogic 10 Gb CNA Adapter FW Update for Bladecenter	Converged Network Adapter	IBM
QLogic FC FW Update - F5.03.09 - B2.09 - E2.27	Fibre	IBM
my first sequence	N/A	N/A

Figure 42. Updates list with saved sequence

The Updates list contains the saved sequence "My first sequence".

The General tab provides a list of the following properties:
- Name
- Description
- Category
- Update ID
- Manufacturer

The Sequence Update General tab lists the updates fields as Updates ID.

Detail: my fist sequence

Update in Local Repository | Update on IBM Web Site | Update on WSUS Server

Version: 1.10.31.41   Date the IBM web site was last successfully checked: N/A.
                              Date the WSUS server was last successfully checked: N/A.

General | Individual Updates | Applicable Platforms | Revision History | Read Me File

Property Name	Value	
Name	my fist sequence	
Description	This sequence contains 4 updates.	
Category	N/A	
Update ID	sequence_my_fist_sequence_2011_03_17_10_31_41	
Manufacturer	N/A	
Update Selection	N/A	
Corequisite Update(s)	N/A	
Prerequisite Update(s)	N/A	
Superseded Update(s)	N/A	

Figure 43. Sequence update General tab

The Individual Updates tab provides a list of the sequence update as shown in following figure.
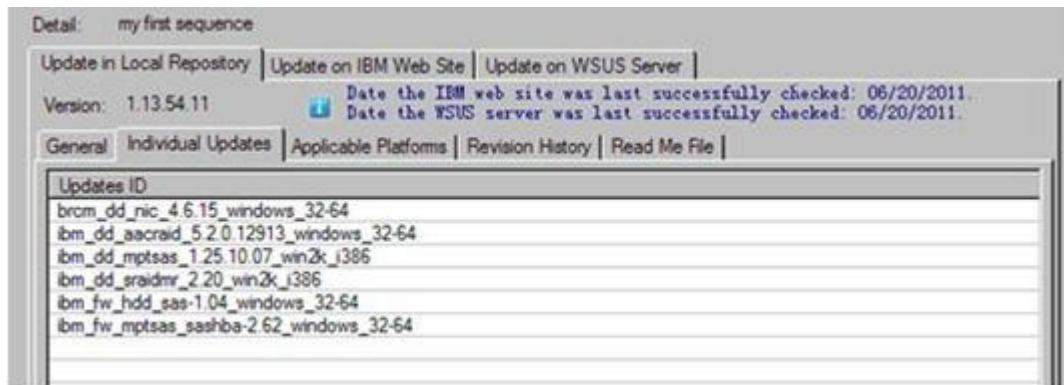
Figure 44. Individual Updates tab

Check Windows Server Update Services updates

The topics in this section describe how to check updates from Windows Server Update Services server.

You can retrieve all or selected updates and refresh the version of the updates for a specific machine type by using the **Actions** drop-down menu. This requires a network connection to the Internet and a license. You can use an HTTP Proxy to access the Internet or directly connect with the Internet.

There are two methods for checking updates from the Windows Server Update Services server:
- To check all updates from Windows Server Update Services.
- To check selected updates from Windows Server Update Services.

Check all updates from Windows Server Update Services:

This topic describes how to check all updates from Windows Server Update Services.

Procedure
1. Click the **machine name** on the left panel.
2. Click the **Action** drop-down menu.
3. Select **Check all updates from WSUS**.

   The checking process may take several minutes to finish. A progress window is displayed while the Check WSUS Updates is being done.

Check selected updates from Windows Server Update Services:

This topic describes how to check selected updates from Windows Server Update Services.

Procedure

1. Click the **machine name** on the left panel.
2. Click the **Action** drop-down menu
3. Select **Check all updates from WSUS**.

   The checking process may take several minutes to finish. A progress window is displayed while the Check WSUS Updates is being done.
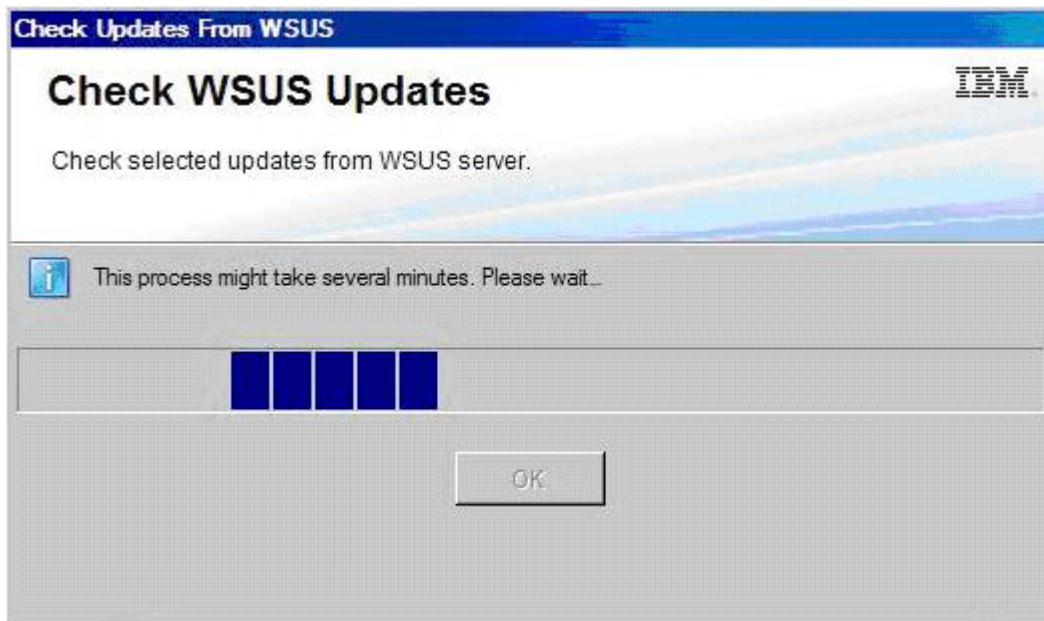
Figure 45. Check selected updates from WSUS

After checking the version of the updates on the Windows Server Update Services server, the Version on WSUS column is updated. The Update on WSUS Server tab will contain the updates General information and Package on WSUS information.

Expire selected updates from Windows Server Update Services

This topic describes how to expire selected updates from Windows Server Update Services.

About this task

This task requires a network connection to the Internet and a license. You can use an HTTP Proxy to access the Internet or directly connect with the Internet. See "Setup Wizard" on page 14 for information on configuring the Windows Server Update Services server.

- Click to select an **update**.
- Press **Ctrl or Shift** to select multiple updates.

Note: The expire updates option cannot be rolled back.
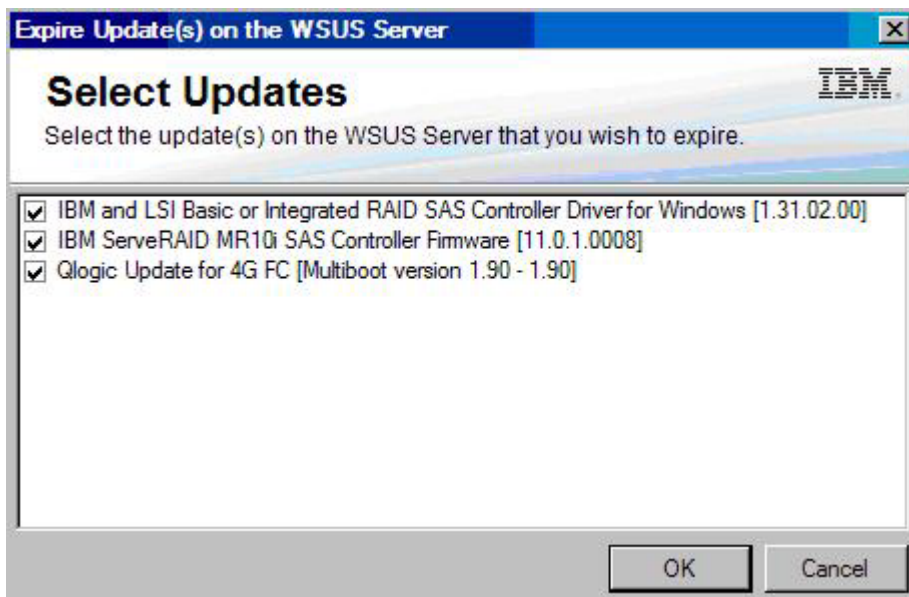
Figure 46. Expire Updates on WSUS Server

System x3550 (7978)

Actions ▼

	Category	Manufacturer	Version in Local	Version on IBM Site	Version on WSUS	
	BIOS	IBM	1.17		1.17	
ows	SAS	IBM	1.31.02.00		1.31.02.00	
ndows	SAS	IBM	1.30.02.00		1.31.02.00	
	N/A	N/A			Multiboot version 1.90 - 1.90	
	SAS	IBM	2.72		2.72	
ws	SAS	IBM	4.32.0		4.32.0_Expired	
dows	SAS	IBM	4.13		4.32.0_Expired	
	SAS	IBM	11.0.1.0014		11.0.1.0008	
	SAS	IBM	11.0.1.0008		11.0.1.0008	
	SAS	IBM	2.62		2.62	
	N/A	N/A	1.16.45.56		1.16.45.56_Expired	
	Network	IBM	11.7.4		11.7.4_Expired	
	Network	IBM	10.62		11.7.4_Expired	
	Video	IBM	8.24.5.3			

Detail: Broadcom NetXtreme Device Driver for Windows

Update in Local Repository | Update on IBM Web Site | Update on WSUS Server

Version 11.7.4 Expired

Date the IBM web site was last successfully checked: 06/20/2011.
Date the WSUS server was last successfully checked: 06/20/2011.

General | Package on WSUS

Property Name	Value
Title	[7978]Broadcom NetXtreme Device Driver for Windows ...
Description	Broadcom NetXtreme Device Driver for WindowsUpdate...
Package ID	872139ad-1d24-2260-6f01-85a2b5edb2c4
State	Expired
Publish Date	5/4/2011 9:07:23 AM

Figure 47. Expire updates detail view

This operation may take several minutes to finish. After the expire operation has finished, the Version is updated to *Version Number*_Expired. The detail information on the **Update on the WSUS** tab is updated and the **State property** value is Expired.

Expire selected updates to Windows Server Update Services without a license

If you do not have a valid license, you can expire the selected updates to the Windows Server Update Services server, using a different method from the fee-based solution. If the selected updates have not been published to Windows Server Update Services already, it will fail to expire.

Procedure

1. Click to select an **update**, or press **Ctrl or Shift** to select multiple updates.
2. Click **Expire Selected updates to WSUS** on the **Actions** drop-down menu. The Expire Wizard is displayed.
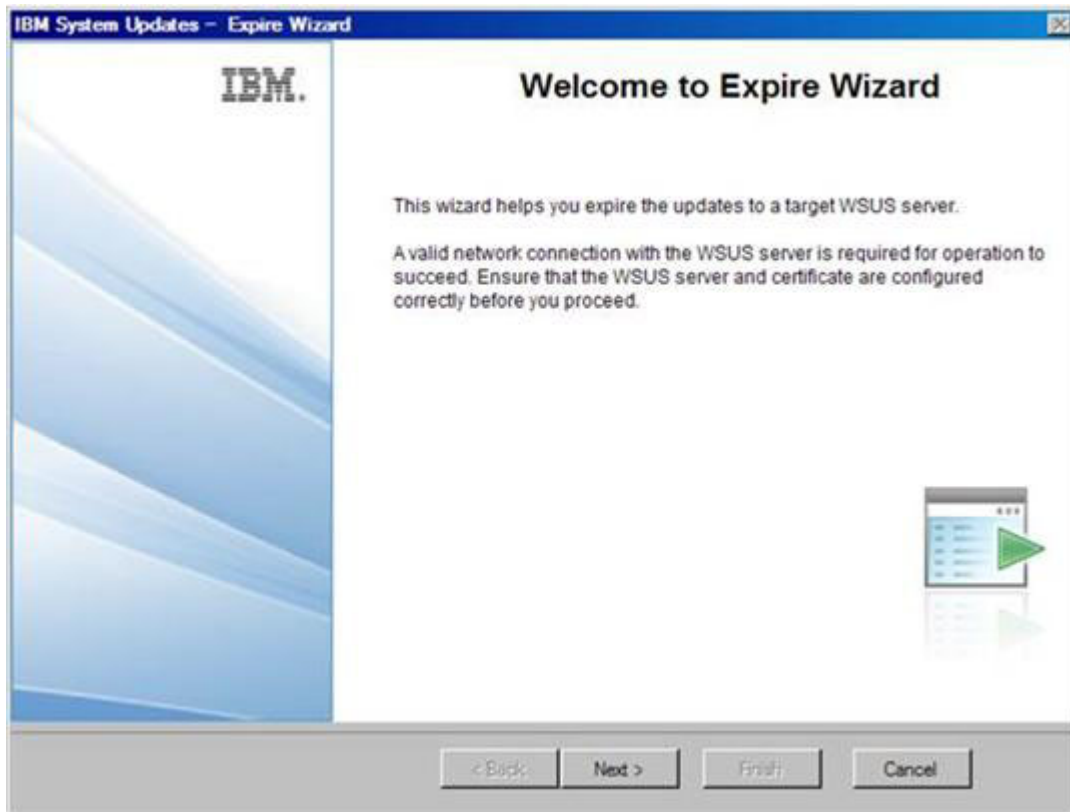
Figure 48. Expire Wizard Welcome

Delete selected updates

You can delete the selected updates from IBM Updates Repository.

Click the **machine name** and click **Actions**, and then click to select **Delete selected updates**.

My Machines view

My Machines view provides a list of machines on your system that can work with the IBM System Updates tool. You can use the IBM System Updates tool to add or remove a machine type. The ALL Updates view is updated when changes are made in the My Machines view.

Procedure

1. Click **My Machines**.
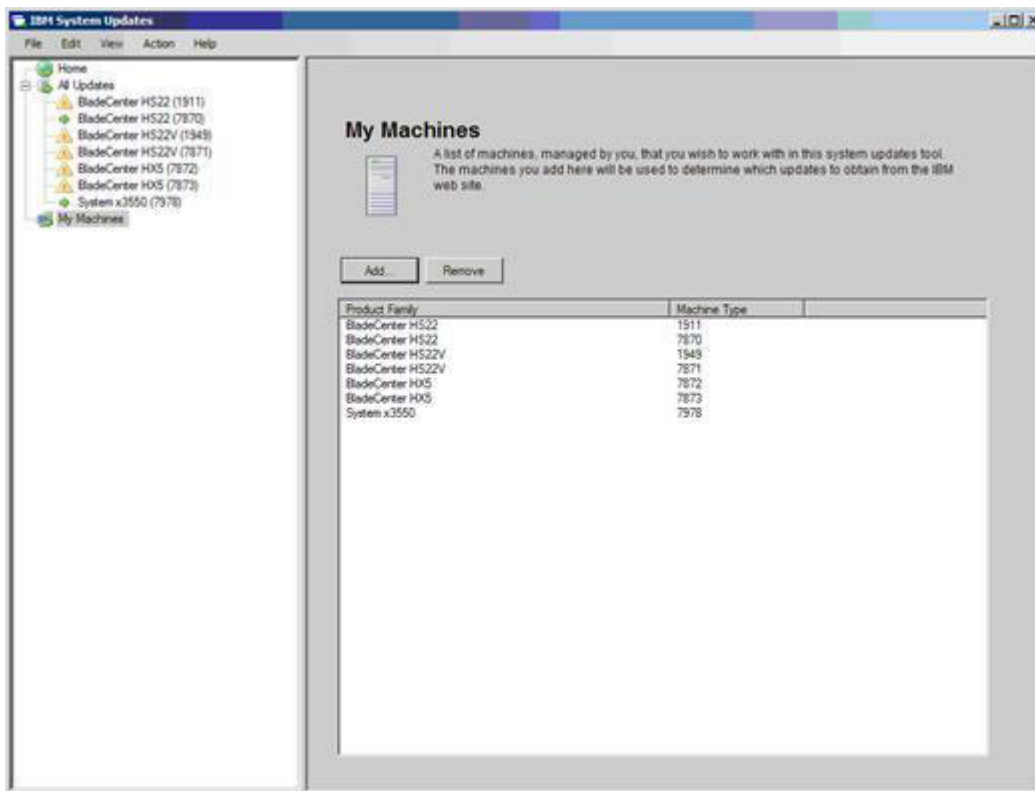
Figure 49. My Machines view

2. Click the **Add** button to open the Add New Machine Types window.
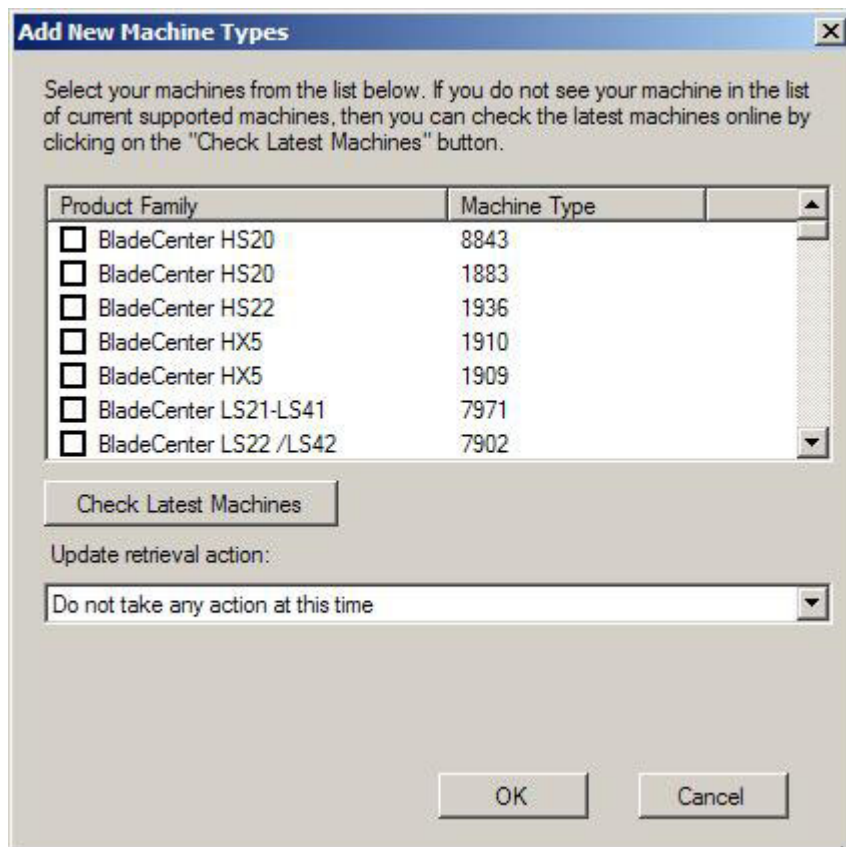
Figure 50. Add new machine types

3. Click to select one or multiple machines types. While adding new machine types, you can select the **Update retrieval** action.

   The Update retrieval action has four options:

   - Check updates from IBM website now
   - Copy updates from a local folder to the repository
   - Updates are already located in the repository
   - Do not take any action at this time

   You can also update the machine list by using the **Check Latest Machines** button. This requires a network connection to the Internet and a license. You can use an HTTP Proxy to access the Internet or directly connect with the Internet.

   For more information about the Check Latest Machines option, see "UpdateXpress System Package Installer upgrade" on page 27.

Generate Updates Comparison Report

The Generate Updates Comparison Report Wizard provides you with a comparison report that can be saved as a CVS or TXT file on the local directory or a shared network location. The report provides a list of updates to export that are managed by the IBM System Updates Acquisition and Publishing tool.

