



IBM System x

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

Version 5.0





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Microsoft System Center Configuration Manager
User's Guide

Version 5.0

Note

Before using this information and the product it supports, read the information in “Notices” on page 123.

Edition notice

This edition applies to version IBM System Updates for Microsoft System Center Configuration Manager, v5.0 and to all subsequent releases and modifications until otherwise indicated in new editions.

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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. The IBM System Updates tool 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.

The following table describes some of the terms, acronyms, and abbreviations used in this document.

Table 1. Frequently used terms and acronyms

Term/Acronym	Definition
DSA	IBM Dynamic System Analysis
SCCM	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, v5.0 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 System 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, v5.0 Release Notes[®]*
- *IBM System Updates for Microsoft System Center Configuration Manager, v5.0 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 where 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 System Management Solutions for IBM Servers

Locate the latest downloads for IBM System Updates for Microsoft System Center Configuration Manager, v5.0.

IBM Systems Technical support site

Support for IBM Systems.

Locate support for IBM hardware and systems-management software.

IBM Systems Management Software: Download Software Registration

IBM Systems Director: Download Registration

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

IBM System x Systems Management page

IBM systems management solutions for System x

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

IBM ServerProven® pages

IBM ServerProven Compatibility for hardware, applications, and middleware

IBM ServerProven Compatibility for BladeCenter products

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

Microsoft System Center Configuration Manager page

Microsoft System Center Technical Resources

Chapter 1. IBM System Updates for Microsoft System Center Configuration Manager, v5.0

The topics in this section provide an overview of IBM System Updates for Microsoft System Center Configuration Manager, v5.0 and product features.

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, v5.0 is making a commitment to reducing the time and effort of keeping an up-to-date IT environment.

What's new in version 5.0

IBM System Updates for Microsoft System Center Configuration Manager, v5.0 offers the following new support:

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

Trial license support

A trial license is automatically activated if a product license is not activated when this product is installed the first time. Before allowing the trial license to become activated, verify that your system time is correct. After a trial license is activated, the trial period is 90 days. During the trial period, the premium features are usable.

In the last 5 days of the trial period, the trial license software will provide notification about the trial license expiration. This notification will display every 24 hours. After the trial license expires, to maintain the premium features, you must activate a product license. After a product license is activated, manually restart the component to enable the premium features.

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 and enhancements.

Through the new features, you can:

- Publish the local updates to Windows Server Update Services
- Expire the published updates on the Windows Server Update Services server
- Download the latest updates from the IBM website
- Force updates to be installed for special hardware or undetected hardware that are not installed by default. This includes Brocade, Emulex, and QLogic HBAs and CNAs.
- Show the prerequisite and supersede updates information now available in the detail view.

Enhancements include:

- An Updated user interface that includes new functions introduced in version 3.1.
- Full support of the new update file format .uxz to download, publish, and deploy the OS agnostic firmware update, which is not in a traditional executable file (EXE), by using a UXZ file.

Premium features

The premium features are available when the IBM System Updates installation is registered with the IBM Upward Integration for Microsoft System Center, v3.1 or later. You can purchase an activation license by contacting either your IBM representative or an IBM Business Partner.

You can also obtain a product license from IBM Upward Integration for MSSC to ensure that the premium features are available after the 90-day trial license period.

For more information, refer to “Trial license support” on page 1.

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

- Check for the latest updates on the IBM website for all or selected updates for a supported machine type.
- Provide detailed information about available updates on the IBM website. This includes: general information, installation information, and platform information.
- Provide detailed information on the Windows Server Update Services 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 the endpoints.
- 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, v5.0 supports IBM systems

IBM System Updates for Microsoft System Center Configuration Manager, v5.0 provides a machine-type based download mechanism that enables you 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 you 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, ensure that you have deployed and installed the necessary SEPs.

Hardware and software requirements

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

Hardware requirements

The IBM System Updates tool has no specific hardware requirements. It can be run on either a non-IBM server or 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 2012 R2
- Windows Server 2012
- Windows Server 2008 SP1/R2
- Windows Server 2008 SP1/SP2
- Windows Server 2008 SP1/SP2 x64
- Windows Server 2003 SP2/R2
- Windows Server 2003 SP2/R2 x64

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. If the Windows Server Update Services WSUS version is earlier than 4.0, a WSUS patch is required and can be downloaded from the [An update for Windows Server Update Services 3.0 Service Pack 2 is available](#) web page.

Ensure that the account used to install the IBM System Updates tool on the host computer has 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 the IBM System Updates tool

This topic describes how to install the IBM System Updates tool.

Before you begin

There are two methods for installing IBM System Updates for Microsoft System Center Configuration Manager, v5.0.

- The first method uses the IBM System Updates for Microsoft System Center Configuration Manager, v5.0 setup package (EXE file).
- The second method uses the IBM Upward Integration for Microsoft System Center Installer.

For more information about the IBM Upward Integration for Microsoft System Center Installer refer to IBM Upward Integration for Microsoft System Center bundle - IBM BladeCenter and System x.

About this task

Procedure

1. Go to the IBM System x Integration Offerings for Microsoft Systems Management Solutions website.
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.



Figure 1. WSUS 3.0 sp1 or later is not installed message

Click **OK** to stop the program and complete the installation.

While the program installs, the Preparing to Install page for the IBM System Updates tool opens.

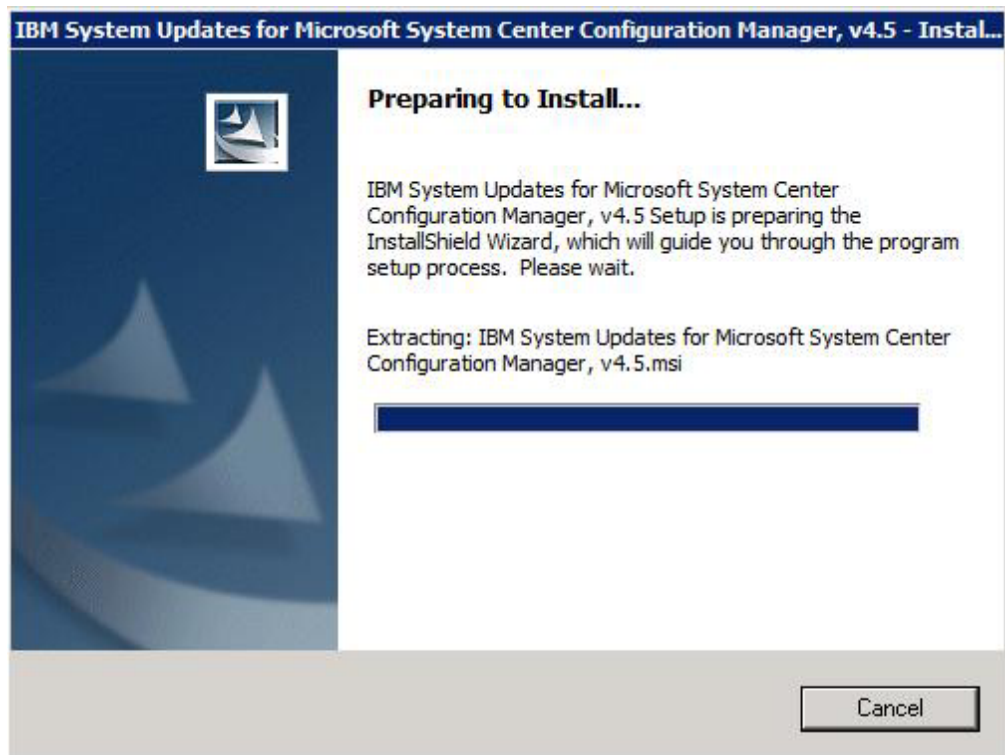


Figure 2. Preparing to Install IBM System Updates

3. Click **Next** and the InstallShield Wizard page opens. If for some reason you need to stop the installation, click **Cancel**.