Procedure

1. Launch the IBM System Updates Acquisition and Publishing tool from the Start Menu. Click **Action** from the application menu bar, and then click **Generate Updates Comparison Report** to start the Generate Updates Comparison Report Wizard.
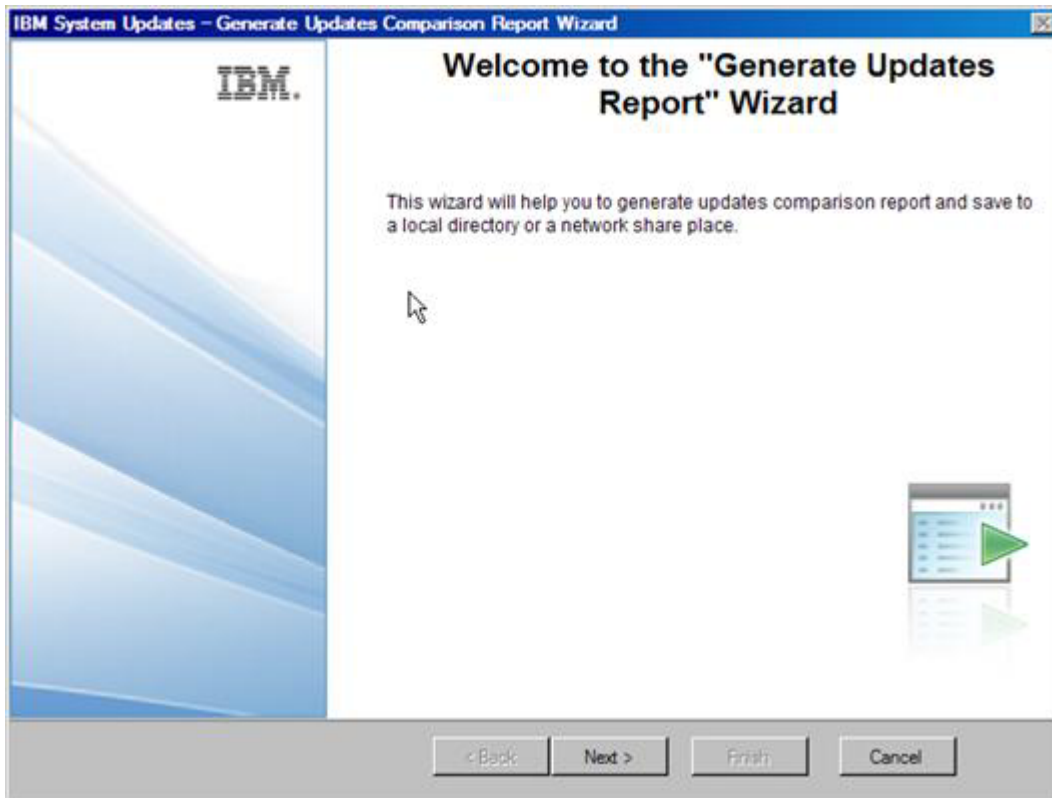
Figure 51. Generate Updates Report Wizard Welcome page

2. Click **Next** to continue.
3. Browse to select the folder where the report will be exported to.
4. Click to select the machine types for generating an updates report, or click **Select All** to select all the available machine types, and then click **Next**.
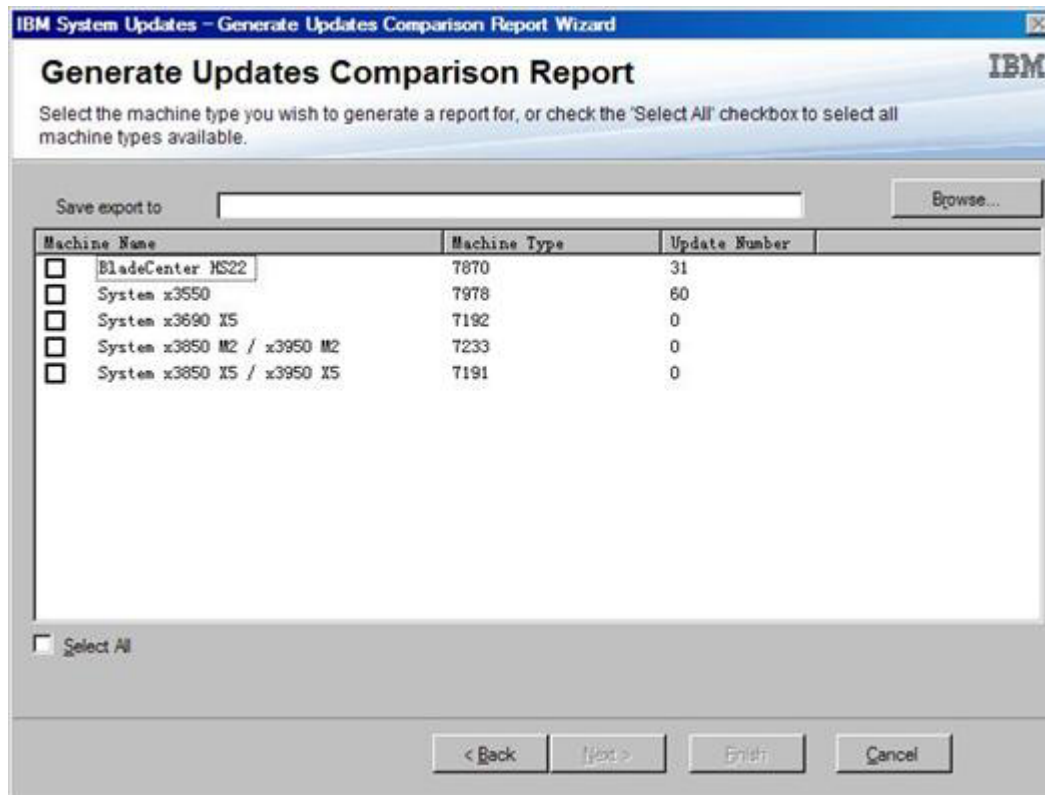
Figure 52. Generate Updates Comparison Report

5. Click **Finish** to close the Generate Updates Comparison Report Wizard. The comparison report is saved to the folder specified in step 3.
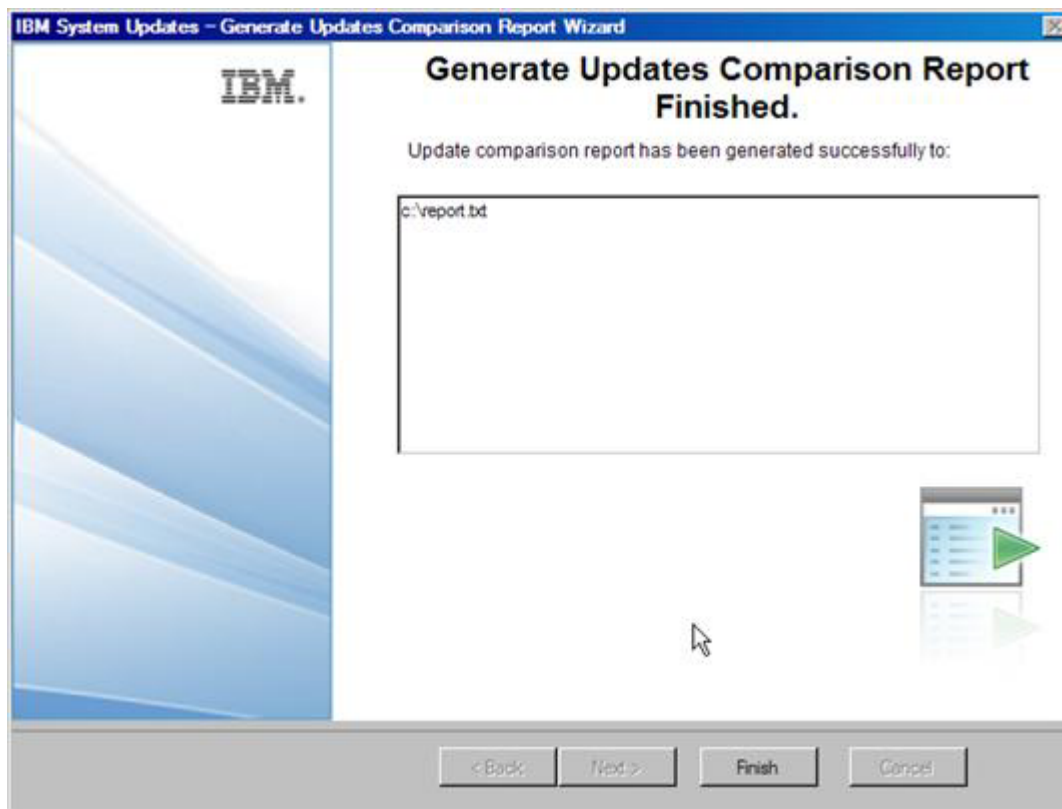
Figure 53. Generate Updates Comparison Report Finished

View journal of updates deployment

The view journal of update deployments results provides a list of updates deployment results for the client machine. The information on this list makes troubleshooting and problem diagnosis easier.

The information in the journal consists of:
- Update ID
- Update Name
- Update Version
- Installation Date
- Deployment Result
- Detail

Using the View journal of updates deployment

This topic describes how to use View journal of updates deployment.

About this task

The following procedure describes how to generate the view journal of updates deployment.

Procedure

1. Launch IBM System Updates Acquisition and Publishing tool from the Start Menu. Click **Action** from the application menu bar, click **Remotely View Journal of Update Deployments for Endpoints** to start the log in window.
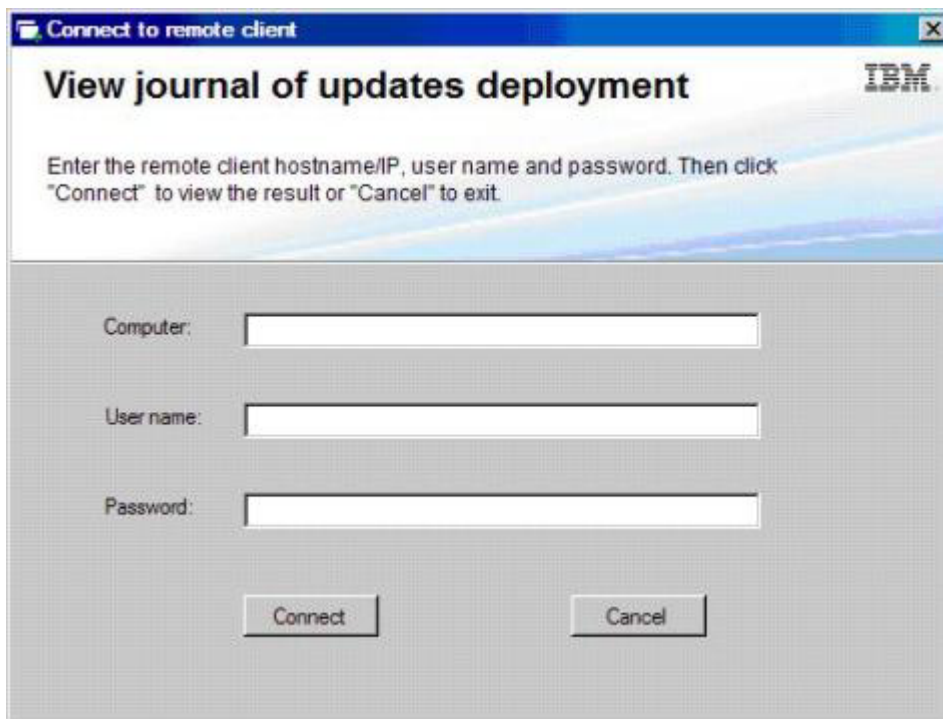
Figure 54. View journal of updates deployment log in page

2. Enter the following remote client information on this page and click **Connect**.

   - Computer
   - User name
   - Password

   If the IBM System Updates Acquisition and Publishing tool logs into the remote client successfully, then the deployment history state will be shown in the result view.
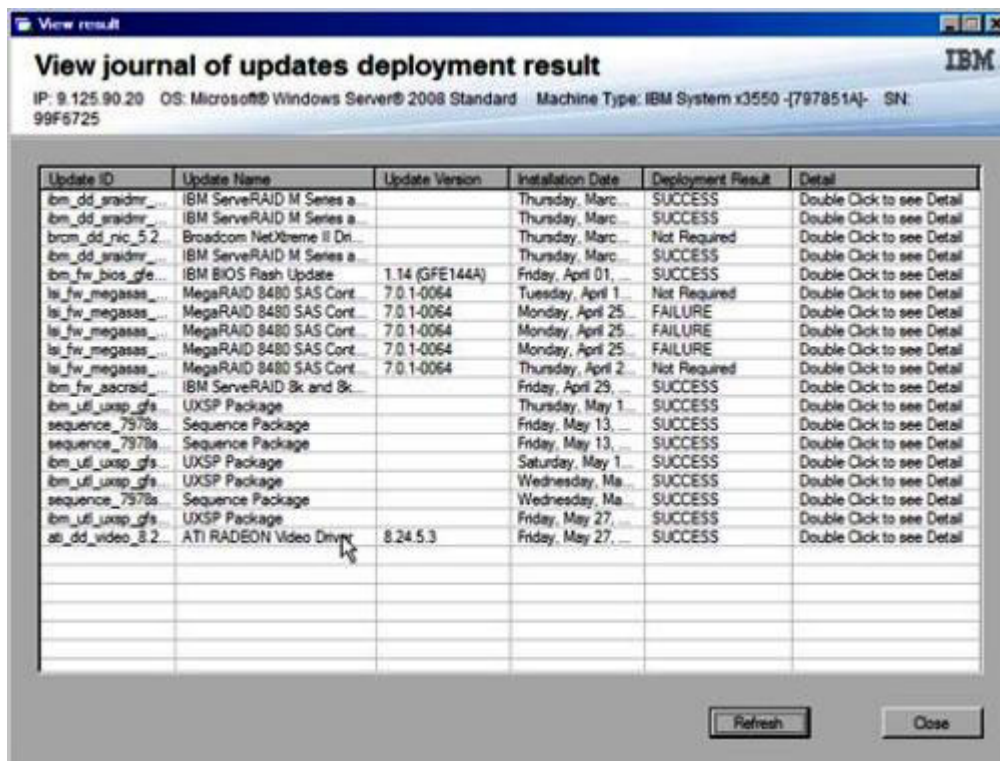
Figure 55. View journal of updates deployment result

3. Double click **Update ID** (or select **Update ID**, then press **Enter**) in the result list to open and view the log files for an update. The log file can be one of the following file types: result.txt, a SUAP log file, a co_result.xml, or an up_result.xml file.

4. Click **Refresh** to check the latest deployment result.

5. Click **Close** to exit the view journal updates deployment result.

Scanning clients for updates compliance

When a managed system receives the machine policy, a compliance scan is scheduled. Windows Update Agent (WUA) connects to the Windows Server Update Services server, retrieves the list of updates, and scans the managed system for applicability and installed rules of each update.

IBM updates have rules to check WMI and the Register key for applicability. The compliance information will be sent back to the SCCM server. An administrator can see which updates are needed based on the compliance information.

Microsoft System Center Configuration Manager (SCCM) 2007

This topic describes how to use the Microsoft System Center Configuration Manager (SCCM) Console.

Before you begin

The following steps assume the SCCM server is already set up and configured for the environment. For information about how to set up the SCCM server, see Microsoft System Center Configuration Manager.

Procedure

1. Click **Start** > **All Programs** > **Microsoft System Center** > **Configuration Manager 2007** > **ConfigMgr Console** to launch the Configuration Manager Console.

2. In the left pane, expand **Site Database** > **Computer Management** > **Software Updates**. Right-click **Update Repository** under the Software Updates folder and select **Run Synchronization**.
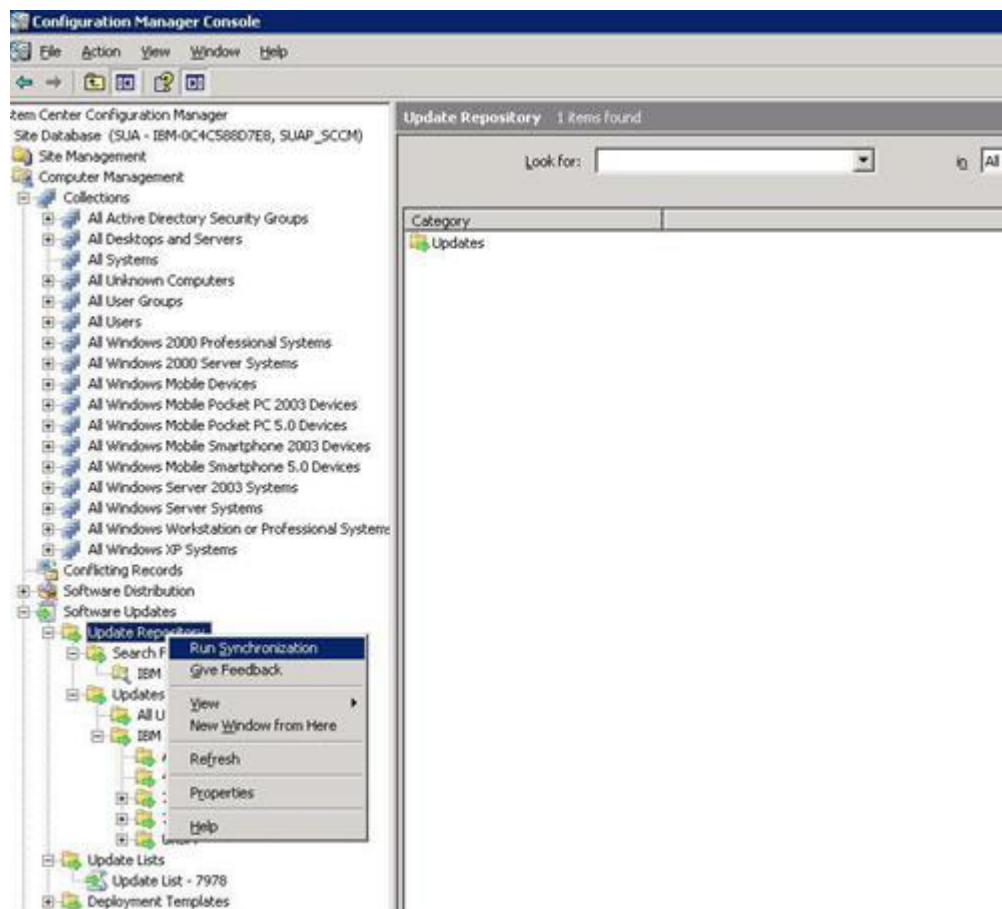
Figure 56. Synchronizing the Update Repository

3. Click **Yes** to initiate a site wide software update synchronization.

The synchronization process may take a few minutes to complete. There is no visual indication that the process has completed.

What to do next

You can view the synchronization log to determine successful completion using the following steps:

1. In the left pane, expand **Site Database** > **System Status** > **Site Status**. Expand **site server**, and then click **Component Status**. The list of SCCM server components and their current status is displayed in the results pane.

2. In the results pane, right-click to select **SMS_WSUS_SYNC_MANAGER**, and then click **Show Messages** > **All**.

The SMS Status Message Viewer for the site server window is displayed with the status messages for the WSUS Sync Manager. Note the most recent message which indicates when the synchronization process started, was in progress, and completed.
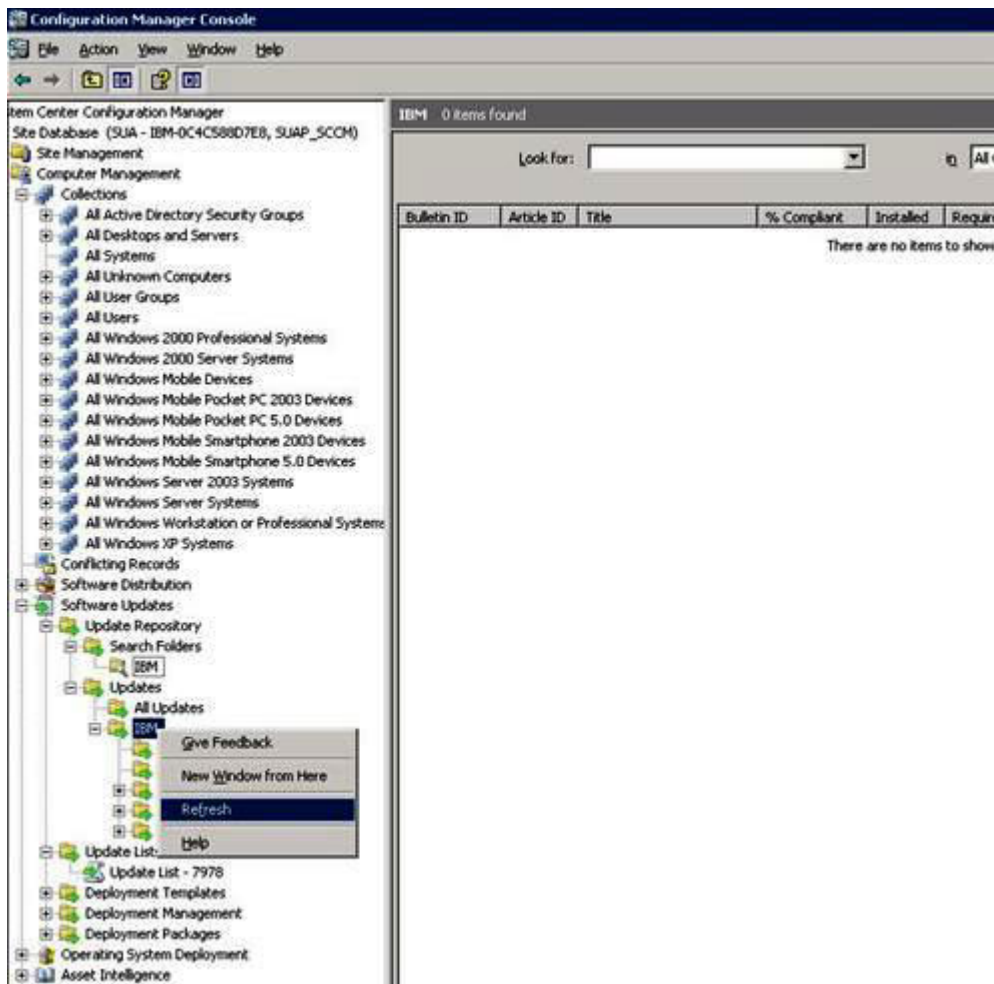
Figure 57. Refreshing the IBM folder

3. After synchronization has finished successfully, right-click the **IBM folder** under the All Updates folder and select **Refresh**, to refresh the IBM folder.