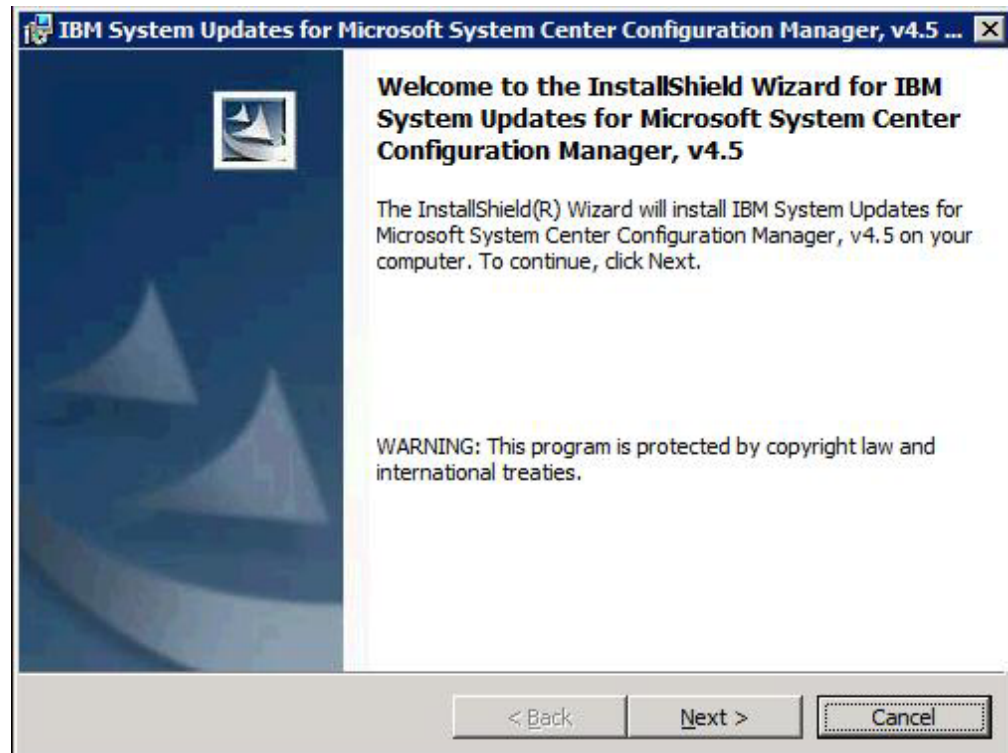


Figure 3. InstallShield Wizard Welcome page for IBM System Updates

4. Click **Next** to continue the installation and proceed to the License Agreement page.

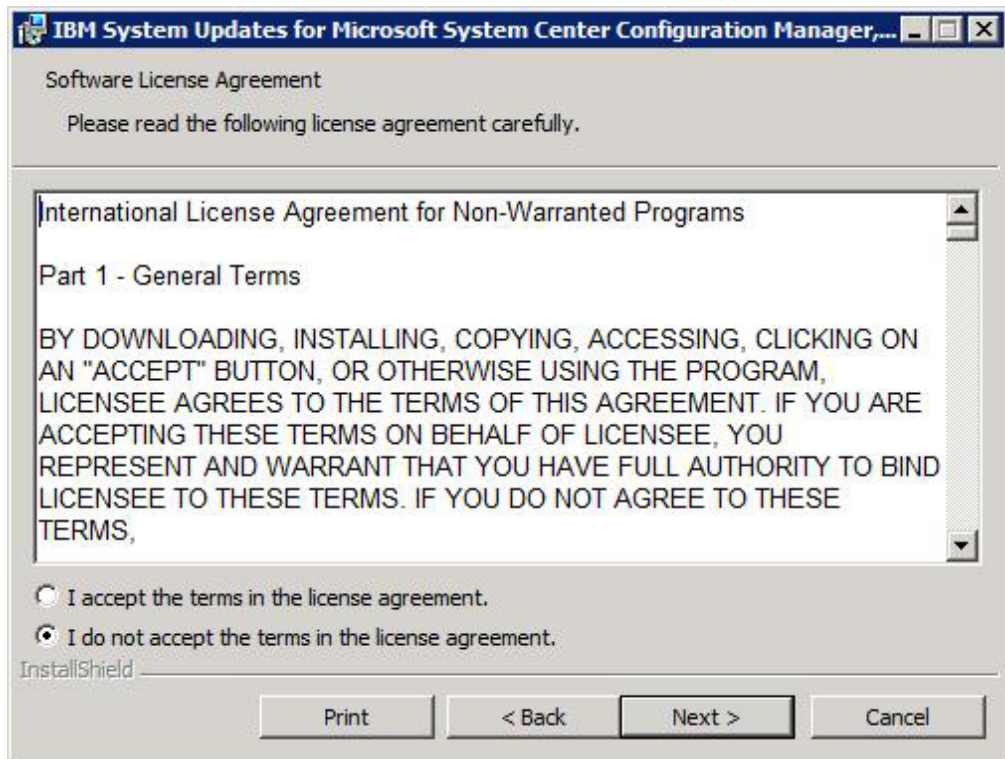


Figure 4. Software License agreement

5. Read the license agreement terms and select **I accept the terms in the license agreement** and then click **Next**.
 - If no product license is activated, the Trial Version page opens. Complete the following step on the Trial Version page.
 - If a product license was activated, the Destination Folder page opens. Complete step 7.
6. Optional: On the Trial Version page, select one of the following options:
 - Click **Contact IBM to obtain a valid product license**.
 - Click **Next** to proceed to the Destination Folder page.

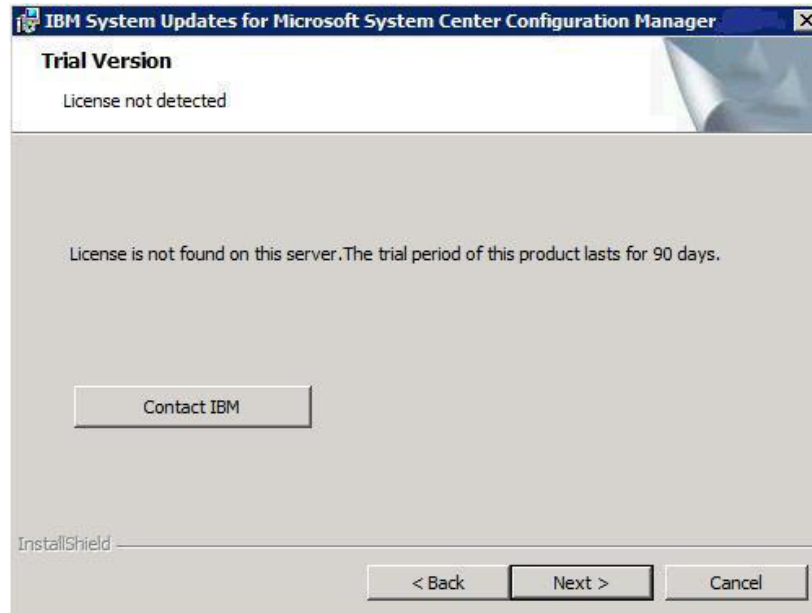


Figure 5. Trial Version page

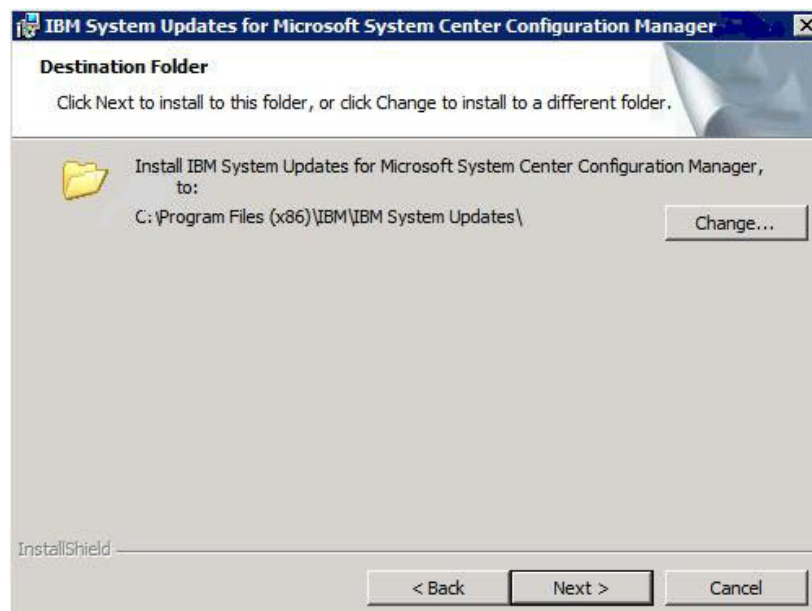


Figure 6. Destination folder

7. On the Destination Folder page, either click **Next** to accept the default installation directory, or click **Change** and enter a new location. The Ready to Install the Program page opens.

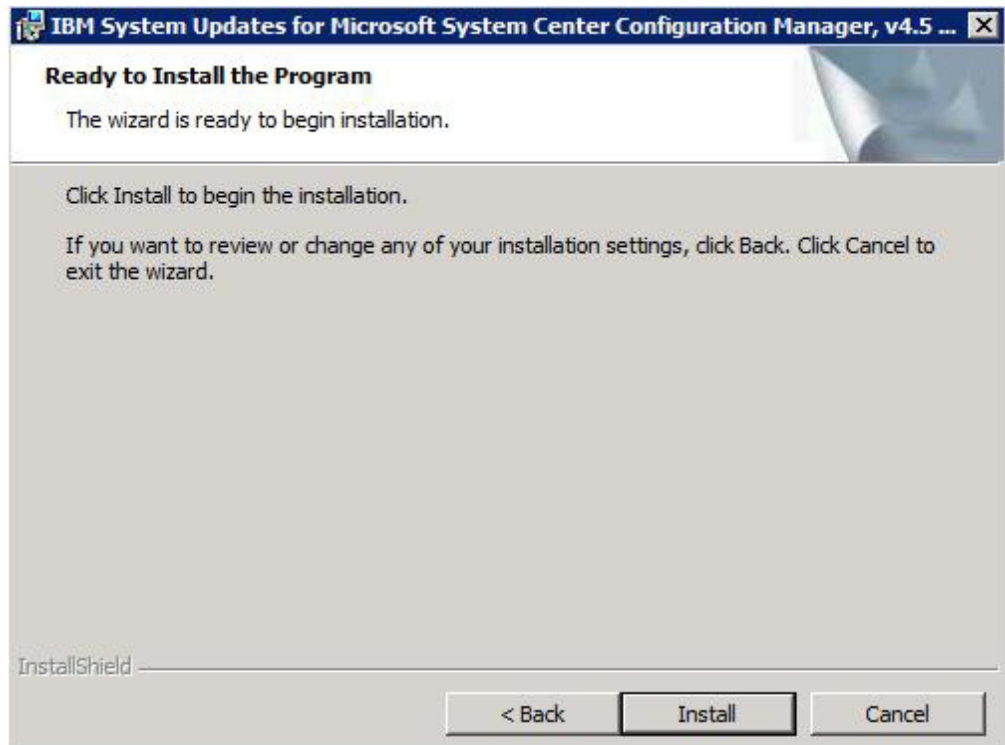


Figure 7. Ready to Install the Program

8. Click **Install** to start the installation. The Installation progress page is displayed.

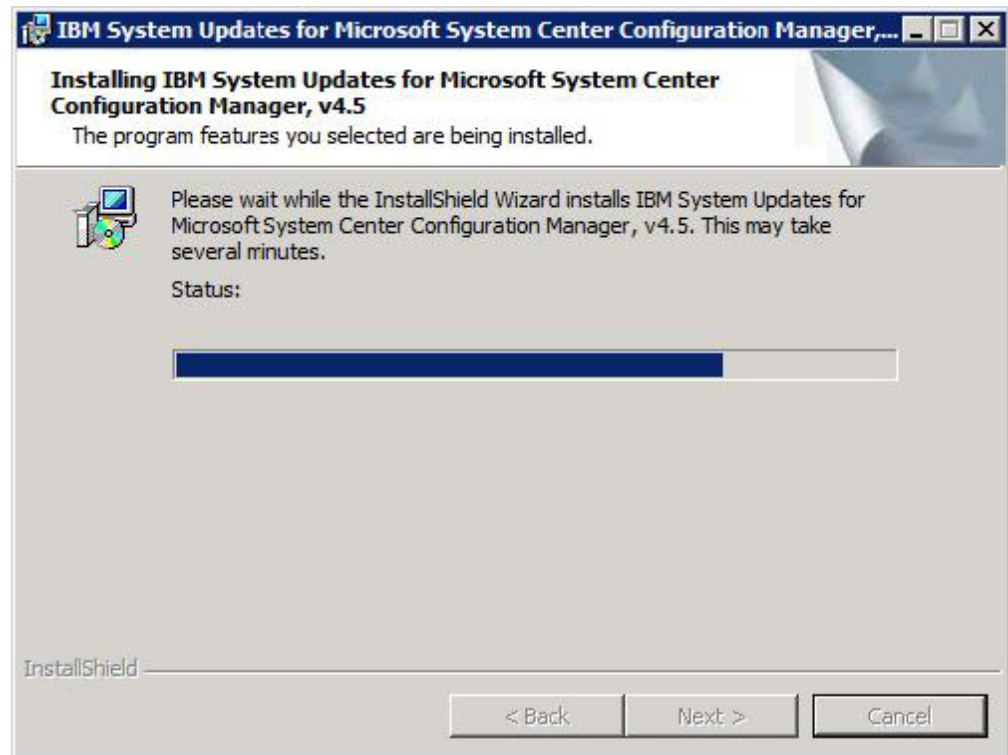


Figure 8. Installation progress

Note: During the installation, a command prompt window displays the extraction of the necessary installation files. If any errors occur during installation, they will be displayed. Do not close the command prompt window. It may take several minutes for the installation to finish.