Published updates can be viewed in their corresponding machine type folder under the IBM folder as shown in the following figure.
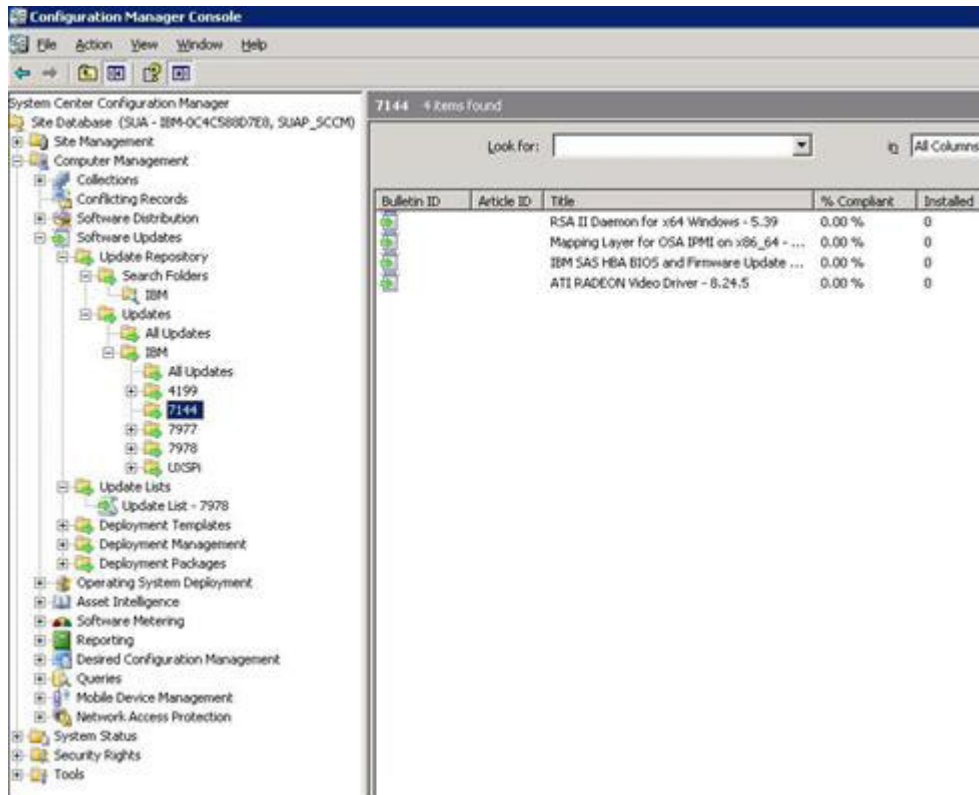
Figure 58. Viewing published updates

After updates have been deployed to their corresponding clients, the clients report to the site database on the next software update scan on client systems, whether each update is applicable or installed for each client. The administrator can see the reported data and decide which updates need to be distributed based on the following information:

- **Installed**: Shows the number of clients reporting that the update has been installed.
- **Required**: Displays the number of clients reporting that the update is applicable and not yet installed or the installation status has not reached the site server database.
- **Not Required**: Shows the number of clients not applicable for an update.
- **Unknown**: Displays the number of clients that have not had a successful scan for the software update compliance or the scan result has not been reported back to the site server.

Important: The UpdateXpress System Package is a prerequisite to all other IBM updates. It should be deployed to client system before all of the other IBM updates. If the UpdateXpress System Package is not deployed on the client system, the other IBM updates will be marked as **Not Required** on that client system. If the target machine needs an SEP package, the SEP package should be deployed before the UpdateXpress System Package is deployed.

After the UpdateXpress System Package has been deployed successfully, if one update has not been deployed on the client system, the compliance result of this

update will be marked as **Required**.

Deploying IBM updates in Microsoft System Center Configuration Manager

Once the administrator determines which updates need to be distributed, the administrator selects the IBM updates and distributes them to client systems by creating deployment packages.

When clients of the targeted collections receive a new deployment from the management point, clients download software updates from a distribution point that has a deployment package containing the necessary software update binaries. The binaries are then installed on clients and the compliance status is reported to the site server.

The downloading and publishing phases are implemented by the IBM System Updates Acquisition and Publishing tool; the following phases are implemented on SCCM. In the following section, we use the sequence previously described to introduce the IBM System Updates for Microsoft System Center Configuration Manager, v3.2 solution.

IBM updates deployment prerequisites

This topic provides steps for adding the **System Update Point Role** in Microsoft System Center Configuration Manager.

Before you begin

Check the System Status in the left panel under **Site Database**. If the status in Site Status and Component Status and Site System Status for all items are functioning normally, the SCCM server status is normal.
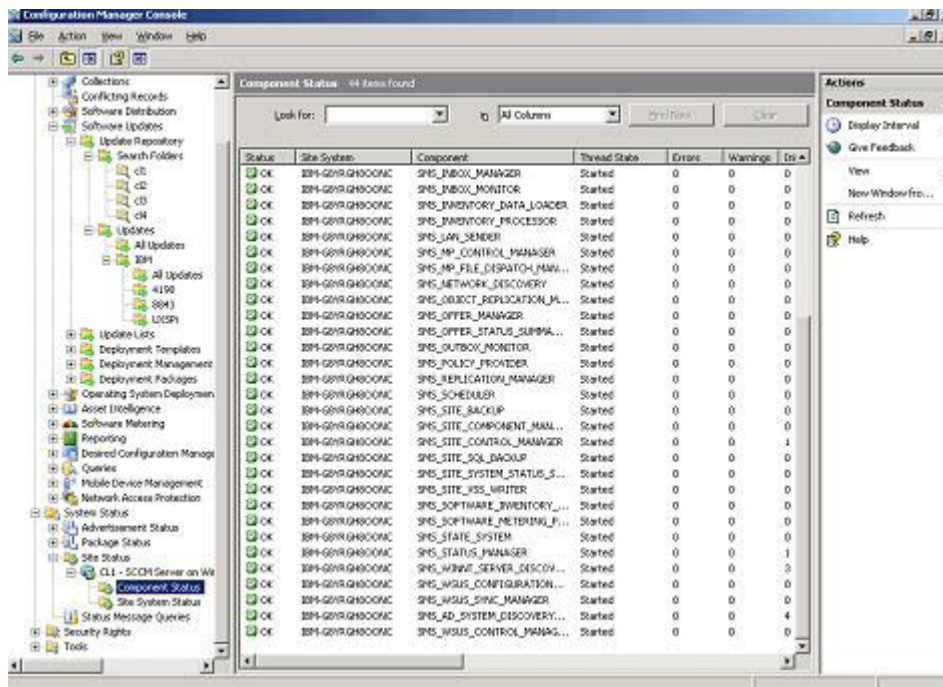
Figure 59. Component Status

Procedure

1. In the left panel of SCCM, expand **Site Database** > **Site Management** > **%Site Name%** > **Site Settings** > **Site Systems**, and right click the <**Site Name**> and select **New Role**. The New Site Role Wizard starts.

2. Click **Next**.
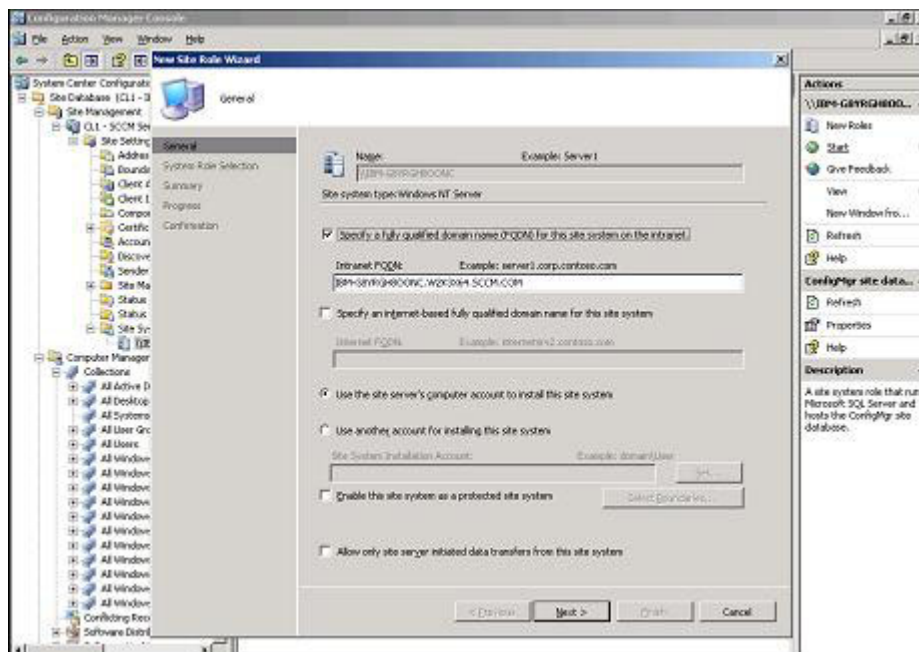
Figure 60. Configuring the system update service point

3. Select the **System Update Service Point role** and then select the default setting to configure the system update service point.

   a. Discover client systems and install the management agent through the SCCM server.

   b. Configure the WSUS self-signing certificate on client systems. Ensure that the SCCM managed client system has the Windows Server Update Services Publishers Self-signed Certificate in its Trusted Root Certification Authorities folder.

   c. Check the Allow Signed Content from intranet Microsoft update service Location on the SCCM Client using Windows group policy editor.

   d. Configure the group policy on the client computers. There are several methods for configuring the group policy on client computers.

      Use the following procedure to configure the group policy on client computers.

      1) On the SCCM managed client operating system, click **Start** and select the **Run** option. Type GPEDIT.MSC and click **OK**.

      2) Expand **Computer Configuration** > **Administrative Templates** > **Windows Components** > **Windows Update**.
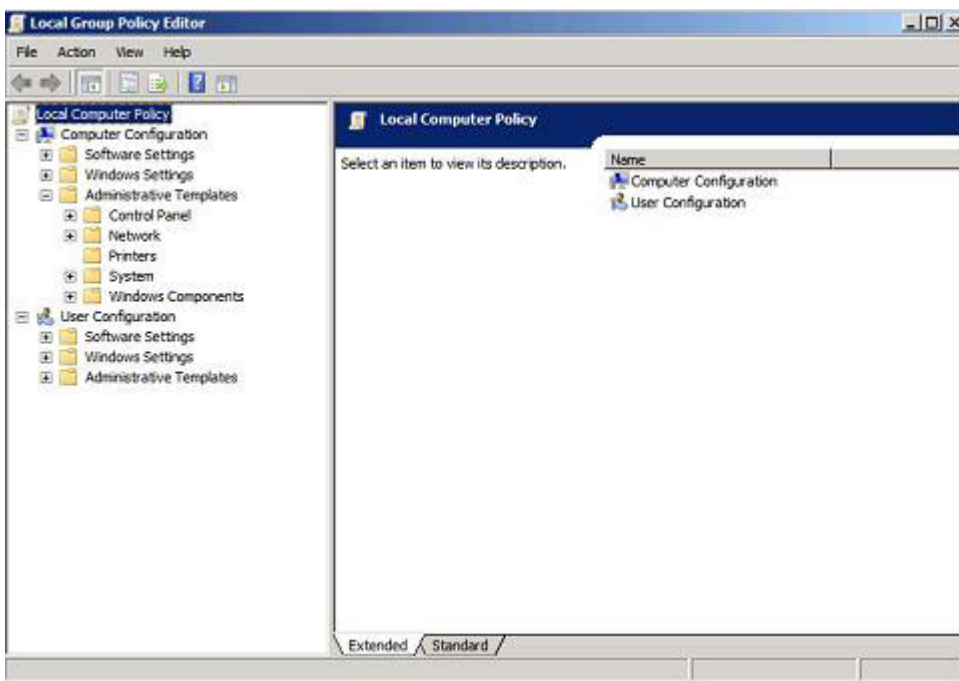
Figure 61. Local Computer Policy configuration

      3) Double-click **Allow signed content from intranet Microsoft up-date service location**.
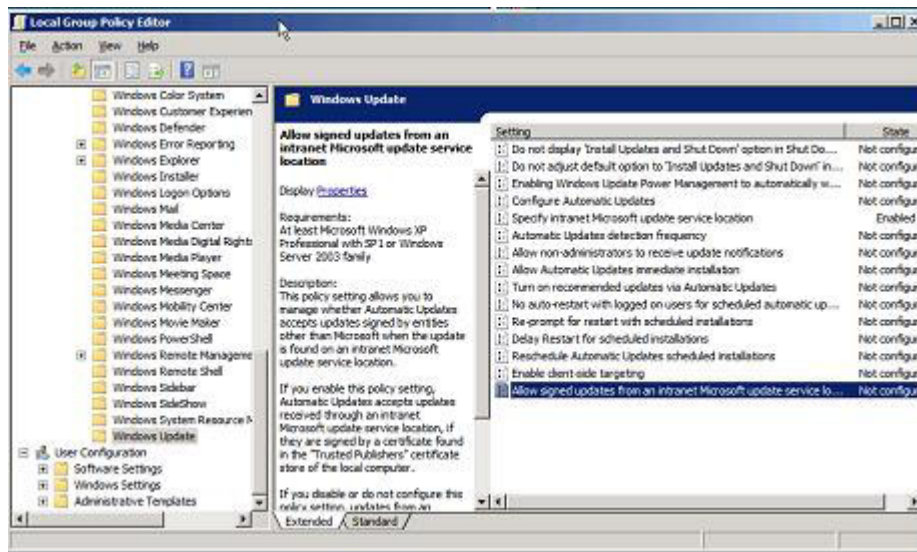
Figure 62. Allow signed updates from an intranet Microsoft update service location

    4) Select **Enabled** and click **OK**. Close the Group Policy editor.

4. Make sure .NET Framework 2.0 or higher is installed on the SCCM client before deploying IBM Updates to the SCCM client.

Deploy the IBM System Enablement Pack from the Microsoft System Center Configuration Manager server to Microsoft System Center Configuration Manager client

The IBM System Enablement Pack (SEP) is a package that contains system-specific codes. It is used to support new System x and Blade server for IBM Dynamic System Analysis (DSA), firmware updates and operating system deployment. If the target client relies on the SEP, it should deploy this package first.

About this task

The following procedure describes the steps for deploying an IBM System Enablement Pack package from SCCM server to SCCM client.

Procedure

1. Open the SCCM console.
2. Expand **Software Updates** > **IBM** and then double click the **machine name**.
3. In the right panel, right-click the **SEP to be deployed**, and then select **Deploy Software Updates**.
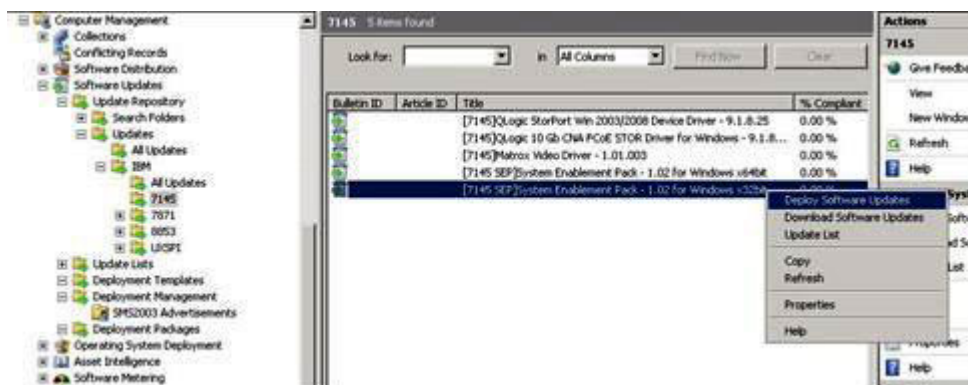
Figure 63. Deploy Software Updates

The Deployment Software Updates Wizard opens.
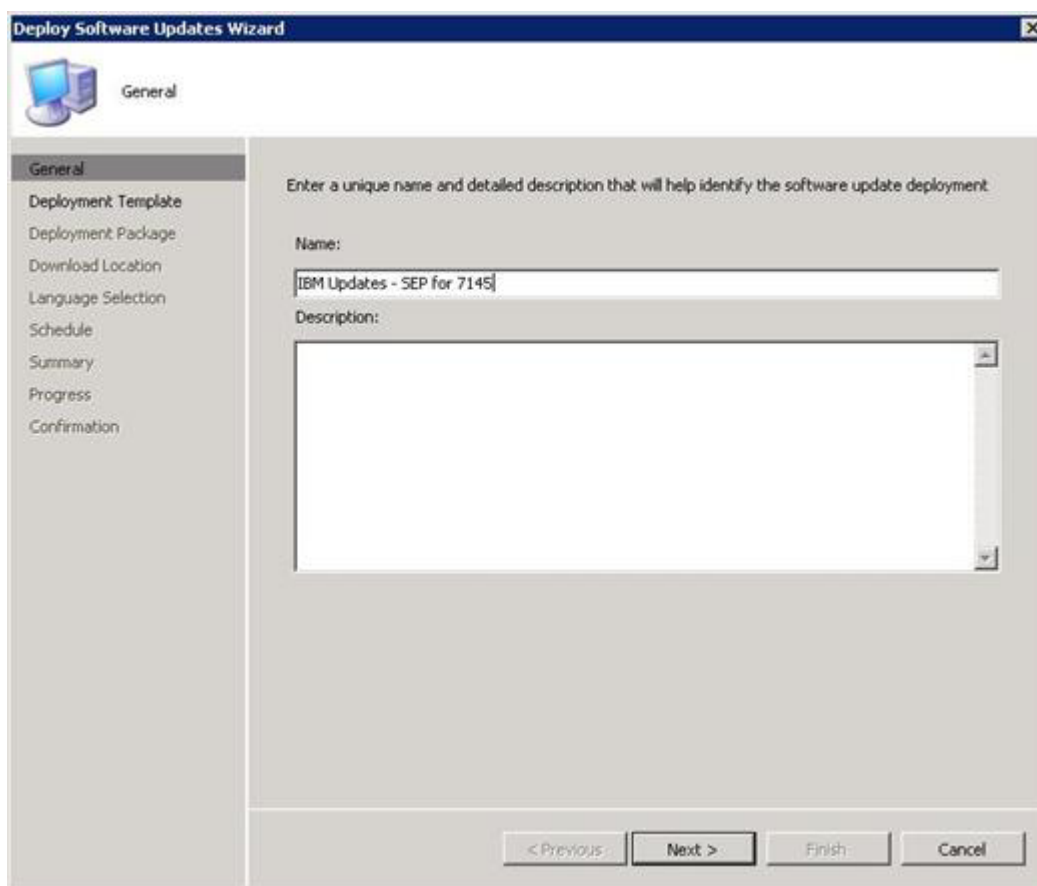
Figure 64. Deploy Software Updates Wizard - General

4. On the Deploy Software Wizard page, enter the following information and click **Next**.

   a. **Name**

   b. **Description**
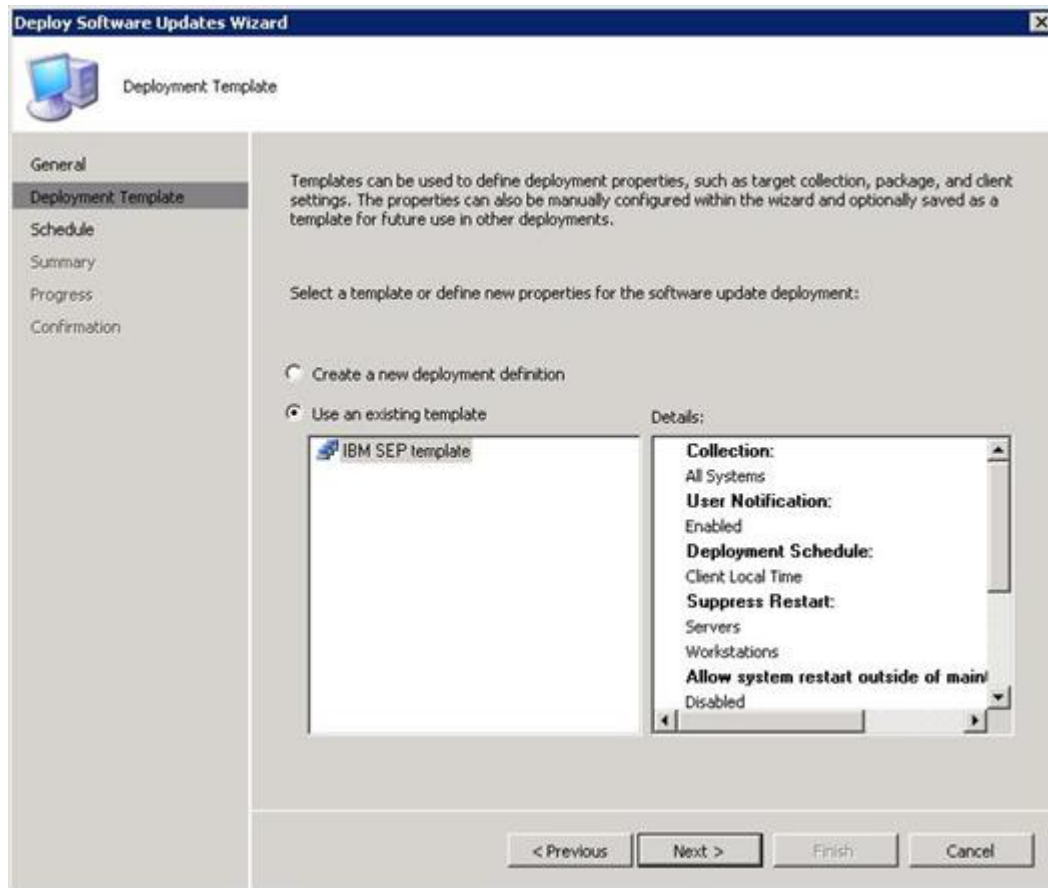
Figure 65. Deployment Software Updates Wizard Template

5. Click **Create a new deployment definition** and then click **Next**.

Figure 66. Deployment Package

6. On the Deployment Package page, enter the following information and click
   Next:

   a. In the **Name** field, enter the name of the SEP.

   b. **Browse** to the Package source file location.

   c. Select **Priority**.

7. Select the download location for the software updates. Click **Download
   software updates from a location on the local network**. **Browse** to the
   software updates file location and click Next.
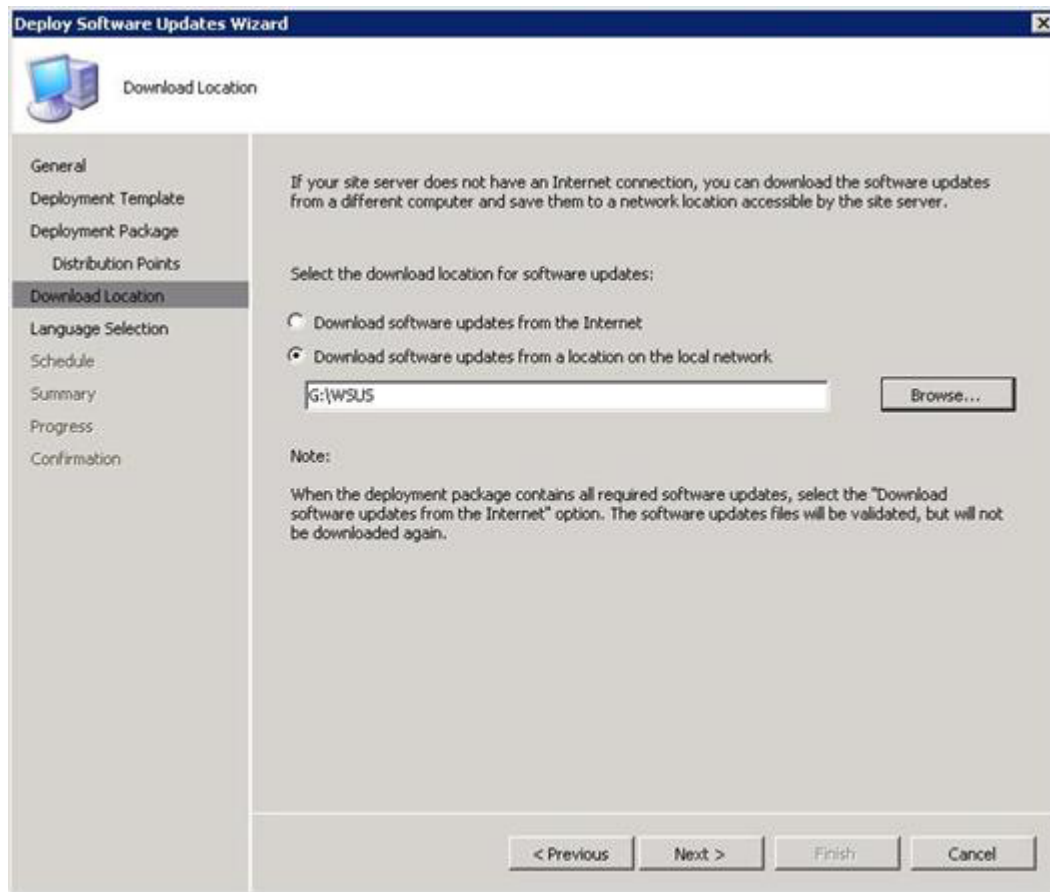
Figure 67. Deployment Location

8. On the Deployment Schedule page, make the following selections and click **Next**:

   a. Select a date and time for the software updates to be available on the clients.

   b. Set a deadline for the software updates installation.

   c. Enable wake on LAN if the software updates are urgent. (optional)

   d. Enable Ignore maintenance schedule and install immediately on deadline. (optional)
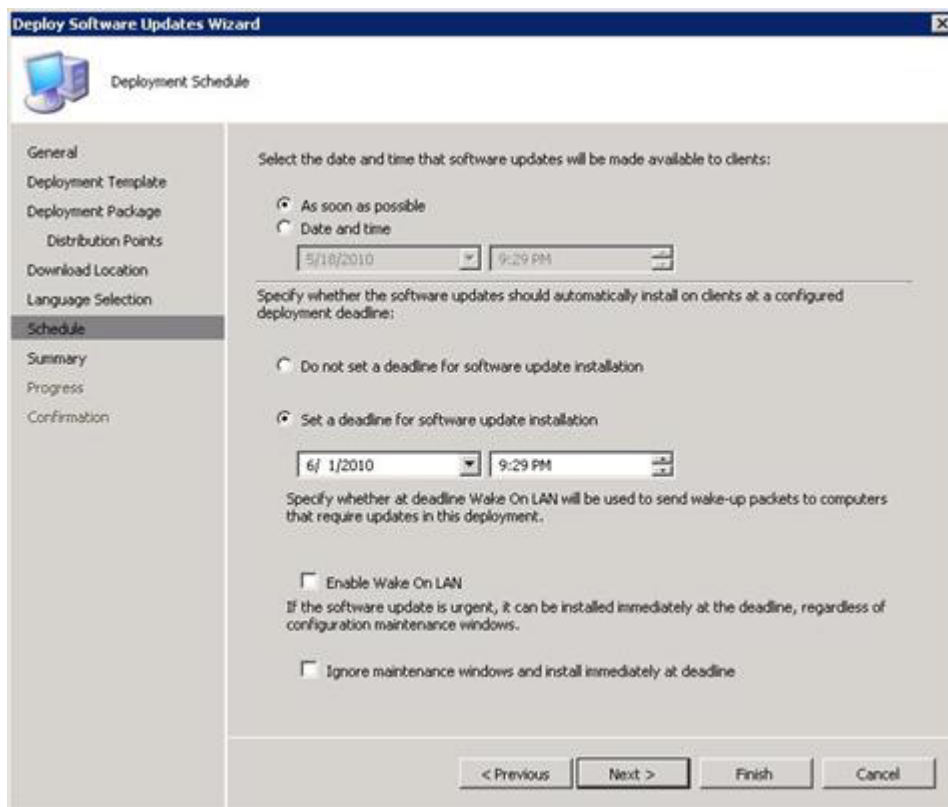
Figure 68. Deployment Schedule

When the deployment has finished, the status is displayed.

9. Click the **Close** to close the wizard.

Deploy the IBM UpdateXpress System Package Installer from the Microsoft System Center Configuration Manager server to the Microsoft System Center Configuration Manager client

The UpdateXpress System Package Installer (UXSPi) is the prerequisite to all other IBM updates. It should be deployed to client system before all other IBM updates.

If the UXSPi is upgraded and any update is published to the Windows Server Update Services server, the newer UpdateXpress System Package replaces the old UpdateXpress System Package (if any) on the SCCM server. The following topics provide three methods of different situations for deploying the package when it is upgraded to a newer UXSPi version.

Deploy the IBM UpdateXpress System Package Installer from the Microsoft System Center Configuration Manager server to the Microsoft System Center Configuration Manager client if the old UXSPi is not deployed

This topic describes how to deploy the IBMUpdateXpress System Package Installer from the SCCM server to SCCM client if the old UpdateXpress System Package is not deployed.

Procedure

1. Open the SCCM console, then select and right-click the **UXSPI** to be deployed under the UXSPI machine folder and select **Deploy Software Updates**.

Figure 69. Deploying UXSPI to an SCCM client

2. For this step, follow the procedure as described in "Deploy the IBM System Enablement Pack from the Microsoft System Center Configuration Manager server to Microsoft System Center Configuration Manager client" on page 65, using steps 4-9.

Deploying the IBM UpdateXpress System Package Installer from the Microsoft System Center Configuration Manager server to the Microsoft System Center Configuration Manager client if the old UXSPi is deployed

The topics in this section describe three methods for deploying the UpdateXpress System Package Installer from the SCCM Server to the SCCM client if the IBM UpdateXpress System Pack Installer is upgraded and the old UpdateXpress System Package is deployed.

Method 1 for deploying the UpdateXpress System Package Installer when it is upgraded to a newer UXSPi version:

This topic describes how to deploy the package when it is upgraded to a newer UXSPi version.

About this task

There are three methods of deployment. In this release, Method 2 is recommended.

Delete the old UXSPi deployment advertisement and deployment package and create a new UXSPi deployment package. Perform the following steps for deploying the UpdateXpress System Package from the SCCM server to the SCCM client.

Procedure

1. Open the SCCM console and delete the old UXSPi deployment package under **Deployment Management**.
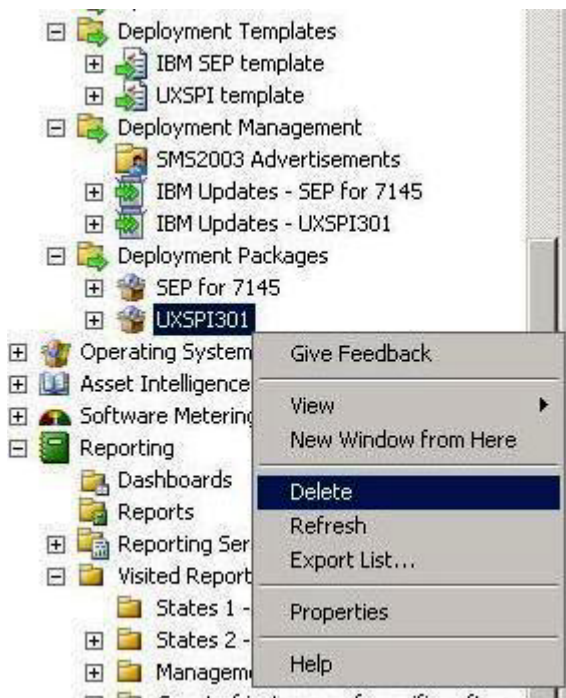
Figure 70. Deleting the old UXSPI advertisement

2. Delete the old UXSPi deployment package under **Deployment Packages**.
3. Right-click the UpdateXpress System Package to be deployed under **UXSPI machine** category and select **Deploy Software Updates**.

   Follow the procedure as described in "Deploy the IBM System Enablement Pack from the Microsoft System Center Configuration Manager server to Microsoft System Center Configuration Manager client" on page 65, from step 4.
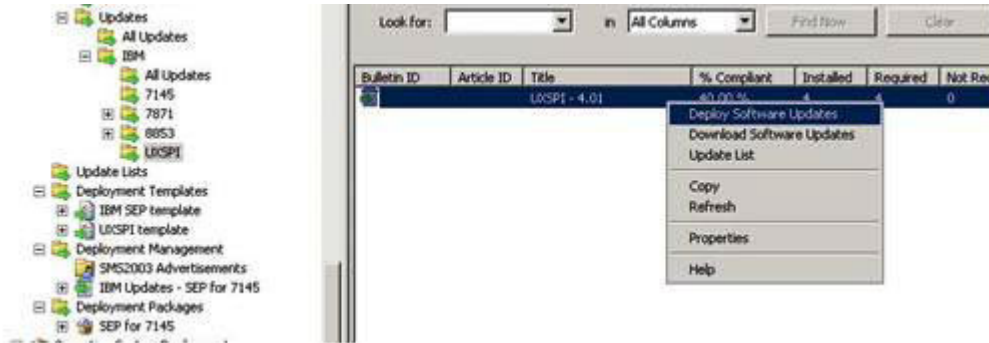
Figure 71. Deploying the UXSPI software package

Method 2 for deploying the UpdateXpress System Package Installer when it is upgraded to a UXSPi newer version:

This topic describes how to deploy the package when it is upgraded to a newer UXSPi version.

About this task

The new UXSPi deployment package and the old UXSPi deployment package coexist.

Procedure

1. Open the SCCM console, right click the **UXSPI** to be deployed under the **UXSPI machine** category, and select **Deploy Software Updates**.
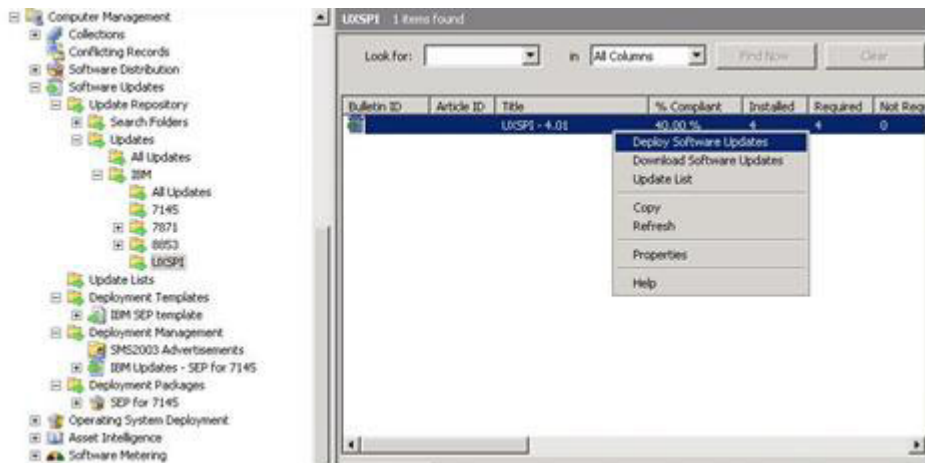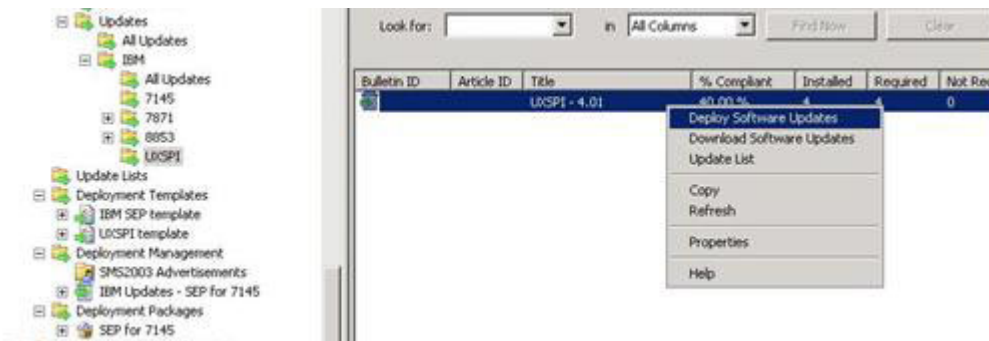

Figure 72. Deploying software updates when new and old packages coexist

2. For this step, follow the procedure as described in "Deploy the IBM System Enablement Pack from the Microsoft System Center Configuration Manager server to Microsoft System Center Configuration Manager client" on page 65, from step 4.

Method 3 for deploying the UpdateXpress System Package Installer when it is upgraded to a newer UXSPi version:

This topic describes how to deploy the package when it is upgraded to a newer UXSPi version.

About this task

Adding a new UXSPi package to an existing UXSPi deployment package.

Procedure
1. Open the SCCM console, right click the **UXSPI** to be deployed under the **UXSPI machine** category, and select **Deploy Software Updates**.
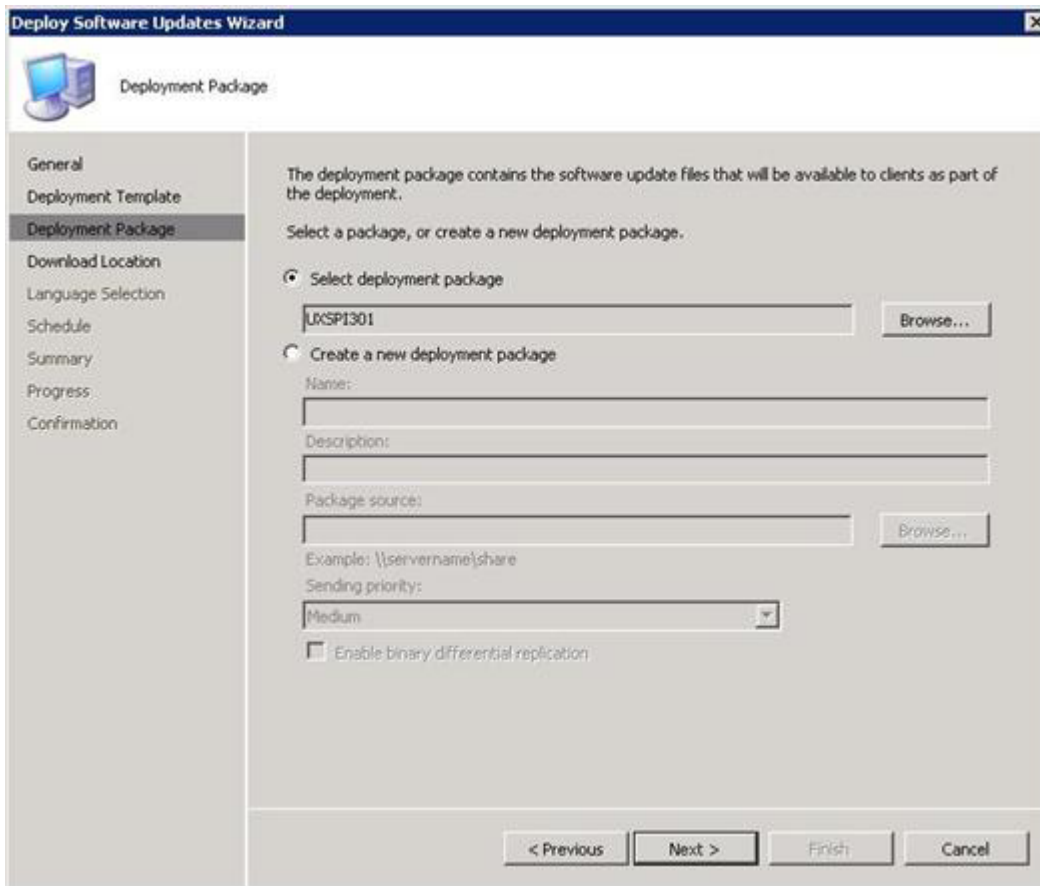
Figure 73. Selecting an existing UXSPI deployment package

2. Enter the following information and then click **Next**:

    a. In the **Name** field, enter a unique name.

    b. In the **Description** field, enter a detailed description that will help you to identify the software update deployment

Figure 74. Software updates - General

3. Click **Create a new deployment definition** or click **use an existing template**. Click **Next**.
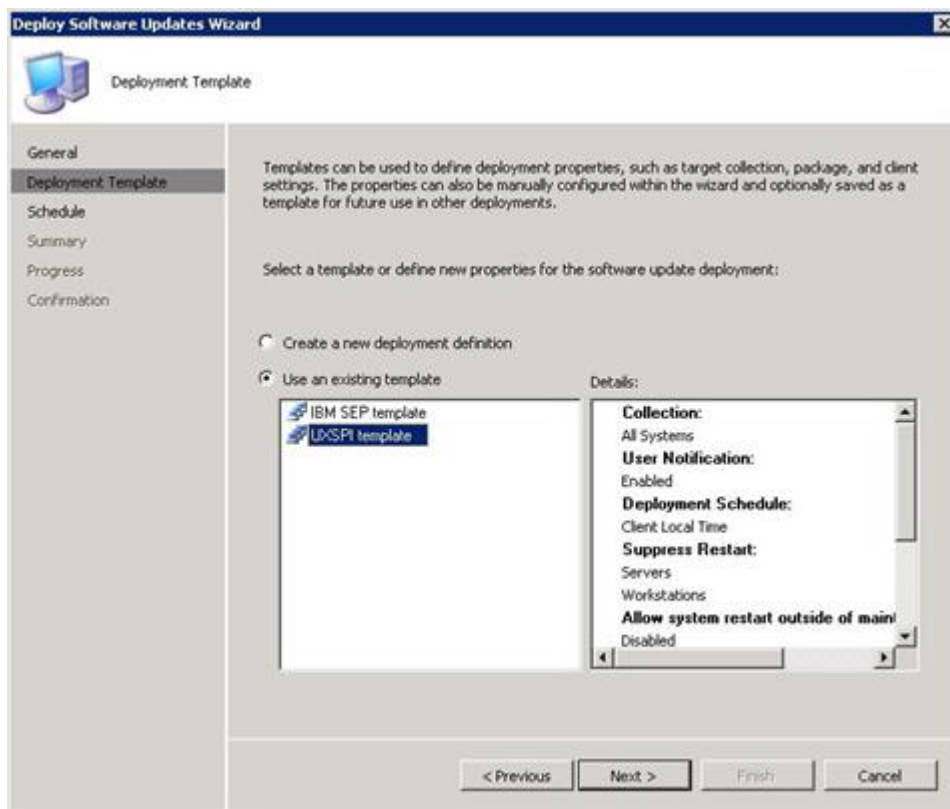
Figure 75. Selecting the UXSPI deployment template

4. Click **Select Deployment Package**, and **Browse** for an existing UXSPi deployment package.
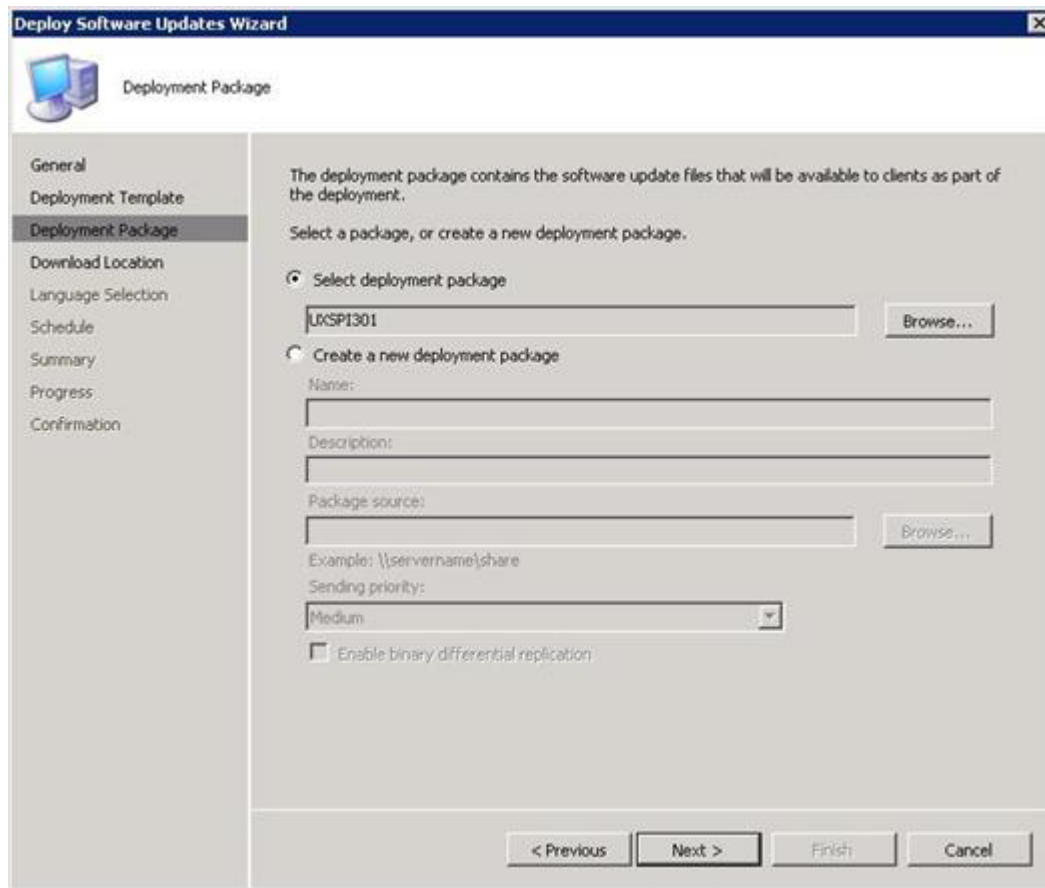
Figure 76. Selecting an existing UXSPI deployment package

5. For the remaining steps in this procedure, complete steps as described in "Deploy the IBM System Enablement Pack from the Microsoft System Center Configuration Manager server to Microsoft System Center Configuration Manager client" on page 65, from step 4.