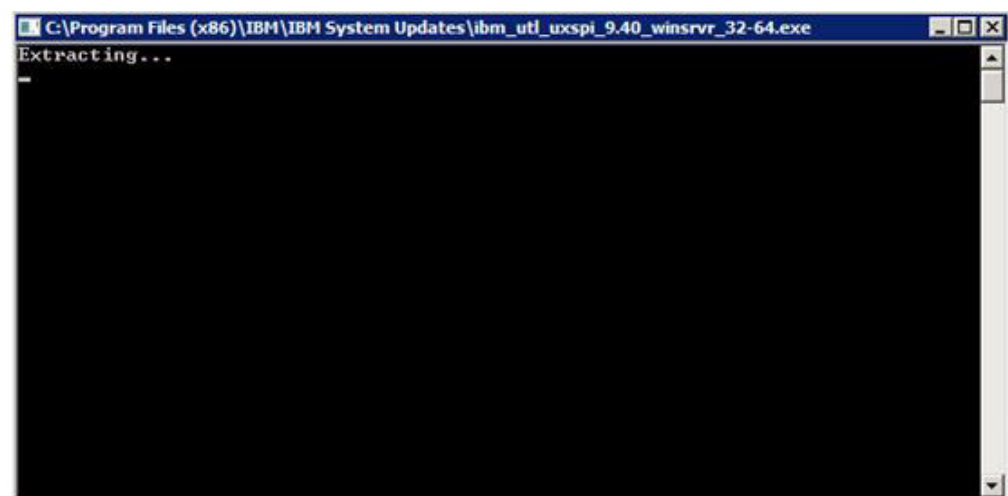


Figure 9. Extraction of Installation files

When the installation is complete, the InstallShield Wizard Completed page opens.

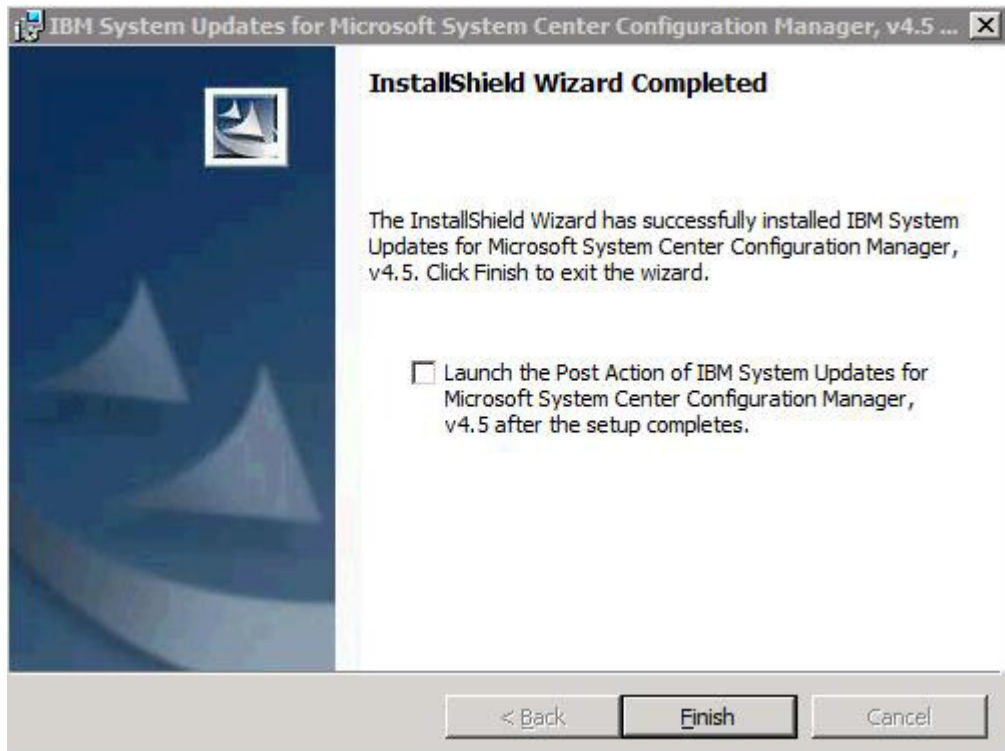


Figure 10. InstallShield Wizard Completed

9. Select one of the following options:
 - Click **Finish** to complete the installation.
 - Select the **Launch the Post Action of IBM System Updates for Microsoft System Center Configuration Manager 2007, v5.0** check box to start the Setup wizard for IBM System Updates tool.

Note: You can also start the Setup Wizard from the **Start** menu.

Uninstalling the IBM System Updates tool

There are four methods for uninstalling the IBM System Updates for Microsoft System Center Configuration Manager, v5.0 tool.

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

- Uninstall by using the **Add or Remove Programs** option. For the Windows Server 2008 operating system, you can use **Programs and features** to uninstall.
- Select the **Remove** option for the IBM System Updates for Microsoft System Center Configuration Manager, v5.0 Installer (EXE file).
- Select the **Remove** option using IBM Integrated Installer (EXE file).
- Select **Uninstall** from the **Start** menu.

Note: The log files, temporary 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 5.0

IBM System Updates Acquisition and Publishing (SUAP) tool is the core component in IBM System Updates for Microsoft System Center Configuration Manager, v5.0. 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 for Microsoft System Center Configuration Manager, v5.0 allows you to easily configure settings, maintain a machine list, and manage updates for your specific machine types.

The navigation pane consists of the following three views:

- Home
- All Updates
- My Machines

Using the Home view

The Home view provides three options to assist you in getting started with IBM System Updates.

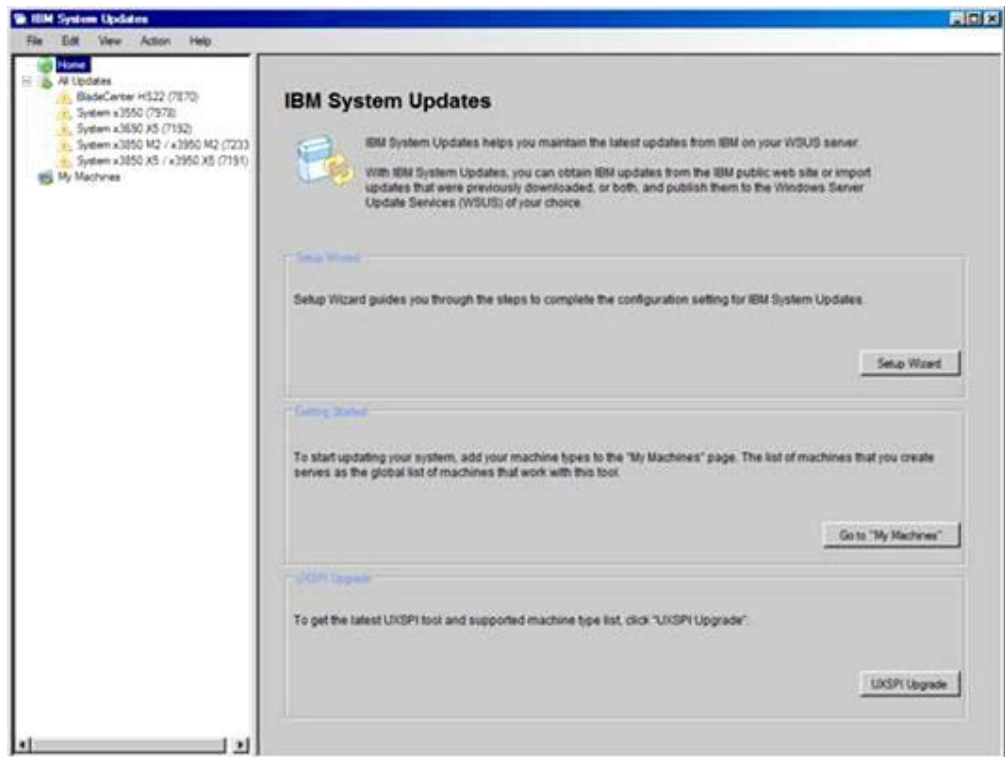


Figure 11. Home view

Setup Wizard

Use the Setup Wizard option to guide you through the steps for configuring the settings for IBM System Updates.

Getting Started

Use the Getting Started option to start updating your system by creating machine types list to work with the System Updates tool.

UXSPi Upgrade

Use the UXSPi Upgrade option to get the latest UXSPi tool and supported machine type list.

Setup Wizard

The Setup Wizard guides you through the steps for completing the setup of the configuration settings for IBM System Updates.

After you complete the setup of the configuration settings, you can view and edit them. There are two methods for viewing and editing the configurations settings. From the **Start** menu, select one of the following methods:

- **IBM SUAP tool Menu > Edit > Preferences.**
- **Setup Wizard.**

Configuring the Windows Server Update Services server:

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

Procedure

1. Select one of the following WSUS server options:

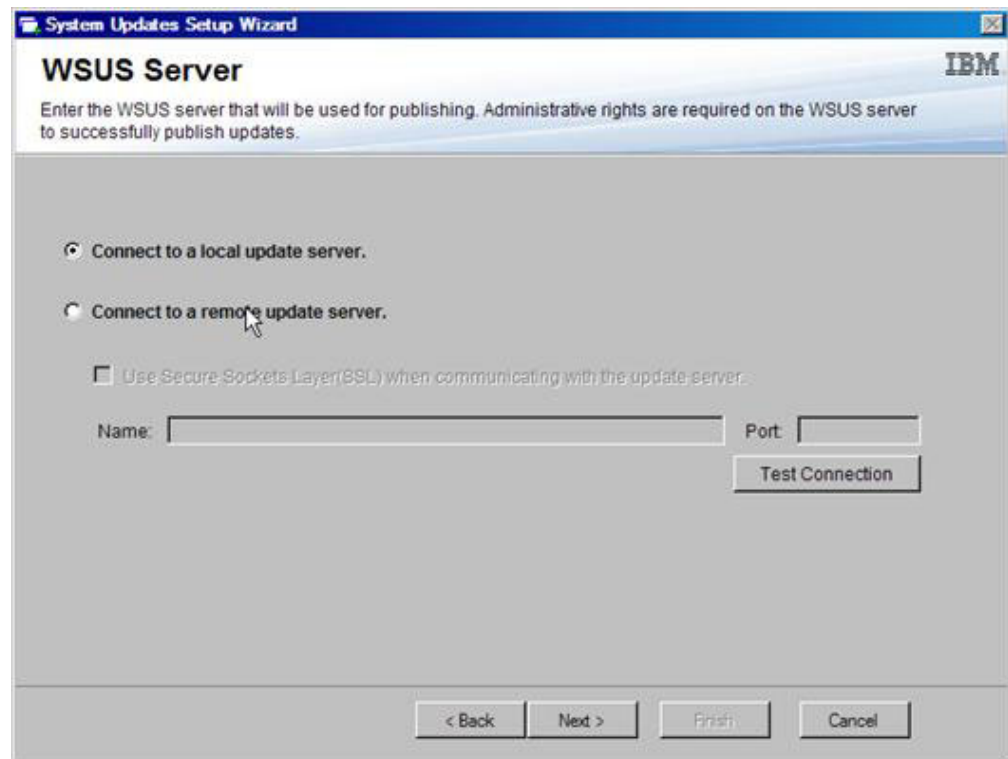


Figure 12. System Updates Setup Wizard for the WSUS Server

- To use the same server for WSUS that IBM System Updates is installed on, click **Connect to a local update server**
- To publish the updates to the WSUS server through the network, click **Connect to a remote update server**

Note: If the **Connect to a remote update server** option is selected, specify the name of the WSUS update server and the port used to connect to that server. You can use the hostname or the IP address as the name of the WSUS update server.