Chapter 4. Working with Microsoft System Center Configuration Manager 2012

The topics in this section describe how to work with Microsoft System Center Configuration Manager 2012.

Synchronizing software updates

The following procedure describes how to synchronize software updates.

Before you begin

The System Center Configuration Manager server must already be setup and configured for the environment. For information about how to set up the System Center Configuration Manager server, see System Center 2012 Configuration Manager.

Procedure

1. Click **Start** > **All Programs** > **Microsoft System Center 2012** > **Configuration Manager** > **Configuration Manager Console** to launch the Configuration Manager Console.
2. In the left pane, expand **Software Library** > **Overview** > **Software Updates**. Under the Software Updates, right-click **All Software Updates** and select **Synchronize Software Updates**.
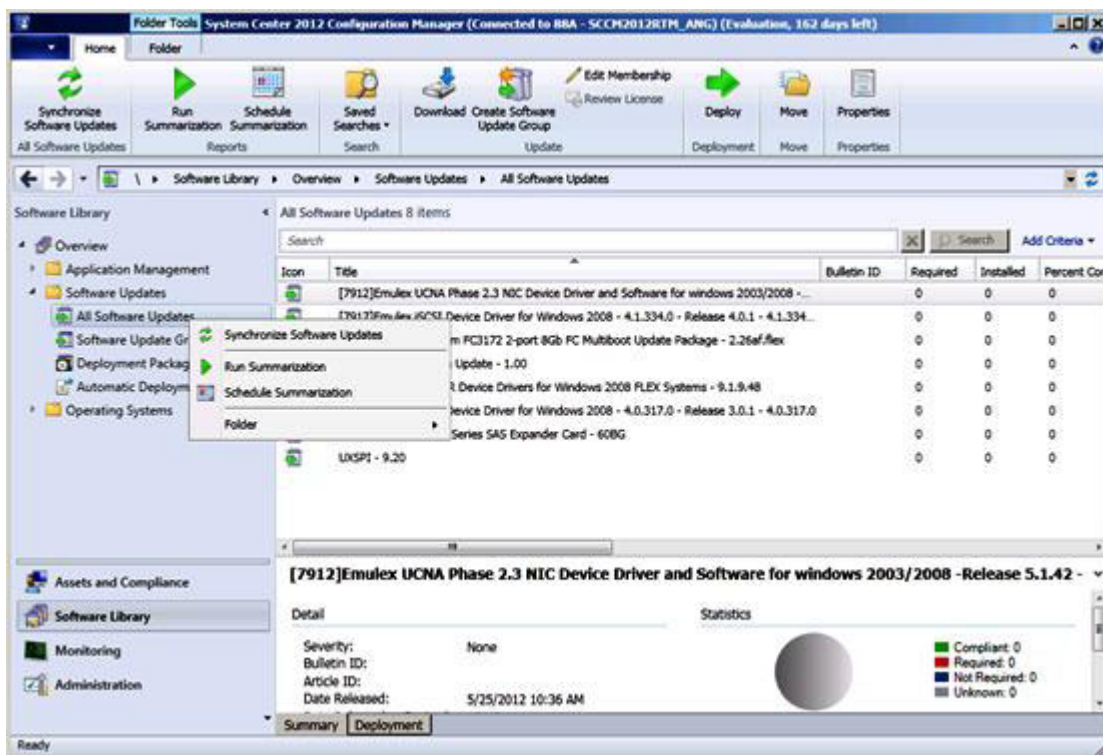
Figure 77. Synchronizing the Update Repository

3. Click **Yes** to initiate a site-wide software update synchronization. The synchronization process may take a few minutes to complete. There is no visual indication that the process has completed.

4. You can view the synchronization log to determine successful completion using the following steps:

   a. In the left pane, expand **Monitoring** > **System Status** > **Site Status**.

   b. Expand **site server** and click **Component Status**. The list of SCCM server components and their current status is displayed in the results pane.

   c. In the results pane, right-click to select **SMS_WSUS_SYNC_MANAGER** and click **Show Messages** > **All**. The SMS Status Message Viewer for the site server window is displayed with the status messages for the WSUS Sync Manager. Note the most recent message which indicates when the synchronization process started, was in progress, and that it completed.

5. After synchronization has successfully finished, refresh updates, by clicking the **Refresh** button of Navigation Bar.
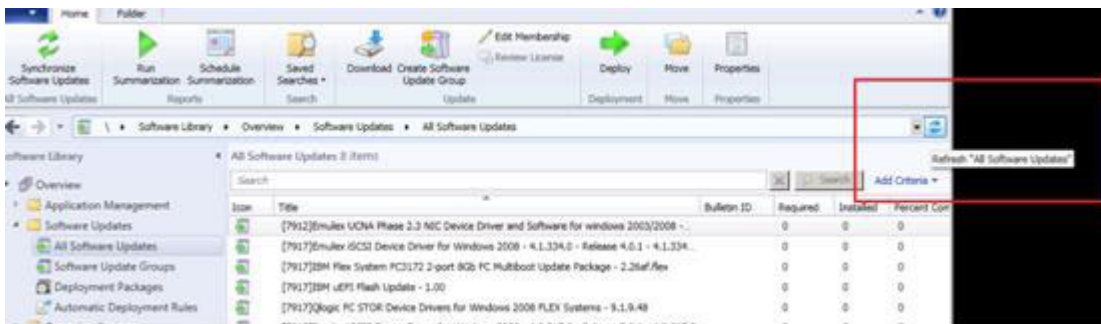
Figure 78. Refreshing updates

Viewing published updates

The following procedure describes how to view published updates.

About this task

This task is performed in the Configuration Manager Console.

Procedure

1. Click **Start** > **All Programs** > **Microsoft System Center 2012** > **Configuration Manager** > **Configuration Manager Console** to launch the Configuration Manager Console.

2. In the left pane, expand **Software Library** > **Overview** > **Software Updates**. Under the Software Updates, right-click **All Software Updates**.
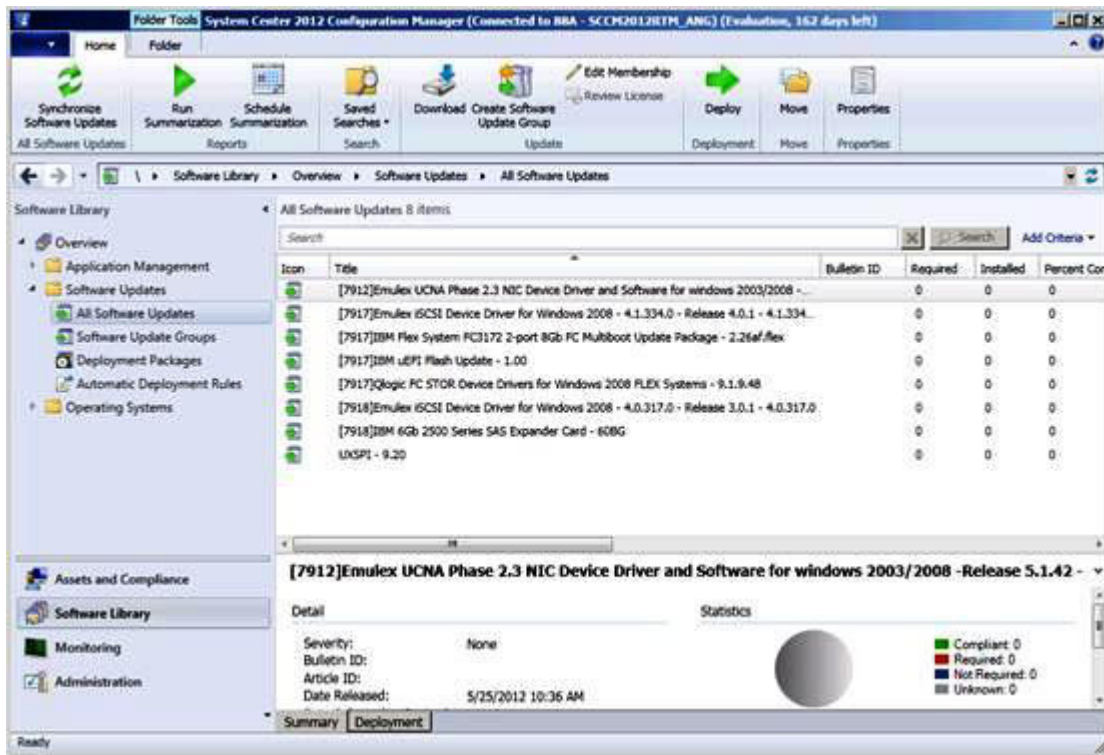
Figure 79. Viewing published updates

Results

After the updates have been deployed to their corresponding clients, the clients report to the site database on the next software update scan on client systems, indicating whether each update is applicable or installed for each client. The administrator can see the reported data and decide which updates need to be distributed based on the following information:

Installed
> Shows the number of clients reporting that the update has been installed.

Required
> Displays the number of clients reporting that the update is applicable and not yet installed or the installation status has not reached the site server database.

Not Required
> Shows the number of clients not applicable for an update.

Unknown
> Displays the number of clients that did not have a successful scan for the software update compliance or the scan result has not been reported back to the site server.

Important: The UXSPI package is a prerequisite to all other IBM updates. It should be deployed to client system before all of the other IBM updates. If the UXSPI package is not deployed on the client system, the other IBM updates will be marked as "Not Required" on that client system. If the target machine needs an SEP package, the SEP package should be deployed before the UXSPI package is deployed.

Chapter 4. Working with Microsoft System Center Configuration Manager 2012   **81**

After the UXSPI has been deployed successfully, if one update has not been deployed on the client system, the compliance result of this update will be marked as "Required".

Deploying IBM Updates in SCCM

Once the administrator determines which updates need to be distributed, the administrator selects the IBM updates and distributes them to client systems by creating deployment packages.

When clients of the targeted collections receive a new deployment from the management point, clients download software updates from a distribution point that has a deployment package containing the necessary software update binaries. The binaries are then installed on clients and the compliance status is reported to the site server.

The downloading and publishing phases are implemented by the IBM SUAP tool; the following phases are implemented on Microsoft SCCM. In the following section, the sequence previously used describes how to introduce the IBM System Updates for SCCM, version 3.2 solution.

Checking IBM updates deployment prerequisites

Perform the following procedure to check IBM updates deployment prerequisites.

About this task

This task is performed in the Configuration Manager Console.

Procedure

1. Click **Start** > **All Programs** > **Microsoft System Center 2012** > **Configuration Manager** > **Configuration Manager Console** to launch the Configuration Manager Console.
2. Click **Overview**. Click to select one or all of the following:
   - **Site Status**
   - **Component Status**
   - **Site Systems Status**
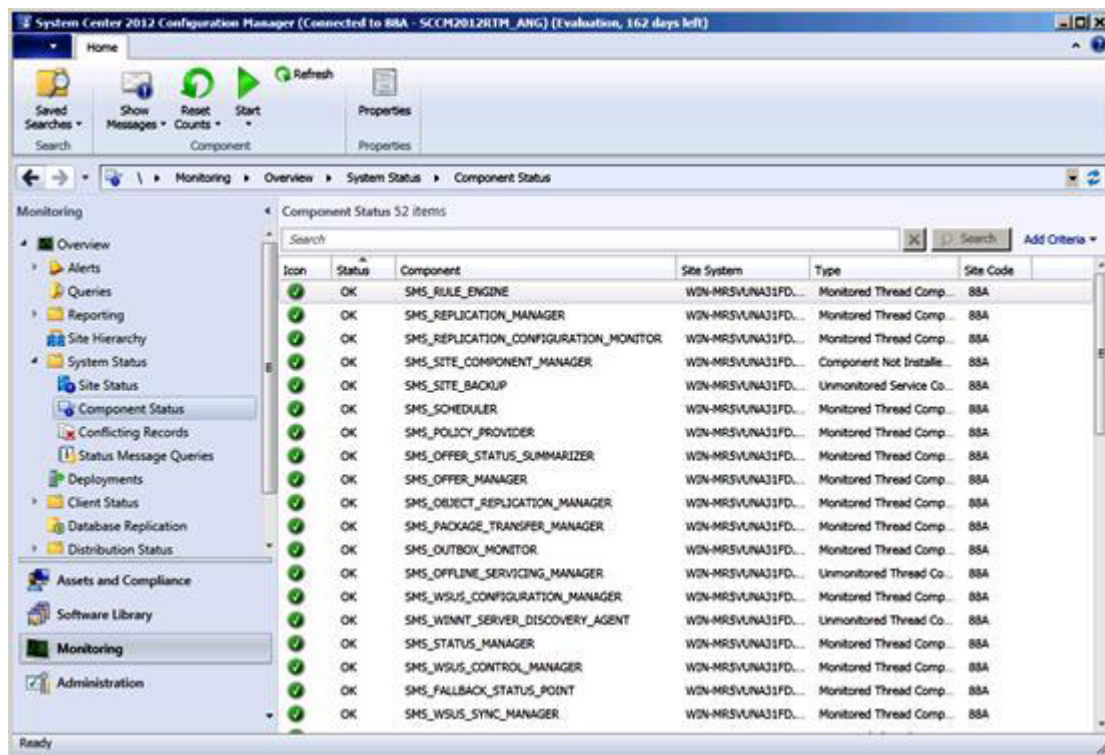
Figure 80. Component Status

If the status for Site Status, Component Status, and Site System Status are OK, the SCCM server status is normal.

Adding the System Update Point Role in SCCM

Perform the following steps to add the System Update Point Role.

About this task

This task is performed in the Configuration Manager Console.

Procedure

1. In the left panel, expand **Administration** > **Overview** > **Site Configuration** > **Configuration Manager** > **Servers and Site System Roles** > **%Site Name%**.
2. Right click the **Site Name**.
3. Select **Add Site System Roles**. The Add Site System Roles Wizard starts.
4. Click **Next**.
5. Select the **System Update Point** role.

6. Select the default setting to configure the system update service point.

   The Select a server to use a site system page opens. **Note to Reviewer: is this correct?**

Figure 81. Select a server to use as a site system

Configuring the system update service point

Perform the following steps to configure the system update service point

About this task

This task is performed in the Configuration Manager Console.

Procedure

1. Discover the client systems and install the management agent through the SCCM server. **Note to Reviewer: Do you think that more specific information here (explicit steps if available and necessary) would be helpful. Or refer to...**

2. Configure the WSUS self-signing certificate on the client systems. Ensure that the SCCM managed client system has the WSUS Publishers Self-signed Certificate in its Trusted Root Certification Authorities folder.

3. Check the Allow Signed Content from the intranet Microsoft update service Location on the SCCM Client using the Windows group policy editor. There are several methods for configuring the group policy on client computers.

4. There are several methods for configuring the group policy on client computers. Perform the following steps to configure the group policy on client computers.

   a. On the SCCM managed client operating system, click **Start** and select **Run**. Type **GPEDIT.MSC** and click **OK**.

   b. Expand **Computer Configuration** > **Administrative Templates** > **Windows Components** > **Windows Update**.
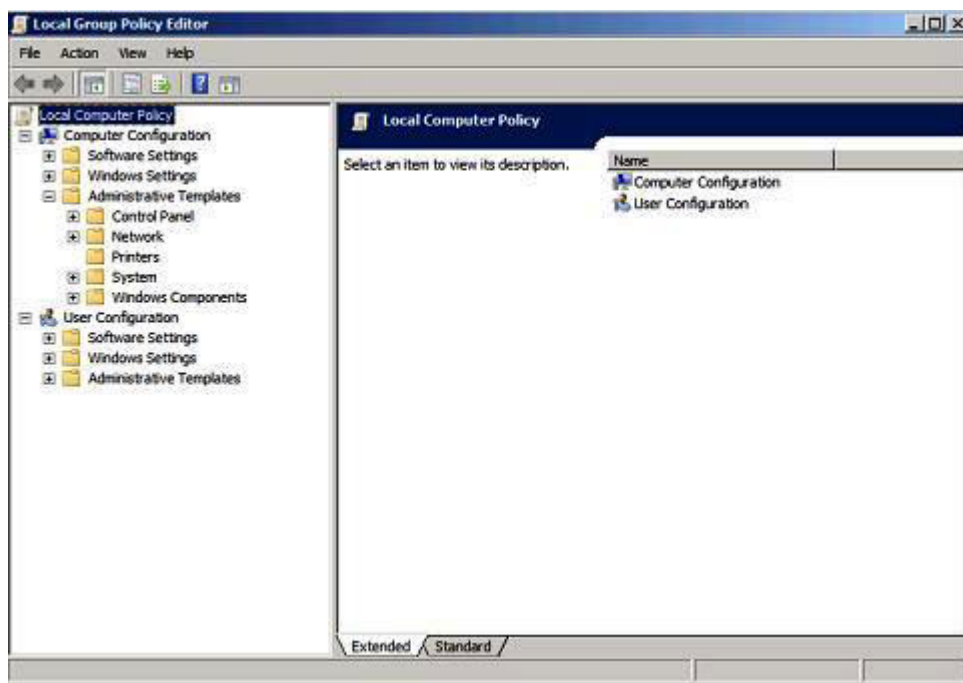
Figure 82. Local Computer Policy configuration

> **Note to Reviewer: There seems to be some missing information or a screen shot that is not displayed which corresponds with the steps. After Step 1, is the above figure automatically displayed or does something else take place first?**

   c. Double-click**Allow signed content from intranet Microsoft update service location**.
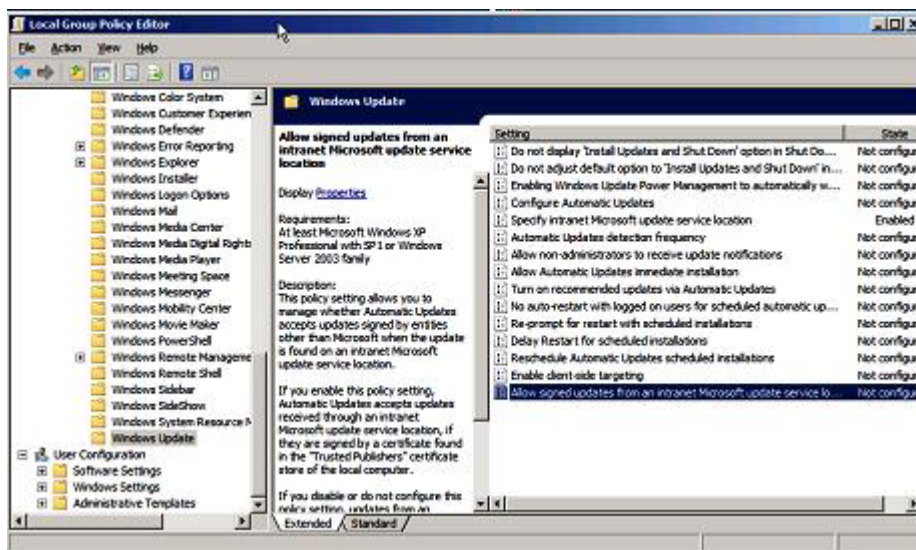
Figure 83. Allowing signed updates from an intranet Microsoft update service location

      d. Select **Enabled** and click **OK**.

      e. Close the Group Policy editor.

What to do next

Verify that .NET Framework 2.0 or higher is installed on the SCCM client before deploying IBM Updates to the SCCM client.

Deploying IBM SEP from the SCCM server to SCCM client

The System Enablement Pack (SEP) is a package that contains system-specific codes. It is used to support new System x and Blade server for DSA, firmware updates, and operating system deployment. If the target client relies on the SEP, it should deploy this package first. The following procedure describes how to deploy an IBM SEP package from the SCCM server to the SCCM client.

About this task

This task is performed in the Configuration Manager Console.

Procedure

1. Click **Start** > **All Programs** > **Microsoft System Center 2012** > **Configuration Manager** > **Configuration Manager Console** to launch the Configuration Manager Console.