This option allows you to use Secure Sockets Layer by selecting the **Use Sockets Layer (SSL)** check box. For more information about Secure Sockets Layer, see “Using the Secure Sockets Layer for Windows Server Update Services server (Optional)” on page 16.

2. Click **Next** to proceed with WSUS configuration.

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

The IBM System Updates tool supports publishing updates to the Windows Server Update Services (WSUS) server by 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.

About this task

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

For more information about how to configure SSL on the WSUS 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 Internet Information Services (IIS) help document. These help documents are available when the Windows Server Update Services and IIS tool is installed.

Procedure

1. Add the SSL certificate file to your IBM System Updates computer. Import the SSL certificate to these locations:
 - Trusted Publishers
 - Trusted Root Certification Authorities
2. Complete the following steps to enable **SSL support for this WSUS server** using the IBM SUAP Tool Publish Wizard:
 - a. Connect to the local server the same way you connect to a remote server.
 - b. Enable **SSL support** in the SCCM console.
 - c. Select the appropriate version of Microsoft System Center Configuration Manager:
 - For Microsoft System Center Configuration Manager 2007, launch the SCCM console, and select **Site Management** > **%Site Name%** > **Site Settings** > **Component Configuration**.

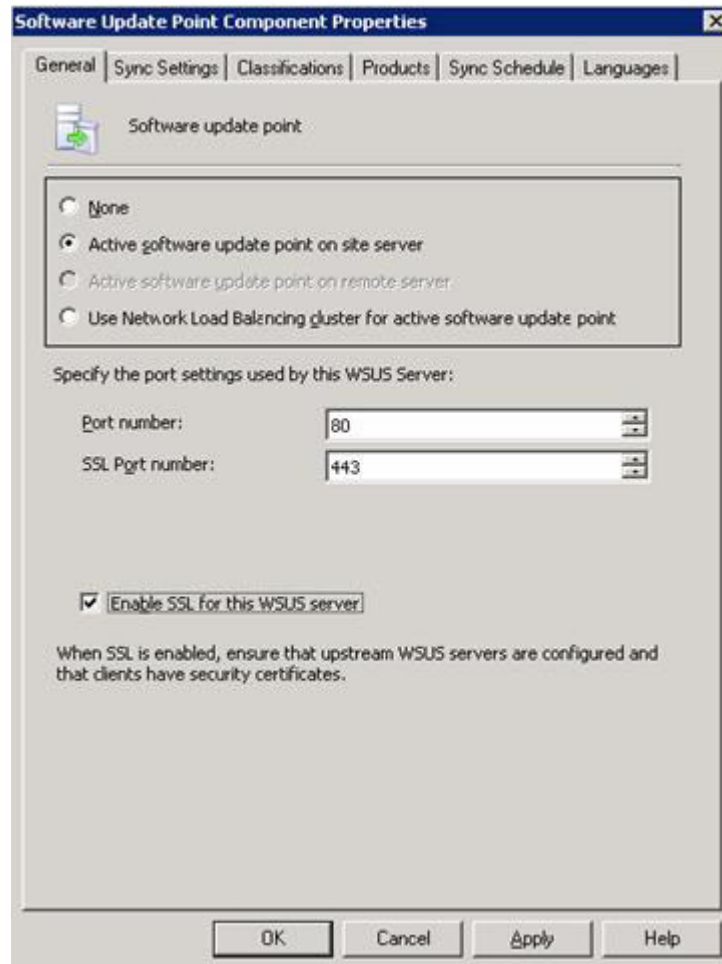


Figure 13. Software Update Point Component Properties (SCCM 2007)

- For Microsoft System Center Configuration Manager 2012, launch the SCCM console, and select **Administration > Site Configuration > Sites > %Site Name% > Configure Site Components**.

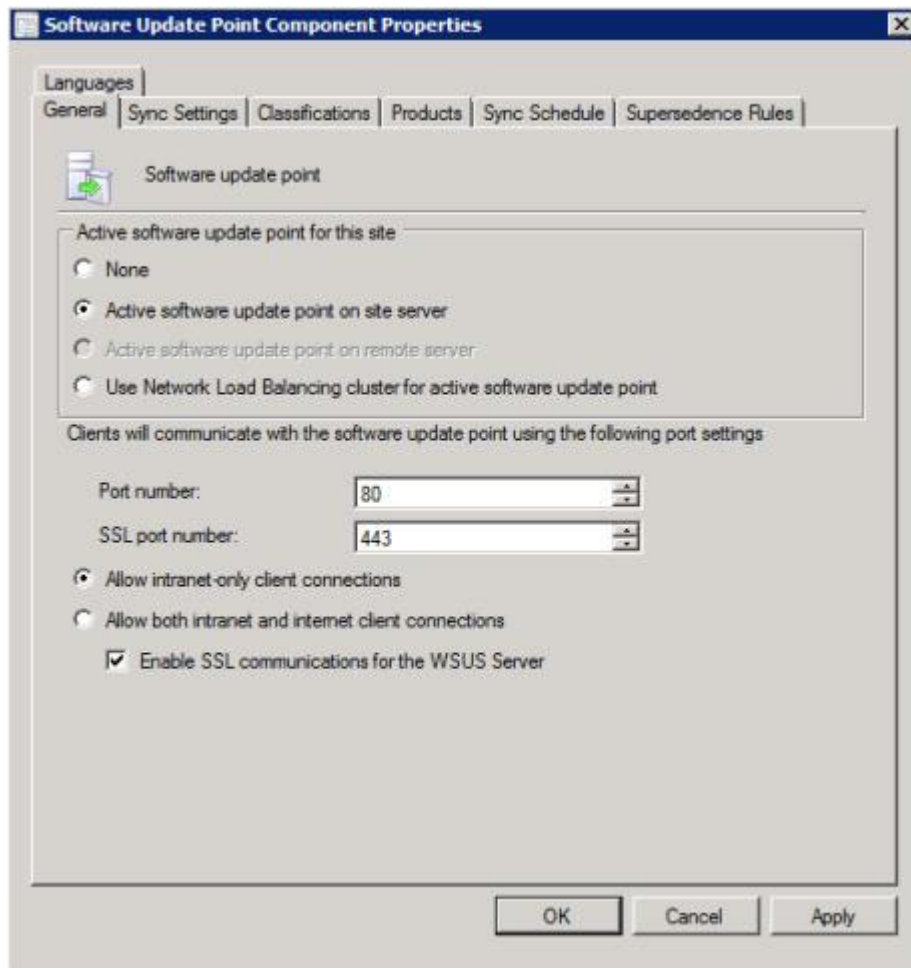


Figure 14. Software Update Point Component Properties (SCCM 2012)

- d. Open **Software Update Point Component** and enable **SSL support**.

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

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

Configuring a Windows Server Updates Services server certificate:

This section describes how to configure a digital certificate for a Windows Server Update Services (WSUS) server.

About this task

On the WSUS Server Certificate page, you can configure a digital certificate for the WSUS server.

Procedure

1. Use one of the following options to select a certificate to configure:
 - Click **Browse** to navigate to and select a third-party certificate.
 - Click **Create** to generate a new self-signed certificate.

Note: The WSUS in Windows 2012 R2 and later versions, no longer issues self-signed certificates. You can create certificates by installing the certification authority. For more information, see [Install the Certification Authority](#).

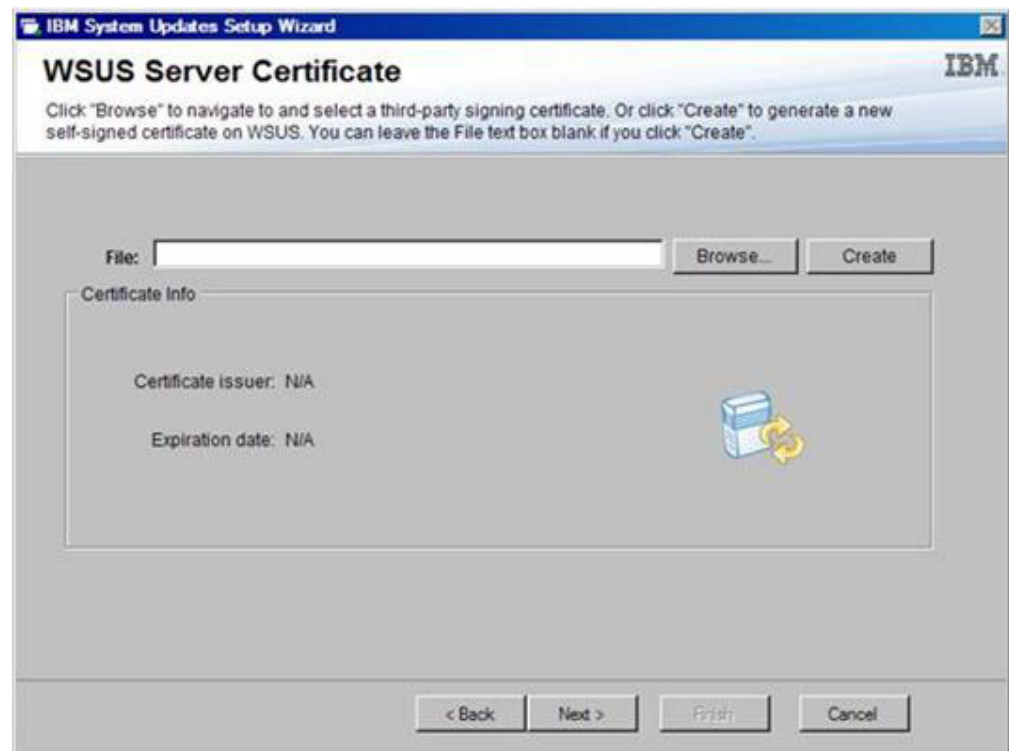


Figure 15. WSUS Server Certificate

2. Click **Next**.

What to do next

A digital certificate is used to sign the updates. The certificate must be added by copying it to the appropriate certificate folders on the System Center Configuration Manager update 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 WSUS server, the IBM System Updates tool prompts you to generate a self-signed certificate on the WSUS server.

Note: The IBM System Updates tool also supports importing a third-party certificate. To import a third-party certificate, click **Browse** and select the **third-party certificate**.

Adding certificates:

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

Procedure

1. Click **Start > Run**.
2. Enter **MMC** on the command line and click **OK** to open the Microsoft Management Console (MMC).
3. To add a certificate, click **File > Add/Remove Snap-in** and click **Add**.
4. Click **Certificates** and click **Add**.
5. Select **Computer account** and click **Next**.
6. To select another computer, enter the **name of the update server** or click **Browse** to find the update server computer. If the update server is on the same server, select **Local computer** in this window.
7. Click **Finish**.
8. Click **Close**.
9. Click **OK**.
10. Expand **Certificates** (update server name of Local Computer), expand **WSUS**, and then click **Certificates**.

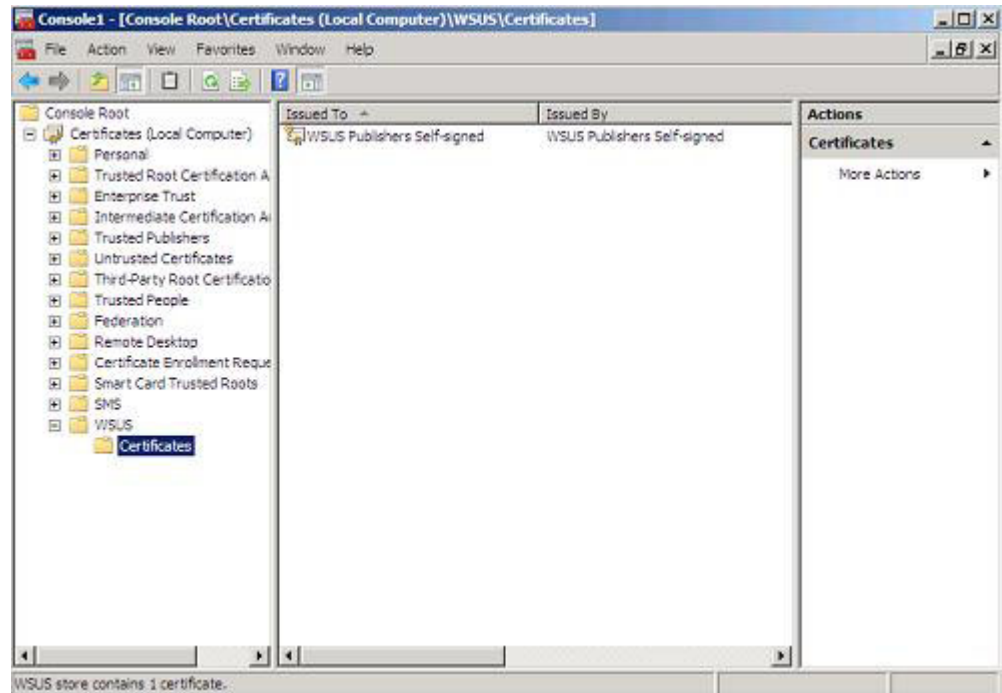


Figure 16. Console 1 - WSUS Certificates

11. In the middle pane, right-click the name of the certificate, select **All Tasks**, and then click **Export**. The Certificate Export Wizard opens.
12. 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.
13. Right-click **Trusted Publishers**, select **All Tasks** from the drop-down menu, and then click **Import**. Complete the Certificate Import Wizard using the exported file from step 6.
14. If a self-signed certificate is being used, such as WSUS Publishers Self-signed, right-click **Trusted Root Certification Authorities**, select **All Tasks**, and then select **Import**. Complete the Certificate Import Wizard using the exported file from step 6.
15. 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 scans for updates.

Important: The first installation action 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 a signing certificate on client computers:

- **Using Group Policy and the Certificate Import Wizard:** Perform the steps described in “Adding certificates” on page 20.
- **Using the certutil utility and software distribution:** Perform the steps in the following procedure.

Procedure

1. Click **Start > Run**, enter **MMC** in the text box, and then click **OK** to open the Microsoft Management Console (MMC).
2. Click **File**, and select **Add/Remove Snap-in**. The Add/Remove Snap-on dialog box opens.
3. Click **Add**, select **Certificates**, and then click **Add**. The Certificates snap-in dialog box opens.
4. Select **Computer account**, and then click **Next**. The Select Computer dialog box opens.
5. Select one of the following server options:
 - **Another:** Enter the name of the update server or click **Browse** to locate the update server.
 - **Local Computer:** Use this option if the update server is on the same server.
6. Click **Finish** to return to the Add Standalone Snap-in dialog box.
7. Click **Close** to return to the Add/Remove Snap-in dialog box.
8. Click **OK**.
9. On the MMC console, expand **Certificates** (update server name), expand **WSUS**, and then select **Certificates**.
10. Right-click the **certificate** in the results pane, select **All Tasks**, and then select **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.
11. To add the certificate used to sign the updates catalog for each client computer that will use Windows Update Agent to scan for the updates in the catalog, use one of the following methods:
 - **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. The Group 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: Windows Update Agent

Configuring outbound connectivity:

This topic describes how to configure outbound connectivity.

About this task

There are three options for configuring outbound connectivity, which are shown in the figures below:

The local machine can access the Internet directly

If you select this option, no additional network configuration for outbound connectivity is required.

The local machine requires a proxy server to access the Internet

If you select this option, you will need to setup an HTTP Proxy to have IBM System Updates connect to the Internet.

The local machine will not have access to the Internet

If you select this option, you can update from the local repository where updates were previously saved.

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 place the updates into the local repository.

Procedure

1. Select one of the Outbound Connectivity options:

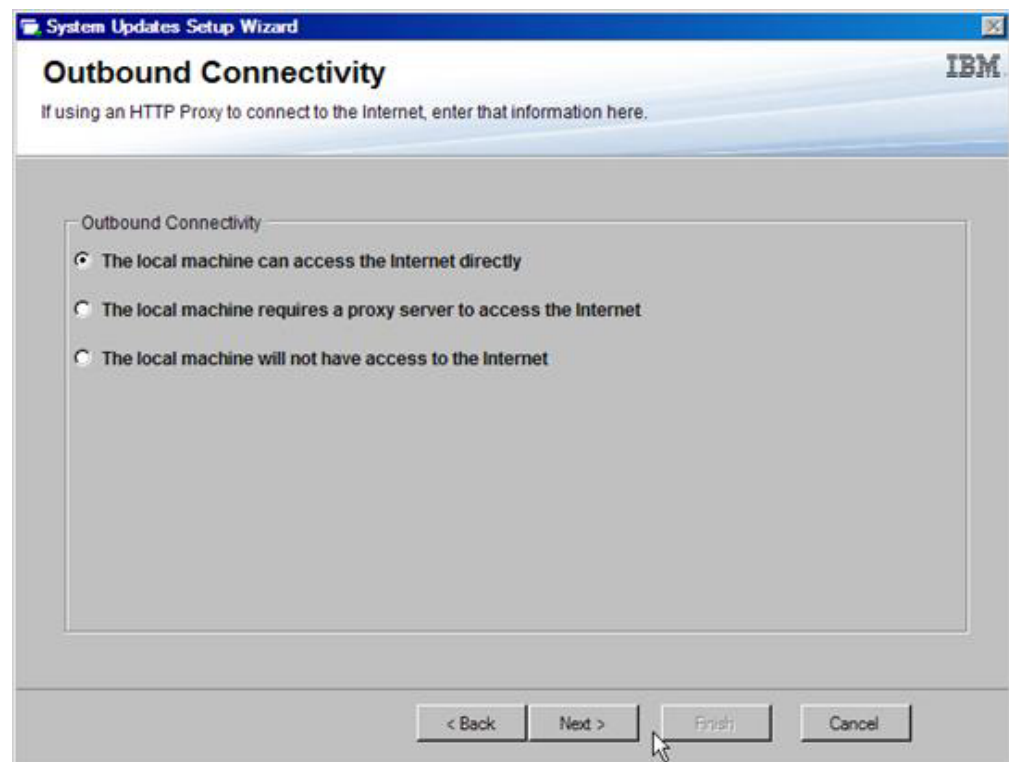


Figure 17. Outbound Connectivity

- The local machine can access the Internet directly
- The local machine requires a proxy server to access the Internet

- The local machine does not have access to the Internet

Note: If you select **The local machine requires a proxy server to access the Internet** option, enter the following information:

- Host
- Port

Figure 18. HTTP Proxy

2. Click **Next**. The Configuring the local repository page opens. See “Configuring the local repository” and complete the steps listed in that topic.

Configuring the local repository:

This topic describes how to configure the local repository for updates.