2. Expand **Software Library** > **Overview** > **Software Updates** > **All Software Updates**.

3. In the right panel, right-click the **SEP to be deployed** and then select **Deploy**. The Deploy Software Updates Wizard opens.
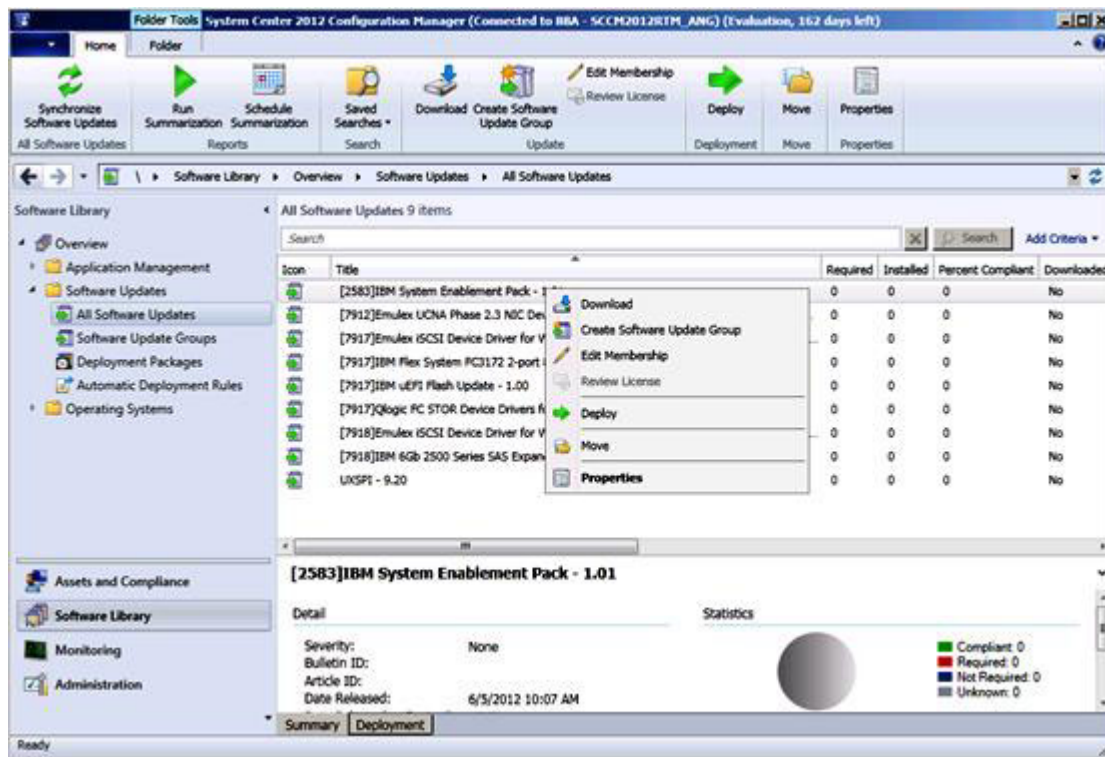
Figure 84. Deploy Software Updates

> **Note to Reviewer: Steps 3 opens the SW Updates Wizard? Or is step 3 what actually opens the Deploy Software Updates screen? If not, then what steps are completed so that the Deploy Software Updates screen is displayed which then prompts the user to enter the following info?**

4. Enter the following information:

   a. **Deployment Name**: Enter a unique name.

   b. **Description**: Enter a detailed description that will help you to identify the software update deployment

5. Click **Collection** and click **Next**.

Figure 85. Deploy Software Updates Wizard - General

6. Use the default settings or modify the settings for Scheduling, User Experience, Alerts and Download settings. Click **Next**. The Deployment Package page opens.
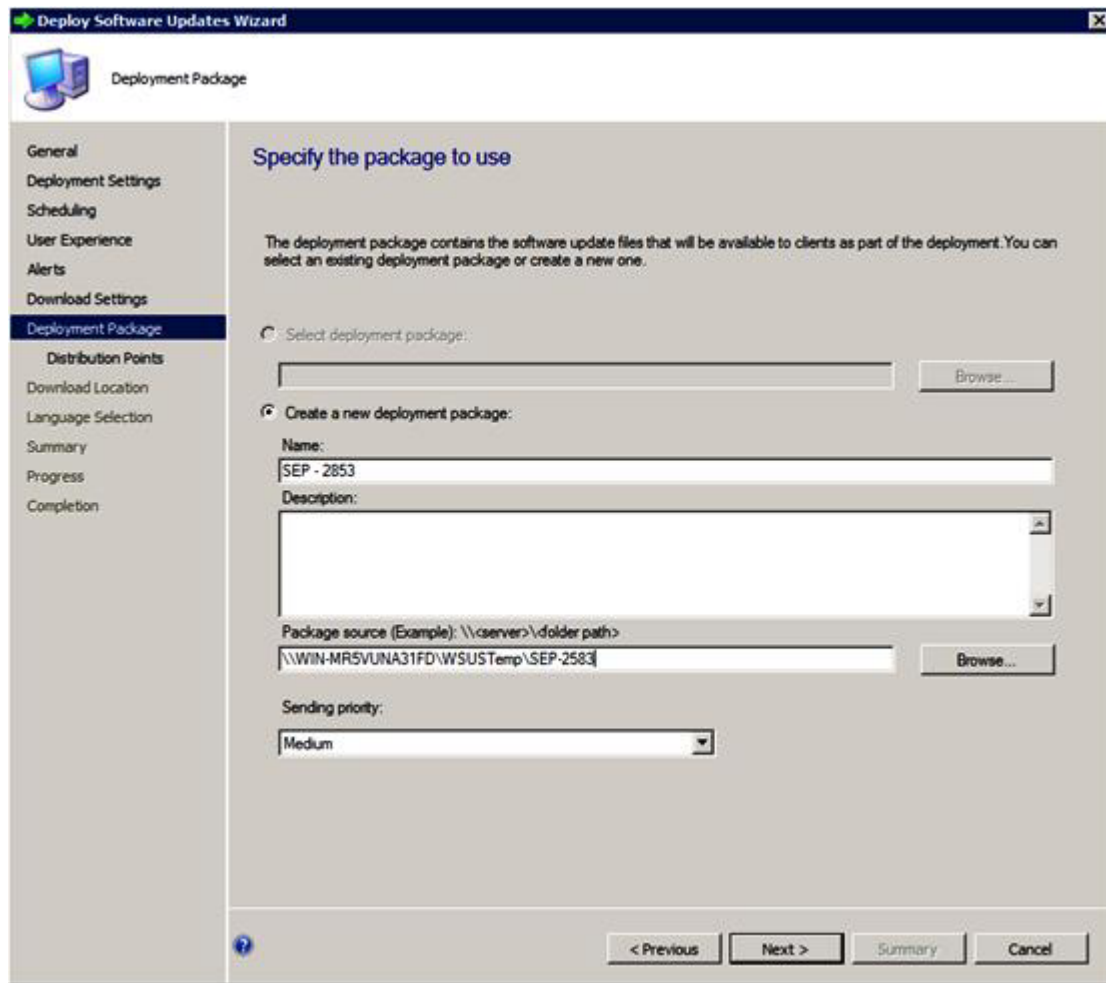
Figure 86. Deployment Package

7. On the Deployment Package, complete the following steps.

    a. Enter the **Name**: The name of the SEP.

    b. Browse to the Package source file location.

    c. Select **Priority**.

    d. Click **Next**.

The Distribution Point page opens.
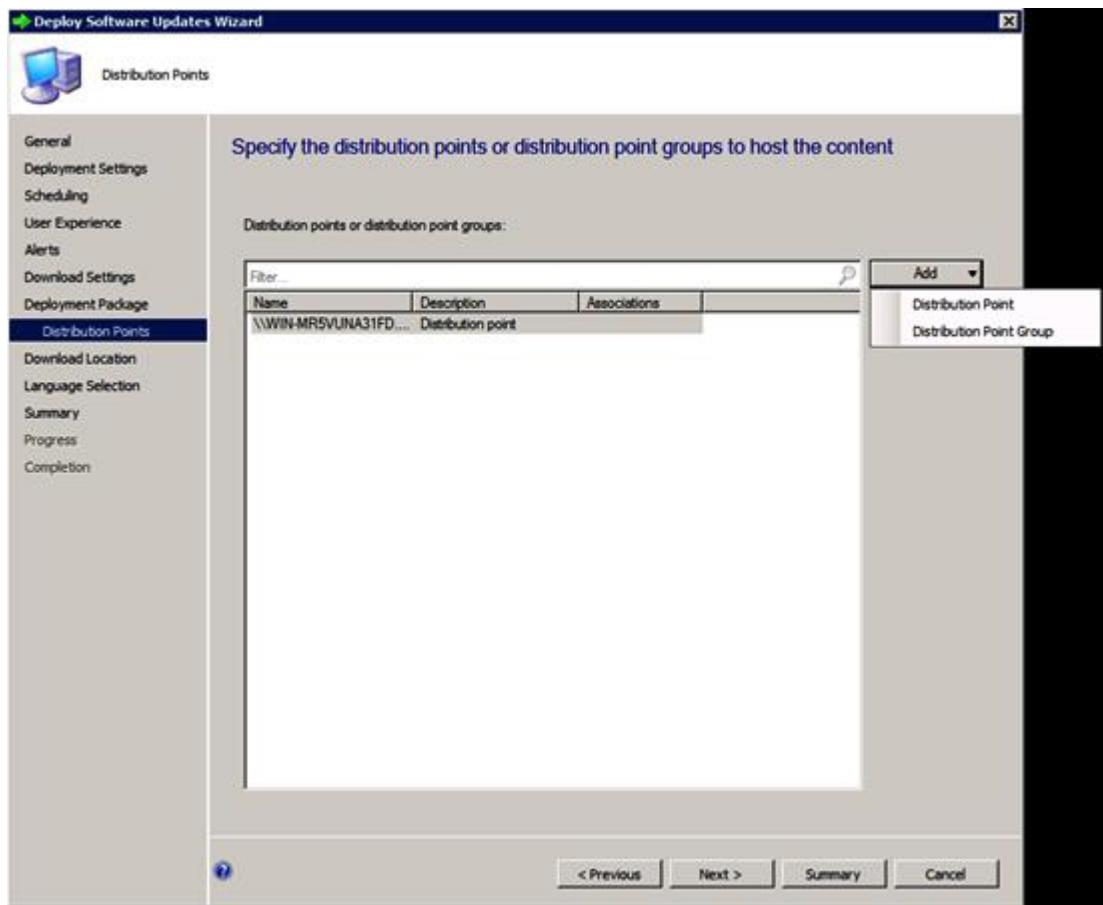
Figure 87. Distribution point

8. Click **Add** and select **Distribution point**. Click **Next**. The Deployment Location page opens.

9. Select **Download software updates from a location on my network**.

10. Browse to the software updates file location and click **Next**. The Language Selection page opens.

11. On the Language Selection page, use or modify the default settings for Language Selection and click **Next**. The Summary page opens.
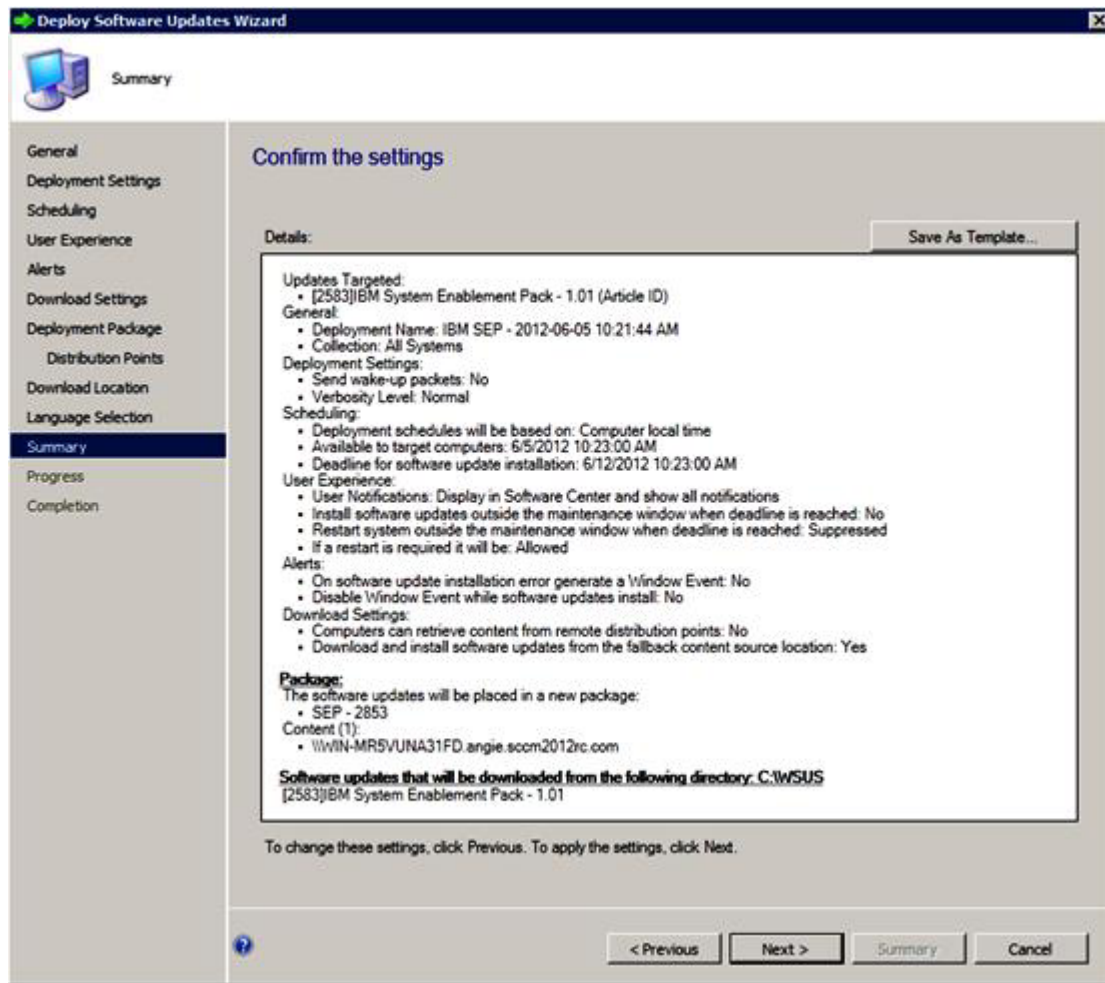
Figure 88. Deployment Software Updates Wizard summary

12. On the Summary page, click **Next** to deploy the software updates or click **Save as Template**. The Completion page opens.

13. Click **Close**.

Deploy IBM UXSPI from the SCCM server to the SCCM client

The UXSPI package is the prerequisite to all other IBM updates. It should be deployed to the client system before all of the other IBM updates. If the UXSPI is upgraded and any update are published to the WSUS server, the newer UXSPI replaces the old UXSPI (if any) on the SCCM server. The following scenarios explain different situations for deploying the package when it is upgraded to a newer UXSPI version.

Deploying IBM UXSPI from the SCCM server to the SCCM client when the old UXSPI is not deployed

The following procedure describes how to deploy the IBM UXSPI package from the SCCM server to the SCCM client when the old UXSPI package is not deployed.

About this task

This task is performed in the Configuration Manager Console.

Procedure

1. Click **Start** > **All Programs** > **Microsoft System Center 2012** > **Configuration Manager** > **Configuration Manager Console** to launch the Configuration Manager Console.
2. In the UXSPI machine folder, right-click **UXSPI** and select **Deploy**.
3. For the remaining steps, see "Deploying IBM SEP from the SCCM server to SCCM client" on page 86 and complete steps 4 to 13.

Deploying IBM UXSDPI from the SCCM server to the SCCM client when the old UXSPI is deployed

The following topics describe how to deploy the IBM UXSPI package from the SCCM server to the SCCM client if the UXSPI is upgraded and the old UXSPI package is deployed. There are three methods. In this release, Method 2 is recommended.

Method 1: Deploying an IBM UXSPI package from the SCCM server to the SCCM client

Method 1 deletes the old UXSPI deployment advertisement and deployment package and then creates a new UXSPI deployment package. The following procedure describes how to deploy IBM UXSPI package from SCCM server to SCCM client using method 1.

About this task

This task is performed in the Configuration Manager Console.

Procedure

1. Click **Start** > **All Programs** > **Microsoft System Center 2012** > **Configuration Manager** > **Configuration Manager Console** to launch the Configuration Manager Console.
2. In the left pane, expand **Software Library** > **Overview** > **Deployment Packages**. The Deployment Packages page opens.

Figure 89. Deleting the old UXSPI advertisement

3. In the Deployment Packages pane, right-click the old UXSPI deployment package and select **Delete**.
4. From the UXSPI machine category, right-click the UXSPI to be deployed and select **Deploy**.
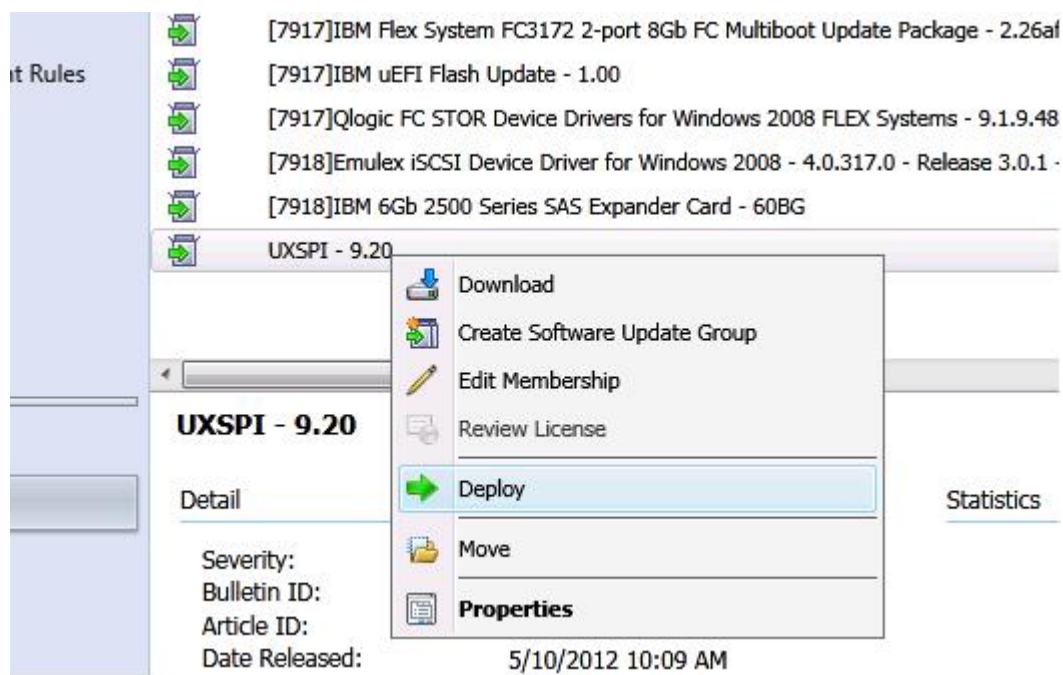
Figure 90. Deploying the UXSPI software package

5. Complete steps 4 to 13 as described in "Deploying IBM SEP from the SCCM server to SCCM client" on page 86.

Method 2: Deploying a new UXSPI package to coexist with the old UXSPI package

Method 2 deploys the new UXSPI package without deleting the existing UXSPI package. The following procedure describes how to deploy a new IBM UXSPI package to coexist with an old UXSPI package.

About this task

This task is performed in the Configuration Manager Console.

Procedure

1. Click **Start** > **All Programs** > **Microsoft System Center 2012** > **Configuration Manager** > **Configuration Manager Console** to launch the Configuration Manager Console.
2. In the left pane, expand **Software Library** > **Overview** > **Deployment Packages**. The Deployment Packages page opens.
3. From the UXSPI machine category, right-click the UXSPI to be deployed and select **Deploy**. This action is displayed in the following figure.
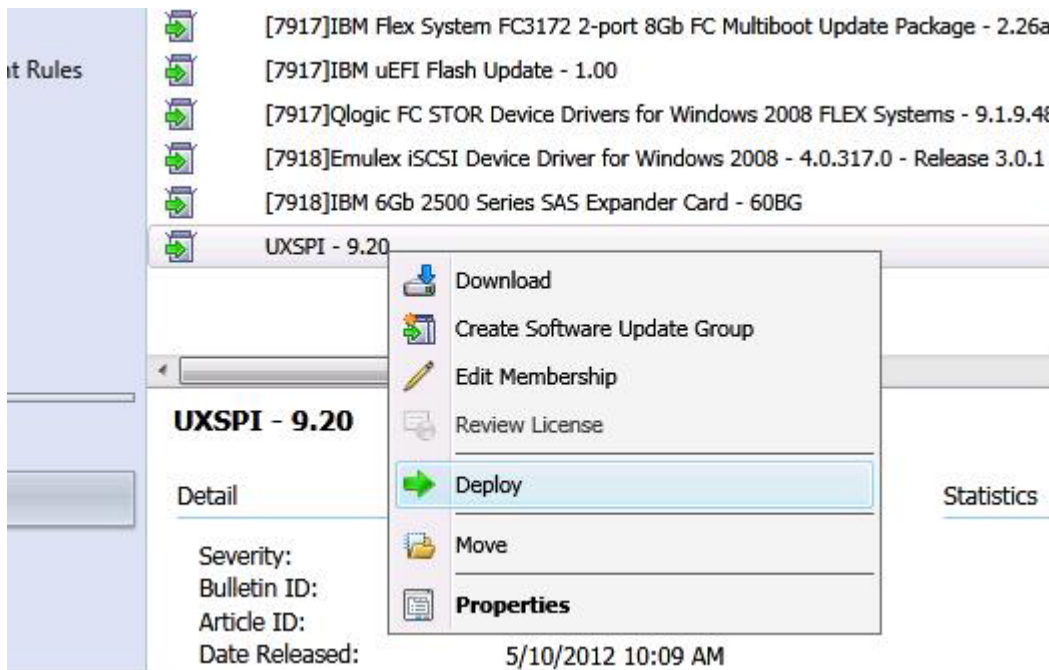
Figure 91. Deploying the UXSPI software package

4. Complete steps 4 to 13 in the "Deploying IBM SEP from the SCCM server to SCCM client" on page 86 section.

Method 3: Adding a new UXSPI package to an existing UXSPI deployment package

Method 3 adds a new UXSPI package to an existing UXSPI deployment package. The following procedure describes how to add the new IBM UXSPI package.