Procedure

1. Accept the current folder or click **Browse** to locate a different folder for the local repository.

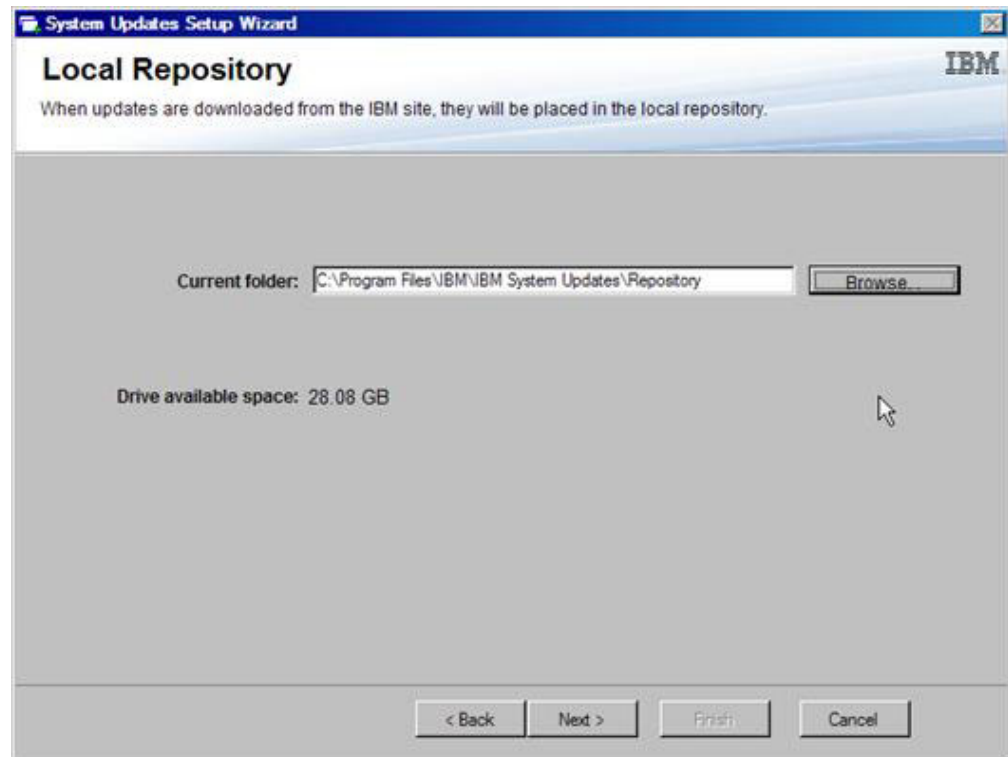


Figure 19. Local Repository

2. Click **Next**. The Confirm Setup page opens.

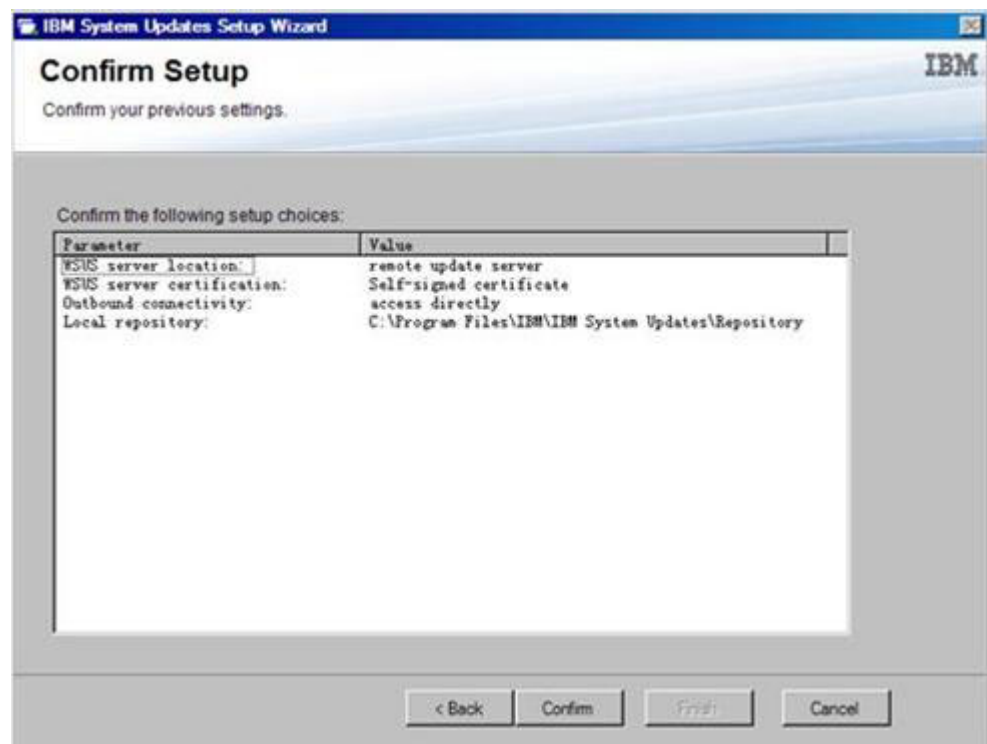


Figure 20. Confirm Setup

3. Click **Confirm** to confirm the previous settings. The Setup Finished dialog box opens.

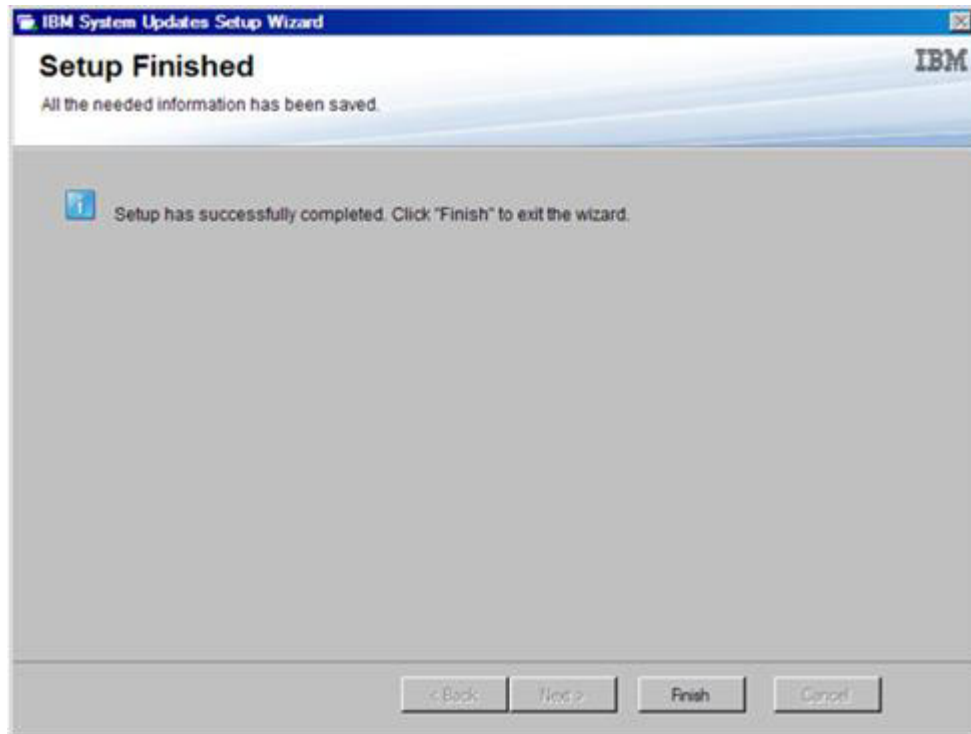


Figure 21. Setup Finished

4. Click **Finish** to complete the Setup Wizard.

Viewing machine types

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:

- Click **Go to My Machines** in the Home View.
- Click **My Machines** view in the navigation pane. For more information, see “Adding and removing machine types using My Machines view” on page 55.

Upgrading UXSPi

The UXSPi Upgrade option provides automated updates for new IBM System x and Blade servers without having to upgrade the IBM System Updates Acquisition and Publishing tool. This function is bundled with the IBM System Enablement Pack. The UXSPi Upgrade option gets the latest UXSPi tool, the latest supported server list, and IBM System Enablement Packs necessary to support the new servers from the IBM website.

About this task

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

Procedure

1. Select one of the following options for upgrading UXSPi:
 - In the Home View, click **UXSPi Upgrade**.
 - From the IBM System Updates and Acquisition and Publishing tool menu, select **UXSPi Upgrade**.
 - From the Actions list select **Upgrade UXSPi and Check Latest Machines**.

The Upgrade UXSPi and Check the Latest Machines window opens.

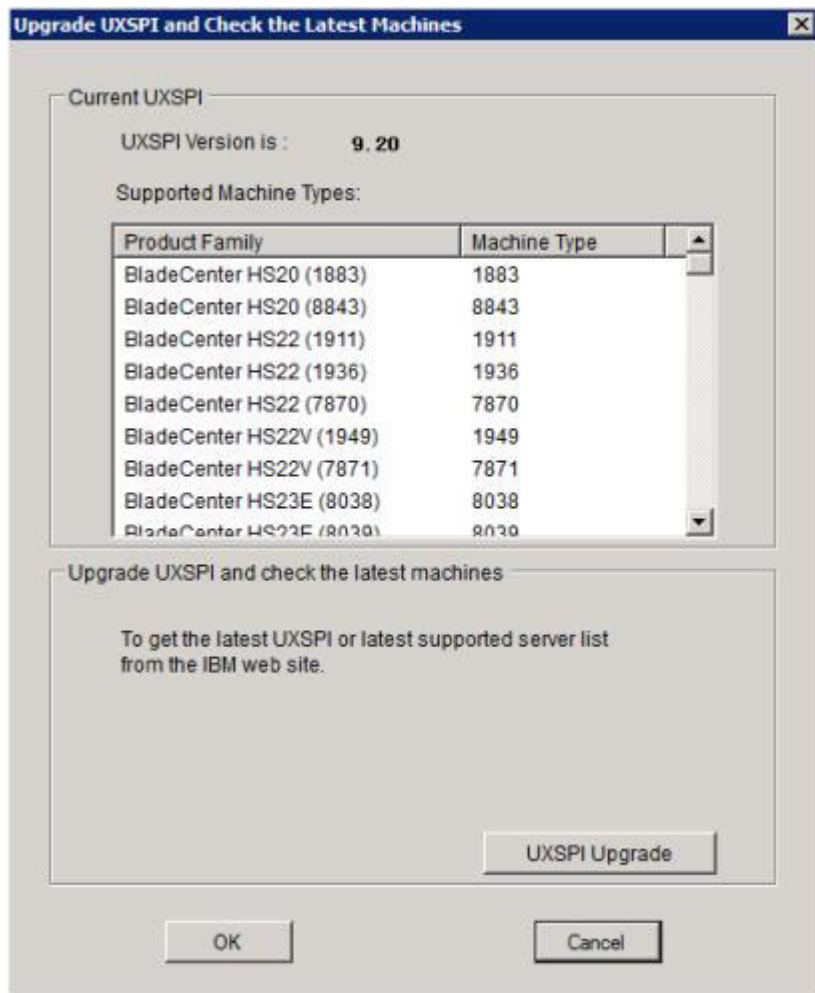


Figure 22. Upgrade UXSPI and check for the latest machine list

2. Click **UXSPI Upgrade** to continue. The Upgrade UXSPI tool and check the latest machine list status window opens indicating Upgrading UXSPI....

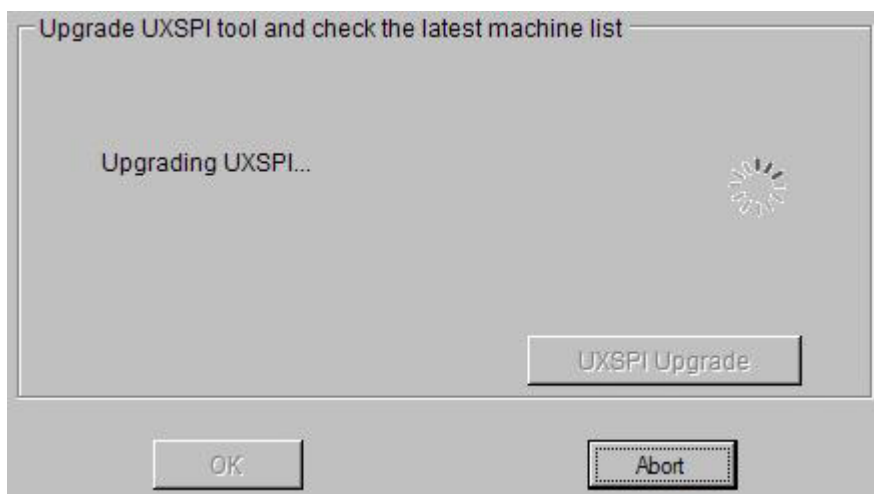


Figure 23. Upgrade UXSPI tool progress window

Note: The UXSPi upgrade will take some time, and is dependent on the network speed.

After successfully upgrading UXSPI, 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 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 navigation pane.

About this task

To use the All Updates view option, perform the following procedure.

Procedure

1. In the Home view, expand **All Updates** to view the status of updates for each machine.
2. Select a machine listed under All Updates, to view the details related to it. The right pane displays update information, and if there are no updates for that machine, the following message is displayed:

There is no update for this machine.

You can check updates from IBM website or the WSUS server, or import them from a local folder. Or you can reload the updates if they have been downloaded and imported earlier. Click the Action button to start the process.

The figure shown below provides an example containing three machine types listed under All Updates. The BladeCenter HS22 machine was selected and currently has no updates.



Figure 24. All Updates view with an example of no updates

- Click **Actions** list and select **Check all updates from IBM site** to start the check update process. The following figure provides an example of available updates for the System x3100 M4 machine.

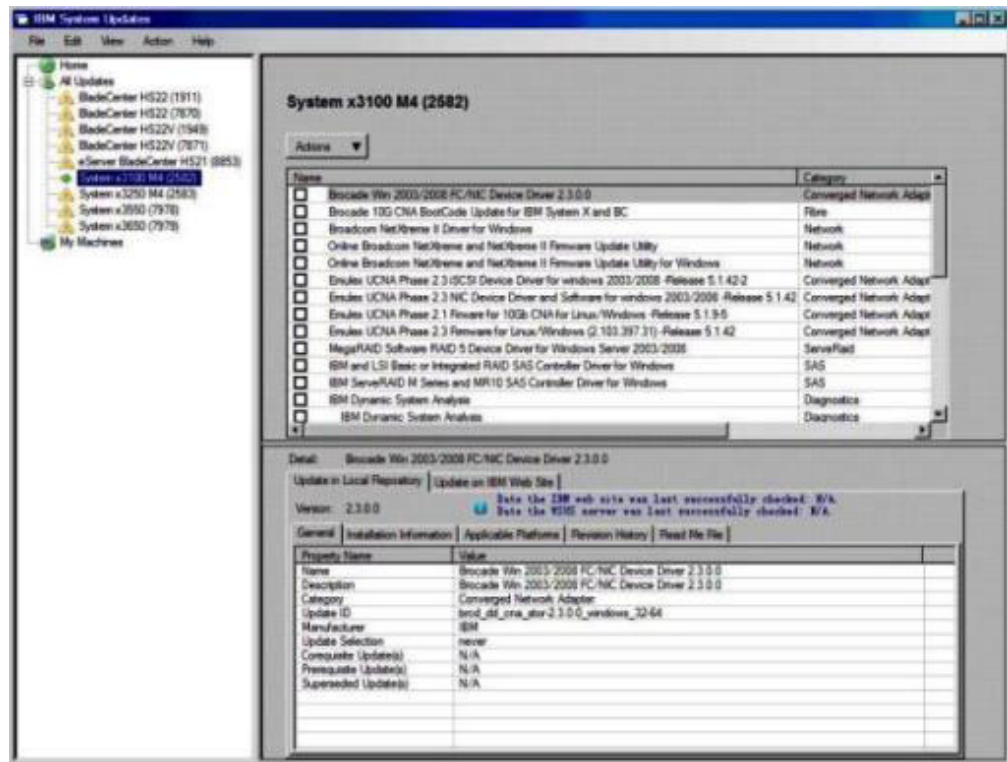


Figure 25. All Updates view example of an update for System x3100 M4

- Select an update in the upper-right pane to view detailed information for that update. When an update is selected, a detail window opens that contains tabs that provide more specific information about the update.
 - update version number
 - date of the last successful check of the IBM website and server
 - more specific information about the update is listed under each of the tabs

Reloading local updates

If you downloaded 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 **Actions**, and select **Reload local updates**.

Importing updates from a local directory

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

It is important to note the following information concerning updates:

- If the update package was downloaded from the IBM website in a ZIP file, extract the update package files first. The IBM System Updates Acquisition and Publishing tool requires that the contents of ZIP files are extracted.
- Each update contains two files: a binary file (.exe) and a metadata file (.xml). Both of these files are required for the update to 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 of these files are required for the update to be accepted by the IBM System Updates Acquisition and Publishing tool.

Importing updates by using the Import Wizard:

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

About this task

Updates are available as individual updates, sequence packages, or as UpdateXpress System Packs.

Procedure

1. To start the Import Wizard, click the **machine name** in the navigation pane and select **Import updates from local site** from the **Actions** list. The Import Wizard Welcome page opens.

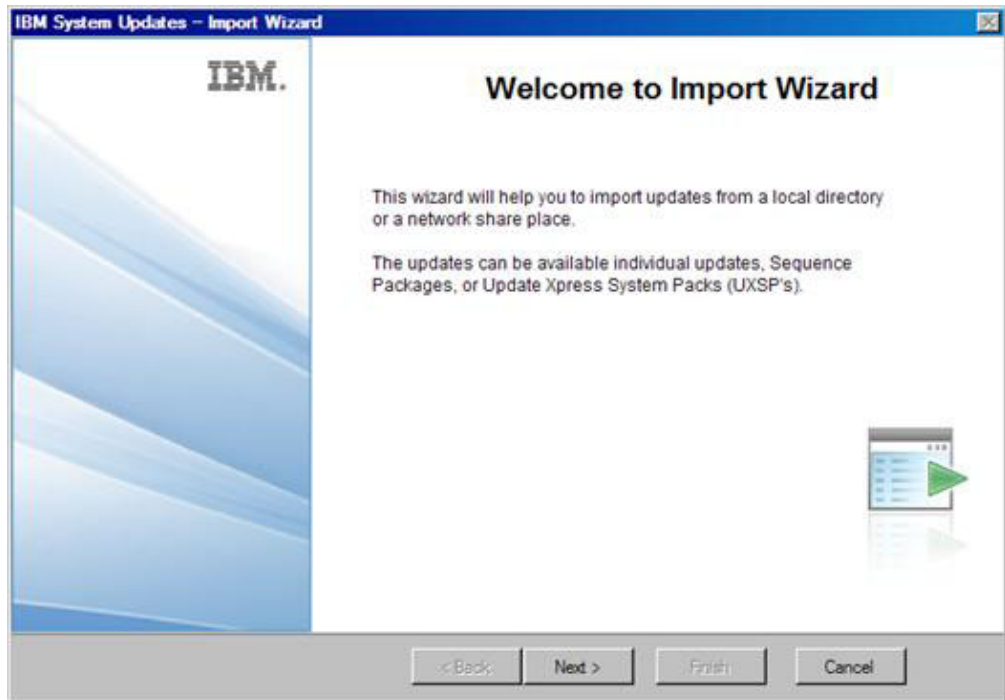


Figure 26. Import Wizard Welcome

2. Click **Next** to continue. The Select Updates Source page opens.

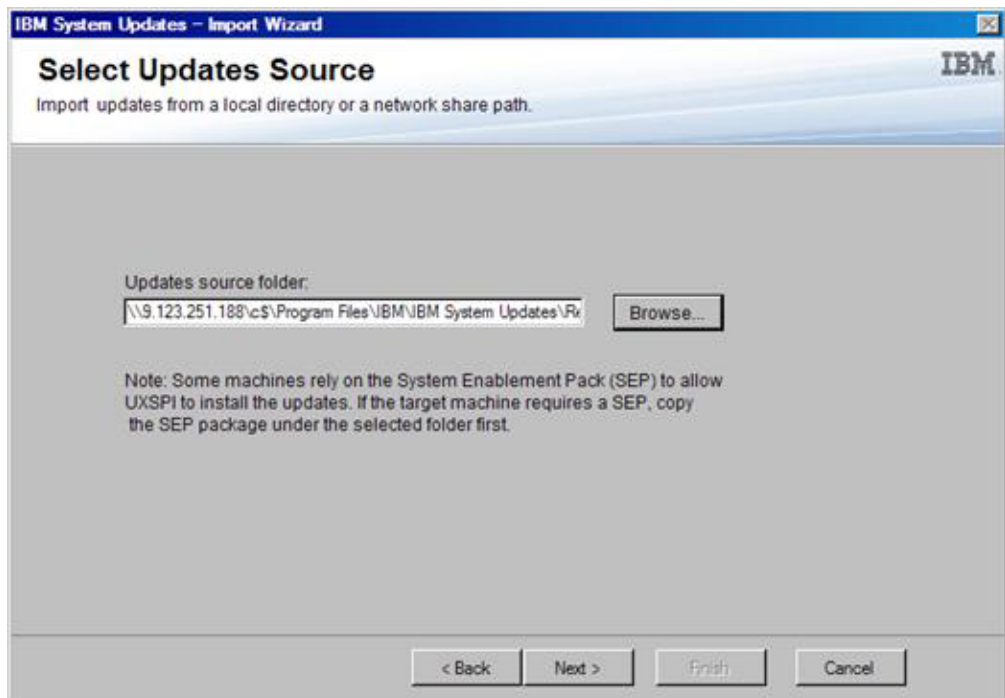


Figure 27. Select Updates Source

- Click **Browse** to locate and select the **updates source folder**, and then click **Next**.

Note: The IBM System Updates Acquisition and Publishing tool imports the updates to the root path. Updates located in subdirectories will not be imported. To import these files, run the Import Wizard again and select the subdirectory on the Select Updates page.

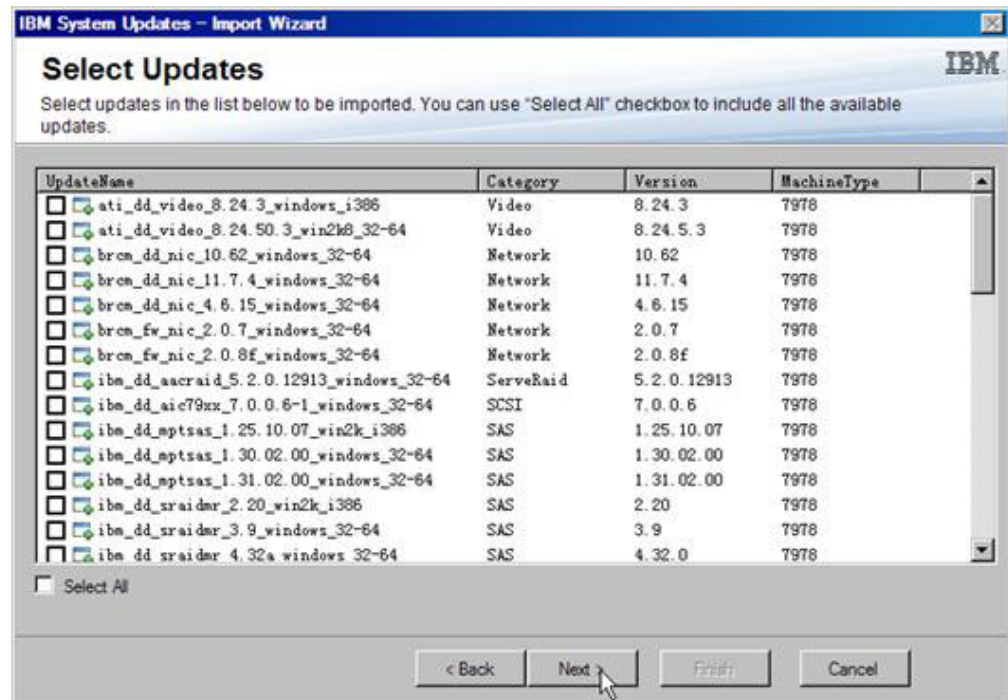


Figure 28. Select Updates

- On the Select Updates page, you can either select individual updates, or you can select all the available updates by selecting the **Select All** check box. Click **Next** to start importing the updates to the IBM System Updates Local Repository. The Importing Updates page shows the progress of the import operation.