About this task

This task is performed in the Configuration Manager Console.

Procedure

1. Click **Start** > **All Programs** > **Microsoft System Center 2012** > **Configuration Manager** > **Configuration Manager Console** to launch the Configuration Manager Console.
2. In the left pane, expand **Software Library** > **Overview** > **Deployment Packages**.
3. From the UXSPI machine category, right-click the UXSPI to be deployed and select **Deploy**. This action is displayed in the following figure.
   The General page opens.
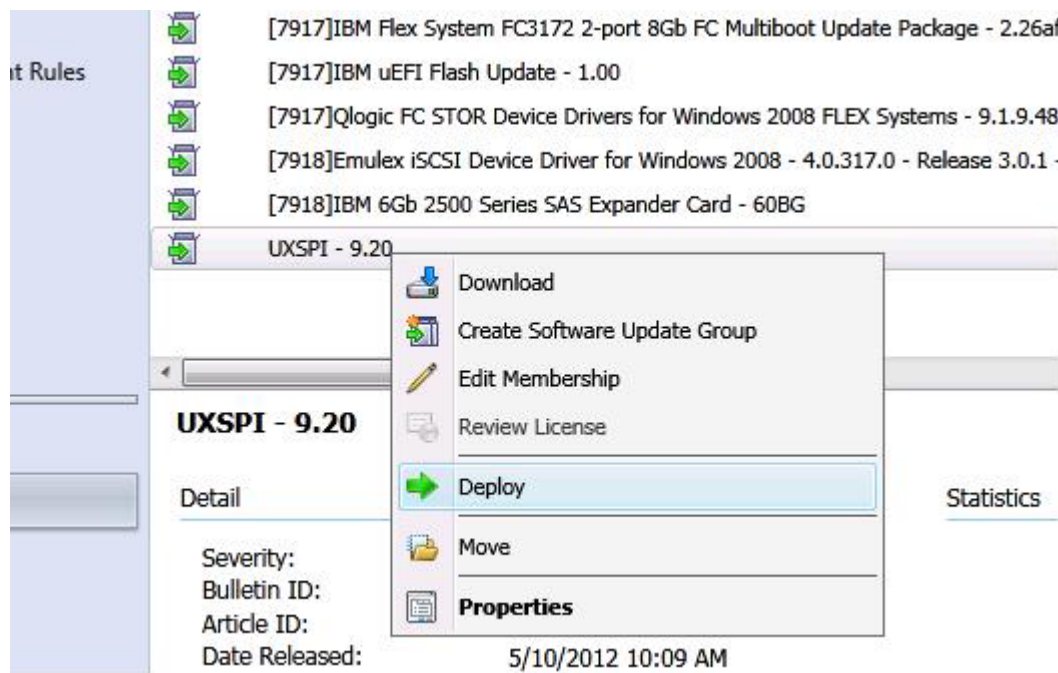
Figure 92. Selecting an existing UXSPI deployment package
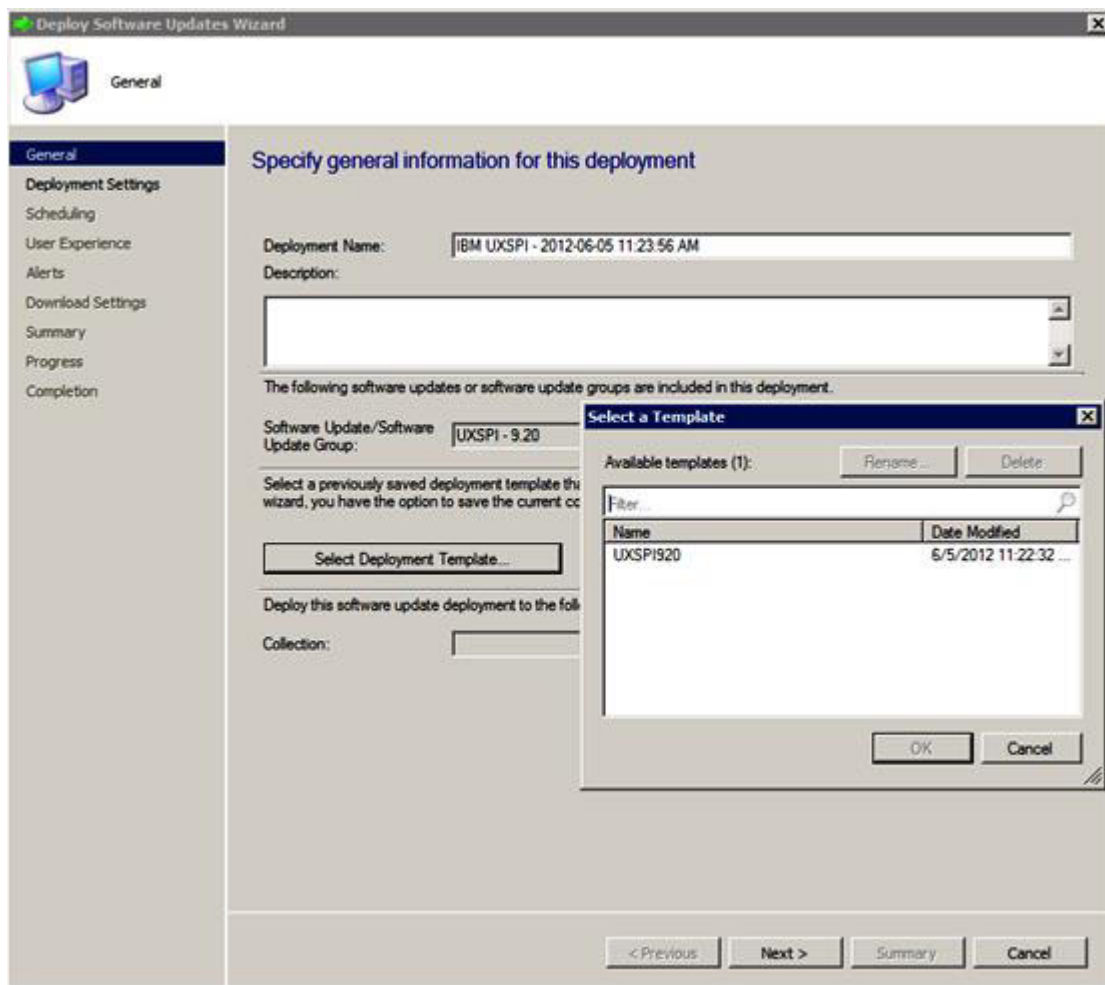
Figure 93. Software updates using Template

4. Enter the following information for this deployment.

    a. **Name**: Enter a unique name

    b. **Description**: Enter a detailed description that will help you to identify the software update deployment.

5. Click **Next**. The Summary page opens.
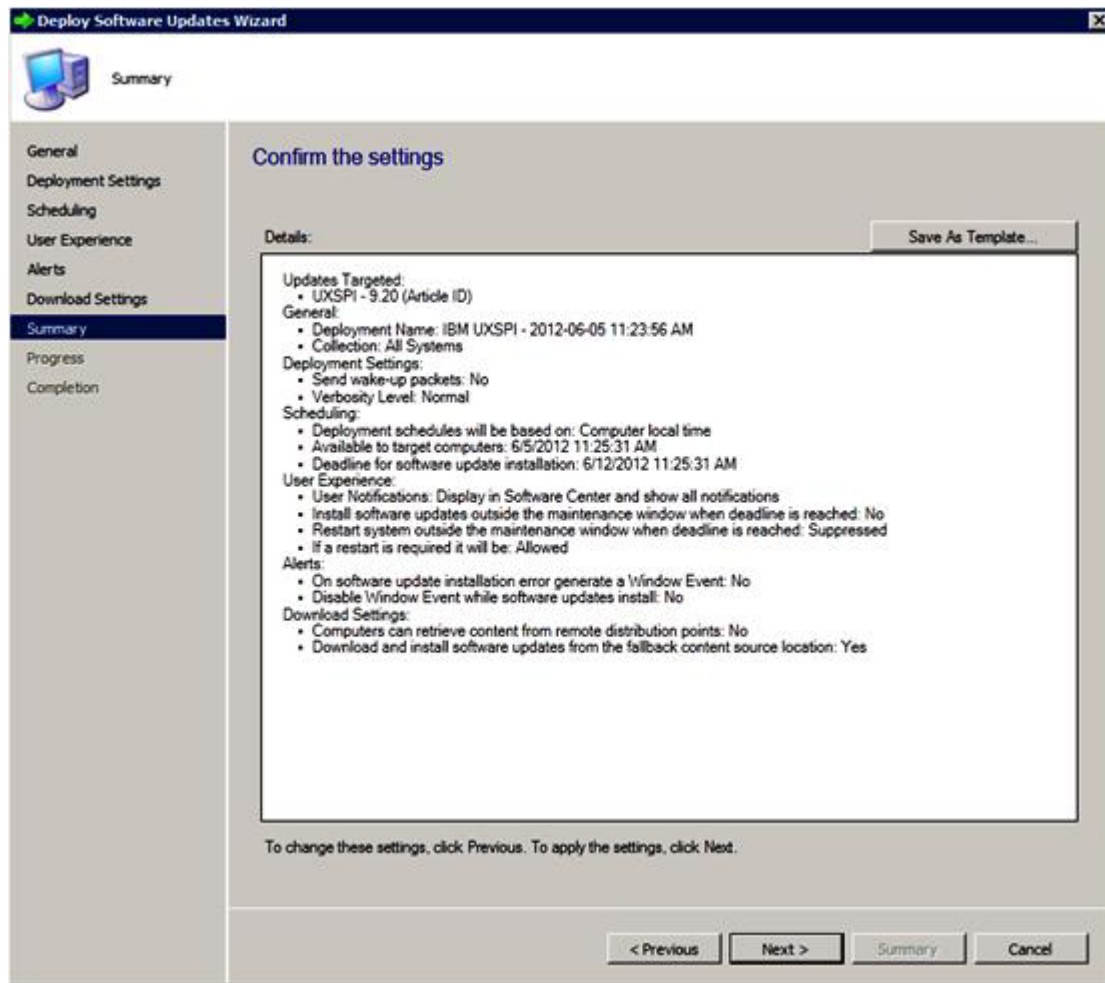
Figure 94. Software updates using Template

6. Click **Summary** to use the template settings or click **Next** to modify the settings. For more information about this step, see "Deploy IBM UXSPI from the SCCM server to the SCCM client" on page 91.

Deploying IBM updates from the SCCM server to the SCCM client

The following procedure describes how to deploy IBM updates from the SCCM server to the SCCM client.

About this task

This task is performed in the Configuration Manager Console.

Procedure

1. Click **Start** > **All Programs** > **Microsoft System Center 2012** > **Configuration Manager** > **Configuration Manager Console** to launch the Configuration Manager Console.

2. In the left pane, expand **Software Library** > **Overview** > **Deployment Packages**.

3. Right-click the updates to be deployed and select **Deploy Software Updates**. This action is displayed in the following figure.
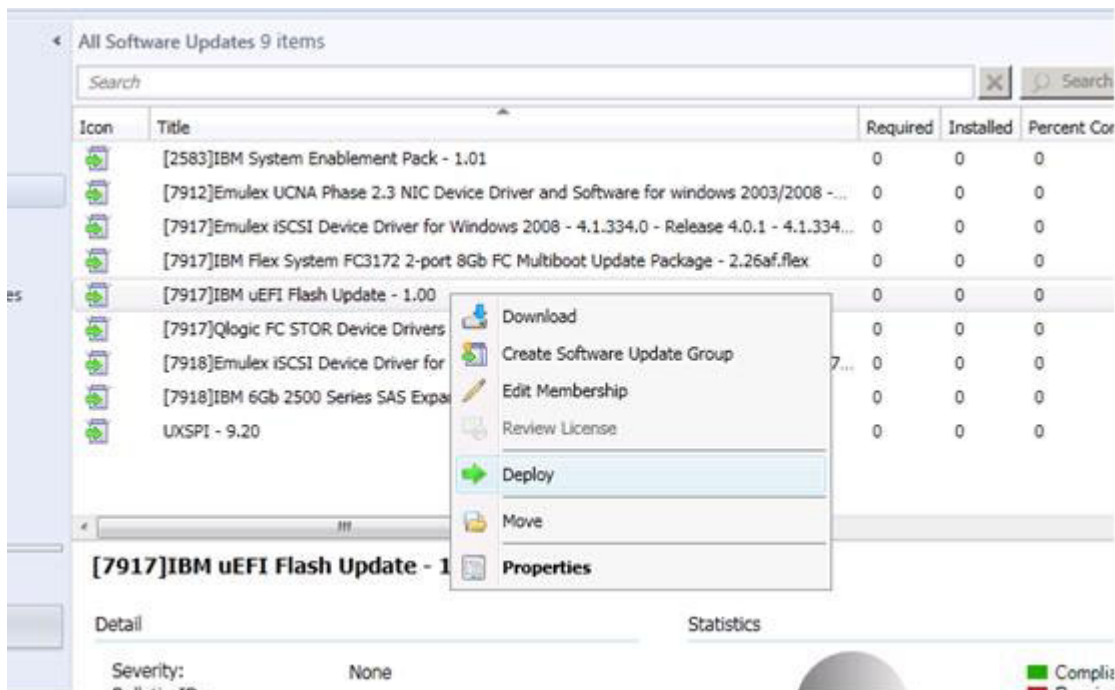
Figure 95. Deploying IBM updates from the SCCM server to the SCCM client

4. Complete steps 4 to 13 as described in "Deploying IBM SEP from the SCCM server to SCCM client" on page 86.

Chapter 5. Supported hardware and software

The topics in this section describe the hardware and software that is supported by IBM System Updates for Microsoft System Center Configuration Manager, v3.2.

Supported Microsoft System Center Products

IBM System Updates for Microsoft System Center Configuration Manager, v3.2 Solution supports the following Microsoft System Center Products:

- Microsoft System Center Configuration Manager R2
- Microsoft System Center Configuration Manager SP2
- Microsoft System Center Configuration Manager 2012

Supported client systems

This topic provides information about the supported client systems for IBM System Updates.

Supported systems

Table 2. Supported Systems

Product family name	Machine type
IBM System x3100 M4	2582
IBM System x3200 M2	4367, 4368
IBM System x3200 M3	7327, 7328
IBM System x3250 M3	4251, 4252, 4261
IBM System x3250 M4	2583
IBM System x3400 M2	7836, 7837
IBM System x3400 M3	7378, 7379
IBM System x3500	7977
IBM System x3500 M2	7839
IBM System x3530 M4	7160
IBM System x3550	7978, 1913
IBM System x3550 M2	4198, 7946
IBM System x3550 M3	4254, 7944
IBM System x3620 M3	7376
IBM System x3630 M3	7377
IBM System x3630 M4	7148
IBM System x3650	7979, 1914
IBM System x3650 M2	7947, 4199
IBM System x3650 M3	4255, 7945
IBM System x3690 X5	7192, 7147
IBM System x3690 X5	7148, 7149
IBM System x3750 M4	8722, 8733

Table 2. Supported Systems (continued)

Product family name	Machine type
IBM System x3755	7163
IBM System x3755 M3	7164
IBM System x3850	8864, 7365, 7362
IBM System x3850 M2	7141, 7144, 7233, 7234
IBM System x3850 X5	7145, 7146, 7191, 7143
IBM System x3950 M2	7141, 7144, 7233, 7234
IBM System x3950 M2 Dual node	7141, 7233, 7234
IBM System x3950 M2 3-4 node	7141, 7233, 7234
IBM System x3950 X5	7145, 7146
IBM BladeCenter HS20	1883, 8843
IBM BladeCenter HS21	1885, 8853
IBM BladeCenter HS22	7870, 1936, 1911
IBM BladeCenter HS22V	1949, 7871
IBM BladeCenter HS23E	8038, 8039
IBM BladeCenter HX5	1910, 7873
IBM BladeCenter LS21	7971
IBM BladeCenter LS22	7901
IBM BladeCenter LS42	7902
IBM Flex System x220 Compute Node	7906, 2585
IBM Flex System x240 Compute Node	8737, 8738, 7863

Supported operating systems

The following Windows operating systems are supported on client machines:

- Windows Server 2003 SP2/R2
- Windows Server 2003 SP2/R2 x64
- Windows Server 2008 SP1/SP2
- Windows Server 2008 SP1/SP2 x64
- Windows Server 2008 R2 SP1

Required software on client machines

Microsoft .NET Framework 2.0

Appendix A. Troubleshooting

The topics in this section will assist you with troubleshooting.

How to configure the SUAP log

You can change the value of the log level for the IBM System Updates Acquisition and Publishing tool on both the IBM System Updates Acquisition and Publishing host machine and SCCM Clients machines.

The IBM System Updates Acquisition and Publishing tool uses the following registry key to record the log level:
- **[HKEY_LOCAL_MACHINE\SOFTWARE\IBM\Systems Management Integrations\Log]**
- **LogLevel=Info**

The available "LogLevel" values are: Debug, Info, Warn, Error, and Fatal.

By default, the "Info" level is used.

Download Updates from the IBM website failed

This topic provides a possible solution for troubleshooting why download updates may have failed.

Issue: Download failed.

Possible Solution: Please check to see if the IBM System Updates Acquisition and Publishing tool can connect to the IBM update repository server using a web browser and connecting to: Fix Central.
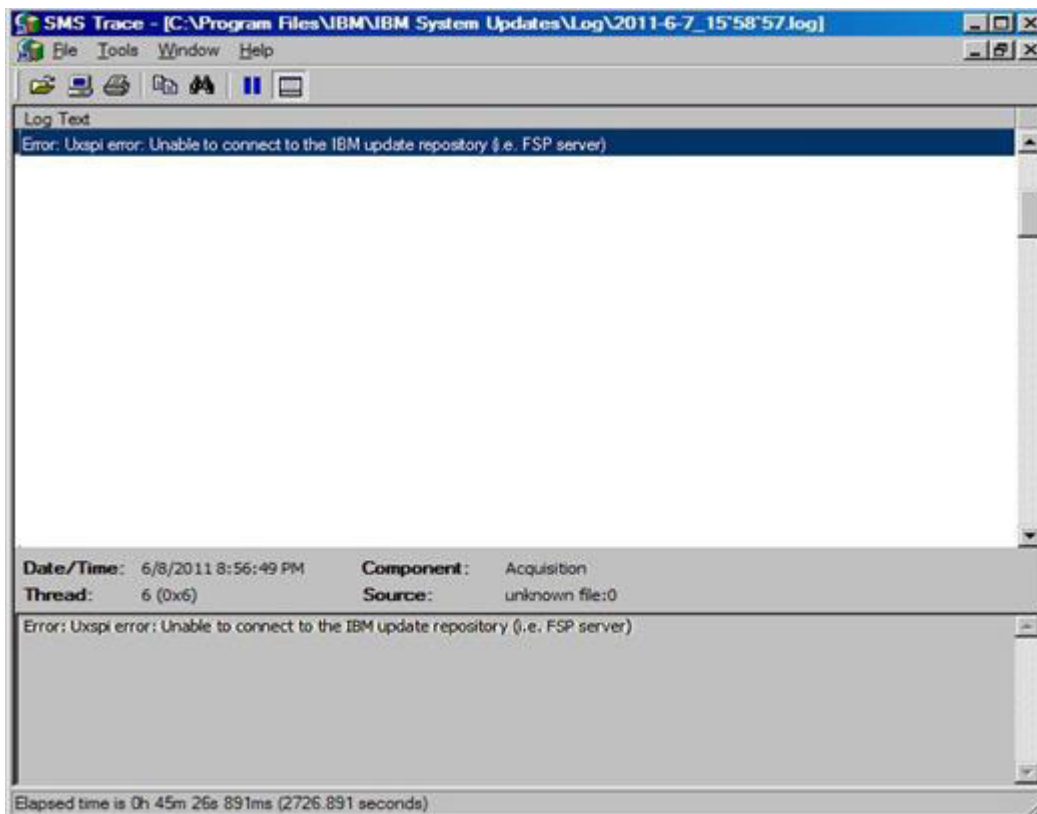
Figure 96. Unable to connect to the IBM update repository error

Tip: For more information, see the SUAP log files located at: `%SystemDrive%\Program Files\IBM\IBM System Updates\Log`.

Updates fail to publish from the IBM System Updates Acquisition and Publishing to Windows Server Update Services

Issue: Updates fail to publish from the IBM System Updates Acquisition and Publishing to Windows Server Update Services.

Possible Solution: Check the SUAP log file located at: `%SystemDrive%\Program Files\IBM\IBM System Updates\Log`.

Updates fail to publish from IBM System Updates Acquisition and Publishing to Windows Server Update Services due to a verification of the file signature failed error

Issue: IBM System Updates Acquisition and Publishing failed to publish updates to Windows Server Update Services due to a verification of file signature failed error.
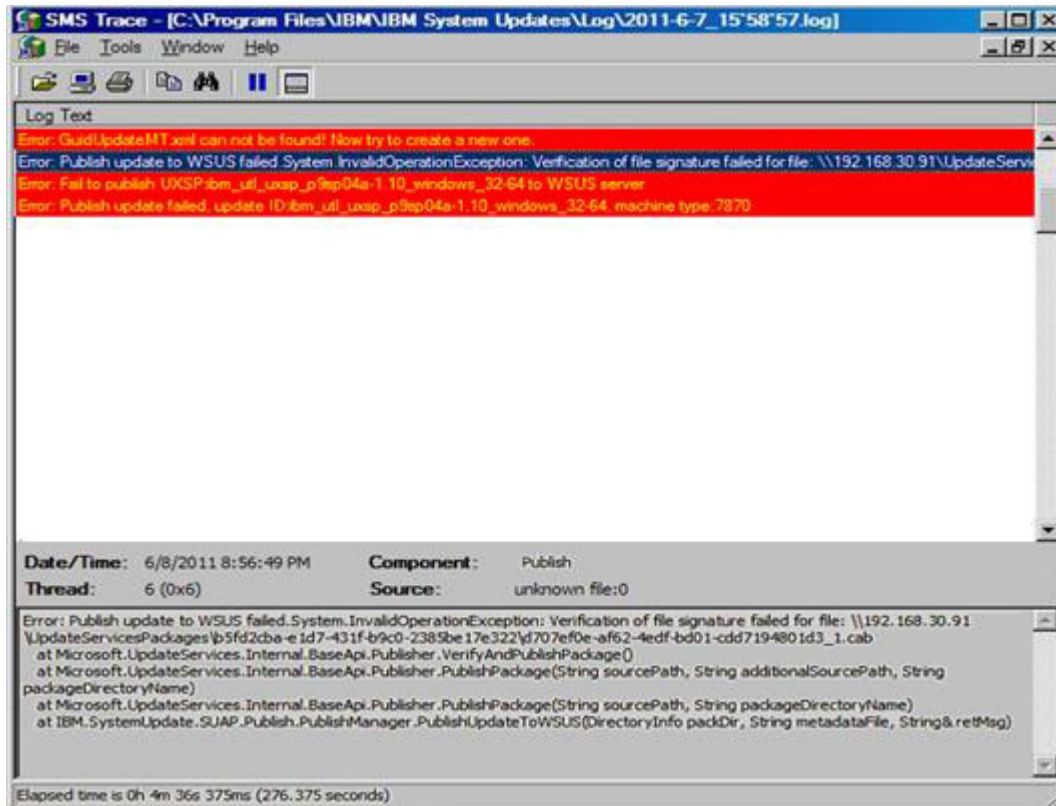
Figure 97. Failure to verify the file signature

Ensure that the WSUS Publishers Self-signed Certificate was copied to the Trusted Root Certification Authorities as outlined in the Setup Wizard section.

Updates fail due to the SSL connection failing

Issue: While using SSL to publish updates from an IBM System Updates Acquisition and Publishing computer to a Windows Server Update Services server, the following error is displayed:
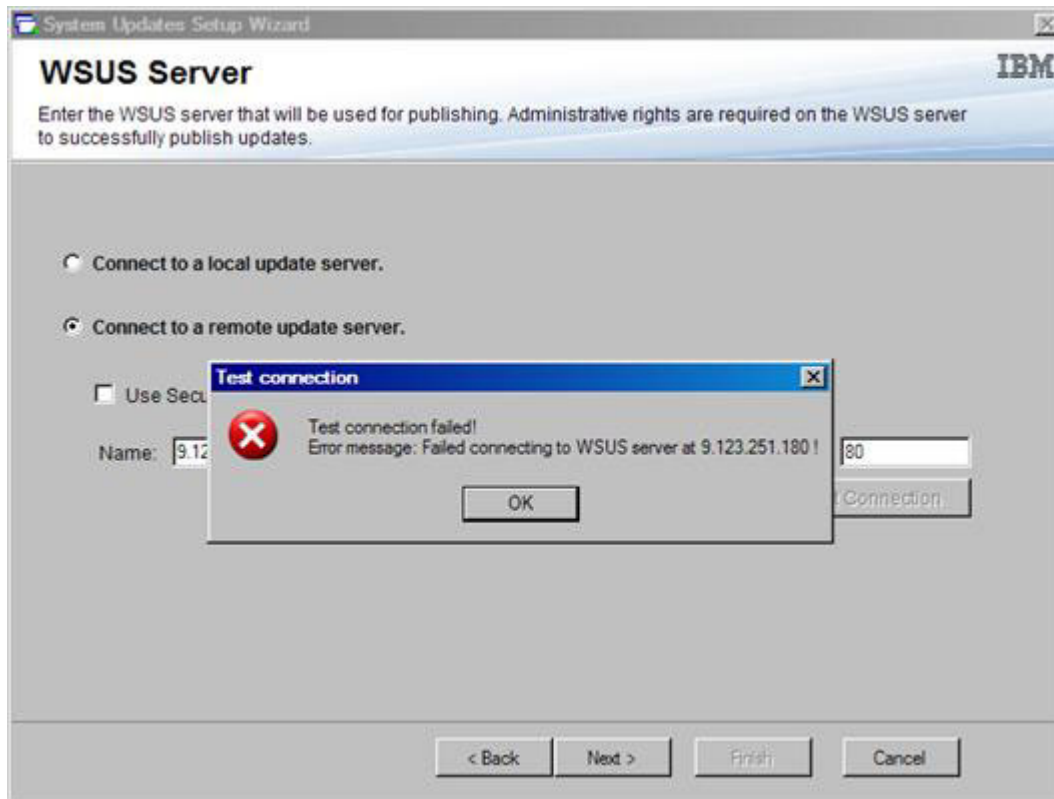
Figure 98. Connection to WSUS server failure message

Possible Solution: Configure the SSL as described in the Setup Wizard section, or publish without using the SSL feature.

Changing the log level value in registry fails to take effect while the IBM System Updates Acquisition and Publishing tool is running

Issue: If the log level value is changed while IBM System Updates Acquisition and Publishing is running, the new value does not take effect immediately.

Possible Solution: Close the IBM System Updates Acquisition and Publishing tool, and launch it again for the changes to take effect.

Updates fail to deploy from the Microsoft System Center Configuration Manager server to the Microsoft System Center Configuration Manager client

Issue: Updates fail to deploy from the SCCM server to the SCCM Client.

Possible Solution:
- Extend the Windows Update Error level in the registry.
- Add the following values to the registry key:
    1. Value name: **Flags**
        - Value type: **REG_DWORD**
        - Value data: **00000007**
    2. Value name: **Level**
        - Value type: **REG_DWORD**
        - Value data: **00000004**

This registry key turns on extended tracing to the `%systemroot%\Windowsupdate.log` file.
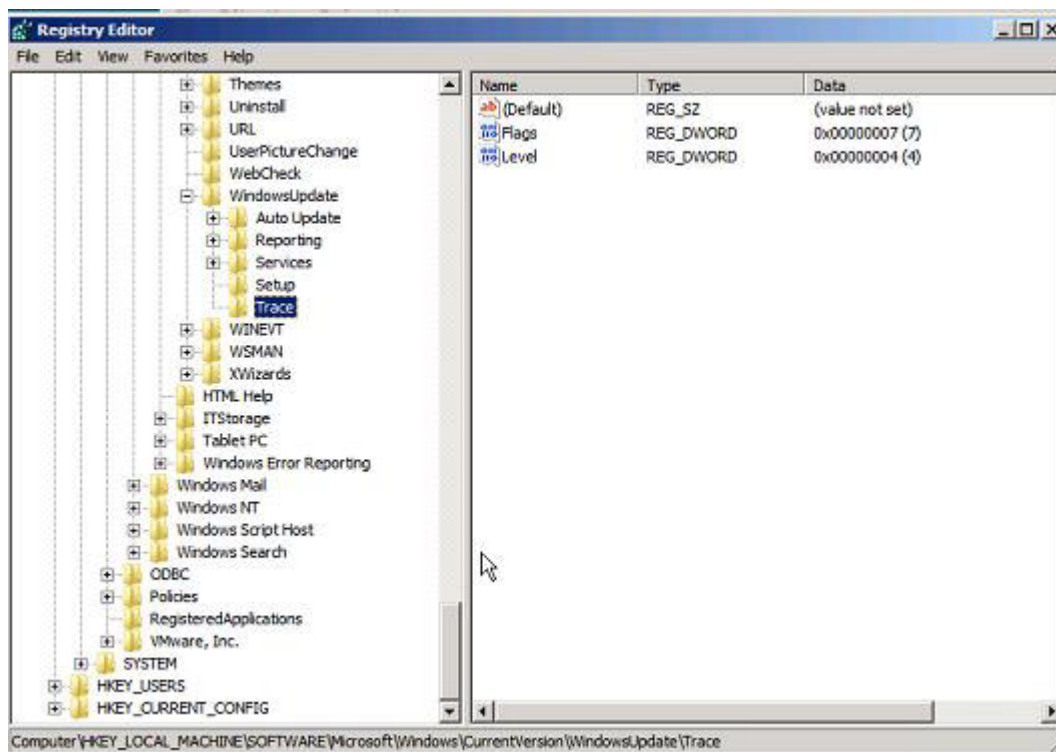
Figure 99. Changing the trace registry key

- Check the `%systemroot%\Windowsupdate.log` file to get detailed information about the failure.

Updates fail to deploy to the Microsoft System Center Configuration Manager client due to a firewall restriction

Issue: Updates fails to deploy to the SCCM client due to a firewall restriction.

Possible Solution: Open the corresponding port in Windows Firewall for the SCCM relative URL.

Update fails to install on client machine

Use this topic for troubleshooting why an update fails to install on a client machine.

Before you begin

If an update fails on a client system, the result can be checked in two ways:
- Navigate to the directory containing the log file: `C:\ibm_support\SUAP\ %update_id%\result.txt`.
- Check the result in the log file.

About this task

The result.txt log file is generated by UXSPi, and contains the detail information about the update process.

Procedure

1. If the operating system on the client system is Windows 2008, check the update history to get more information.
2. Open **update history view** from **Start** > **Windows Update** > **View update history**.
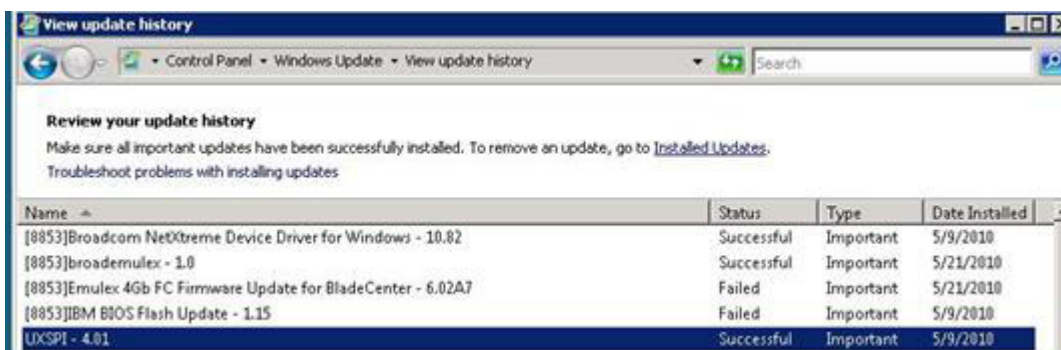
Figure 100. Viewing update history on client system

3. 3. Right-click **Update** and select **View Detail**. The details contain an error details code.
4. Locate the explanation for the error detail code in the following table.

Table 3. Error Detail codes

Return Code for Hex	Return Code for Decimal	Explanation
0	0	Success (individual update or UXSP).
0xB	11	The individual update is not applicable to this system configuration. For example, the required hardware is not present on the system.
0xC	12	No updates are selected to be installed. For example, the individual update is older than the installed version in the target system.
0xD	13	Prerequisites for this individual update are not met. These prerequisites for example would include not having the required software installed or the hardware is not configured correctly.
0xE	14	The individual update fails for other reason.
0x18	24	The UXSP fails on target machine. Such as, some updates does not install for other reasons.

Updates for QLogic may be not installed by default

Use this topic for troubleshooting why updates for QLogic may not be installed by default.

Issue: Updates for QLogic may be not installed by default even if the version is newer than the installed version.

Possible Solution: You can check the **Also select Host Bus Adapters (HBA) and Coverged Network Adapter (CNA)** checkbox in the Publish Wizard for **Confirm Updates packages**, or you can try to install the update manually.
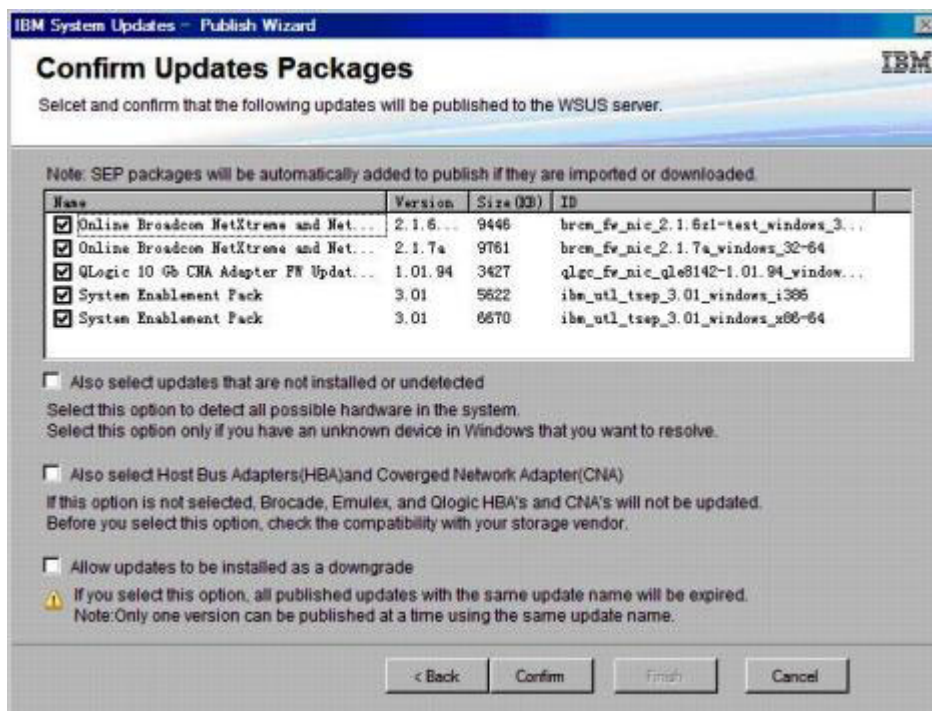
Figure 101. Publish Wizard Confirm Updates Packages

Some updates may require restarting the client server to complete the installation

Use this topic for troubleshooting why some updates may require restarting the client server in order to complete the installation.

Issue: If the IBM UpdateXpress System Pack Installer installation fails for any reason, when installation has completed, the installation window will show "Failed" results. Some of the updates may have been installed already and require restarting the client server so that update installation is completed.

Possible Solution: You can review the up_result.xml file to see if the client server needs to be restarted.

Windows Updates notification is very slow to appear on the Microsoft System Center Configuration Manager client

Use this topic for troubleshooting why Windows Updates notification is very slow to appear on the SCCM client.

Issue: The Windows Updates page is very slow to appear on the SCCM client.

Possible Solution:
1. Open the Control Panel. There should be several SCCM Agent relative components.
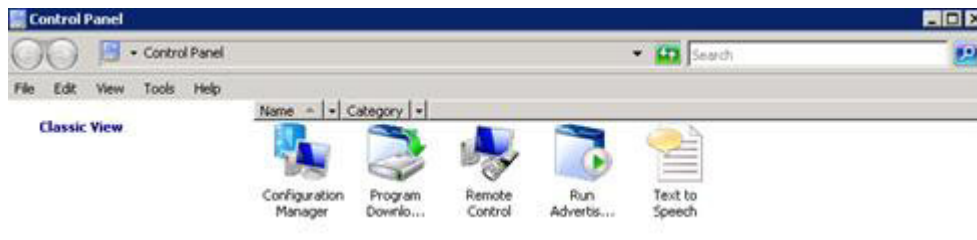
Figure 102. SCCM Agents in Control Panel

> **Note:** On a Windows 64-bit platform, there is a subfolder under the Control Panel named **View 32bit Control Panel Items.** The above components are located in this subfolder.

2. Click **Configuration Manager**. The Configuration Manager Properties window is displayed.

3. In the **Actions** tab, select and initiate an action for the following components respectively: **Software Update Deployment Evaluation Cycle, Software Update Scan Cycle User** and **Policy Retrieval & Evaluation Cycle**.
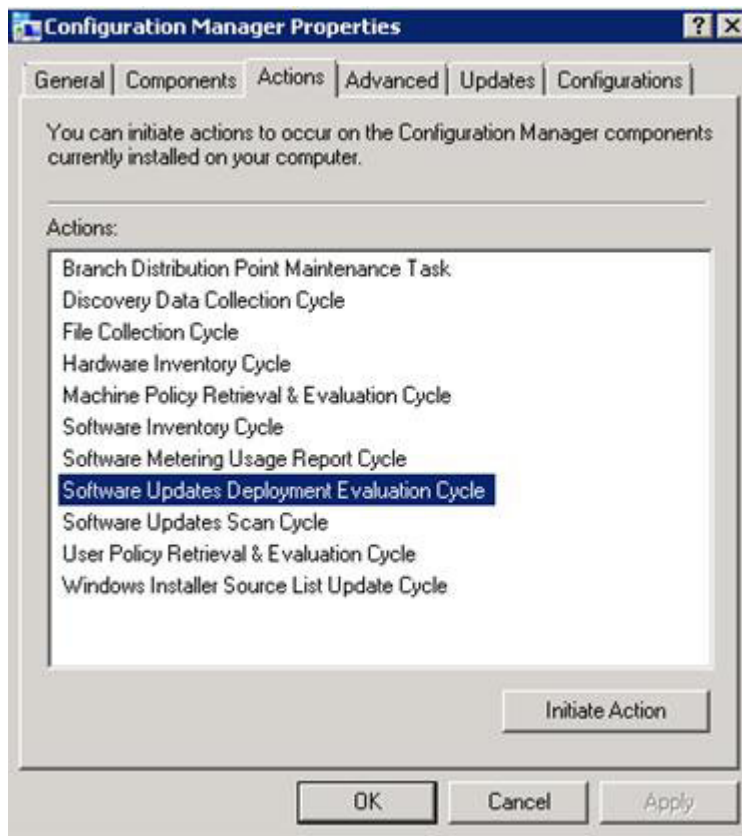
Figure 103. Initiating Configuration Manager properties

.NET Framework 2.0 or higher should be installed on the Microsoft System Center Configuration Manager client

Use this topic to determine if .NET Framework 2.0 or higher should be installed on the SCCM client.

Issue: IBM Updates cannot install on the SCCM client

Possible Solution: IBM Updates needs .NET Framework 2.0 or higher installed on the SCCM client system. Make sure it is already installed on the SCCM client system.

Unable to expire updates from the IBM System Updates Acquisition and Publishing tool

Use this topic to troubleshoot why updates from the IBM System Updates Acquisition and Publishing tool cannot be expired.

Issue: Updates do not show as "expired" on the SCCM console after they have been expired and published through the IBM System Updates Acquisition and Publishing tool.

Possible Solution: The SCCM server synchronization settings must be configured correctly. For more detailed information, see TechNet: Server Synchronization.

A sequence package may fail to install on client system

Use this topic for troubleshooting why a sequence pack fails to install on the client system.

Issue: A sequence package may fail to install on the client, but the Windows update history may show successful.

Possible Solution: Make sure the updates that are wrapped in a sequence are applicable on the target system. Check the result in the log file which is located under `C:\ibm_support\SUAP\%update_id%\result.txt` for detailed information.

Appendix B. Accessibility features

Accessibility features help users who have a physical disability, such as restricted mobility or limited vision, to use information technology products successfully.

IBM strives to provide products with usable access for everyone, regardless of age or ability.

IBM System Updates for Microsoft System Center Configuration Manager, v3.2 supports the accessibility features of the system-management software in which they are integrated. Refer to your system-management software documentation for specific information about accessibility features and keyboard navigation.

Tip: The IBM System Updates topic collection and its related publications are accessibility-enabled for the IBM Home Page Reader. You can operate all features using the keyboard instead of the mouse.

You can view the publications for IBM System Updates for Microsoft System Center Configuration Manager, v3.2 in Adobe Portable Document Format (PDF) using the Adobe Acrobat Reader. You can access the PDFs from the IBM System Updates for Microsoft System Center Configuration Manager, v3.2 download site.

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Important notes

View important assumptions about terminology and claims.

Processor speed indicates the internal clock speed of the microprocessor; other factors also affect application performance.

CD or DVD drive speed is the variable read rate. Actual speeds vary and are often less than the possible maximum.

When referring to processor storage, real and virtual storage, or channel volume, KB stands for 1024 bytes, MB stands for 1•048•576 bytes, and GB stands for 1•073•741•824 bytes.

When referring to hard disk drive capacity or communications volume, MB stands for 1•000•000 bytes, and GB stands for 1•000•000•000 bytes. Total user-accessible capacity can vary depending on operating environments.

Maximum internal hard disk drive capacities assume the replacement of any standard hard disk drives and population of all hard disk drive bays with the largest currently supported drives that are available from IBM.

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