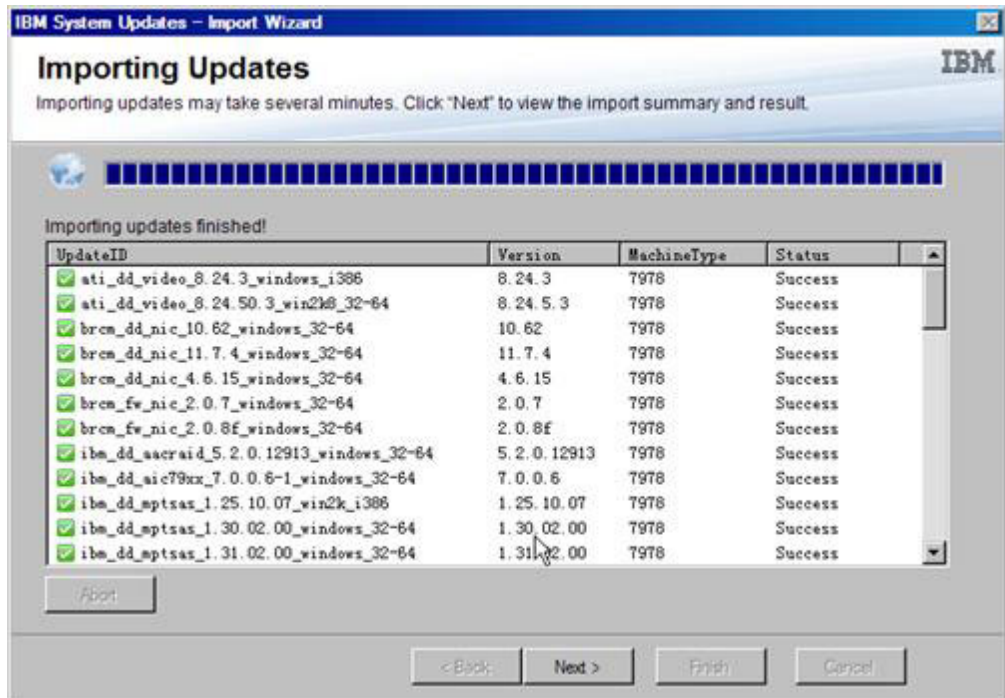


Figure 29. Importing Updates

- After successfully importing the updates, click **Next** to view a summary of the imported updates. On the Import Finished page, the status of the import is displayed, indicating the number of updates that were imported and a list of these updates.

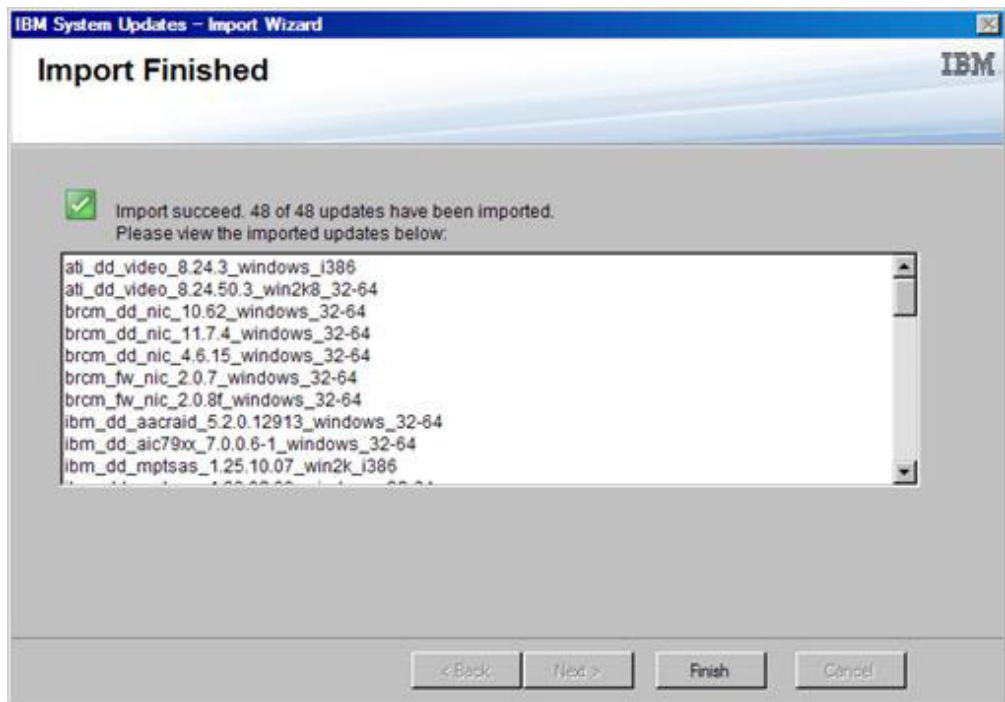


Figure 30. Import Finished

6. Click **Finish**.

Checking all updates from the IBM website

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

About this task

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

There are two options for checking updates from the IBM website:

- To **Check all updates from IBM site**, complete step 1.
- To **Check selected updates from IBM**, complete step 2.

Procedure

1. Click the **machine name** in the navigation pane and click the **Actions** list and select **Check all updates from IBM site**. This action performs a check for all updates related to the specific machine type on the IBM website.
2. Click the **machine name** in the navigation pane. If there are any updates listed in the right pane, select one or more these updates from the updates from the list view. (Press **Ctrl** or **Shift** to select multiple updates.) Select **Check selected updates from IBM** from the **Actions** list. This action performs a check of selected updates related to a specific machine type on the IBM website.

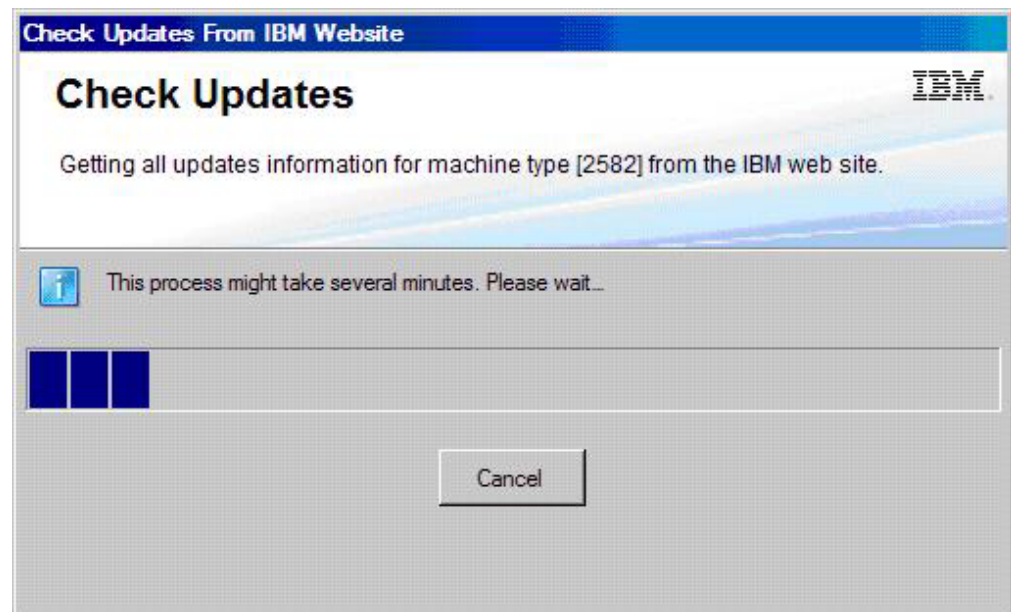


Figure 31. Check all updates from the IBM website

This process may take several minutes to complete.

After the Check Updates process has finished, the version of the update on IBM site line is updated and the detailed information about the update is provided. If the version on the IBM site is higher than the version on the local repository, there will be a blue icon beside the update name and a warning

message indicating the lower version.

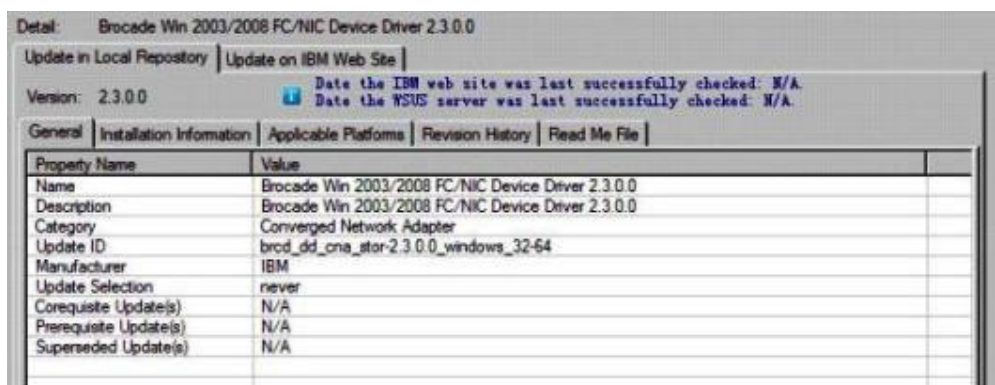


Figure 32. Updates view with the General tab detail information

The General tab provides a list of the following properties and is displayed in the bottom right pane of the Updates view:

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

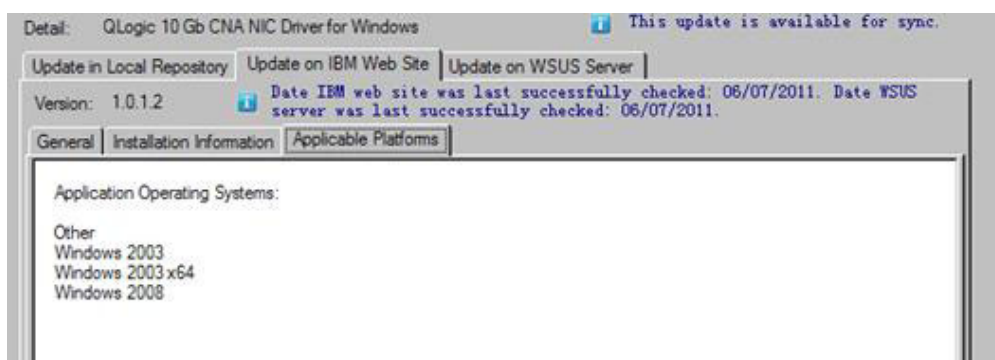


Figure 33. Updates view of the Applicable Platforms tab

The Applicable Platforms tab provides a list of updates for the application operating systems.

Downloading selected updates from the IBM website

This topic describes how to download the latest version of selected updates from the IBM website. Only the updates that completed a verification check from the IBM website (called remote updates), can be selected to download.

Before you begin

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

About this task

The UpdateXpress System Package has an integration-test bundle of online, updatable firmware and device driver updates for each System x and BladeCenter 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.

Procedure

1. Select an individual update or press **Ctrl** or **Shift** as you select multiple updates to download.
2. From the Actions list, select **Download Selected updates from IBM website**. The Download Wizard starts.

Using Download Wizard:

Use the Download Wizard to download selected updates from the IBM website.

Procedure

1. From the **Actions** list, select **Download Selected updates from IBM website**. The Download Wizard starts and begins downloading updates operation.

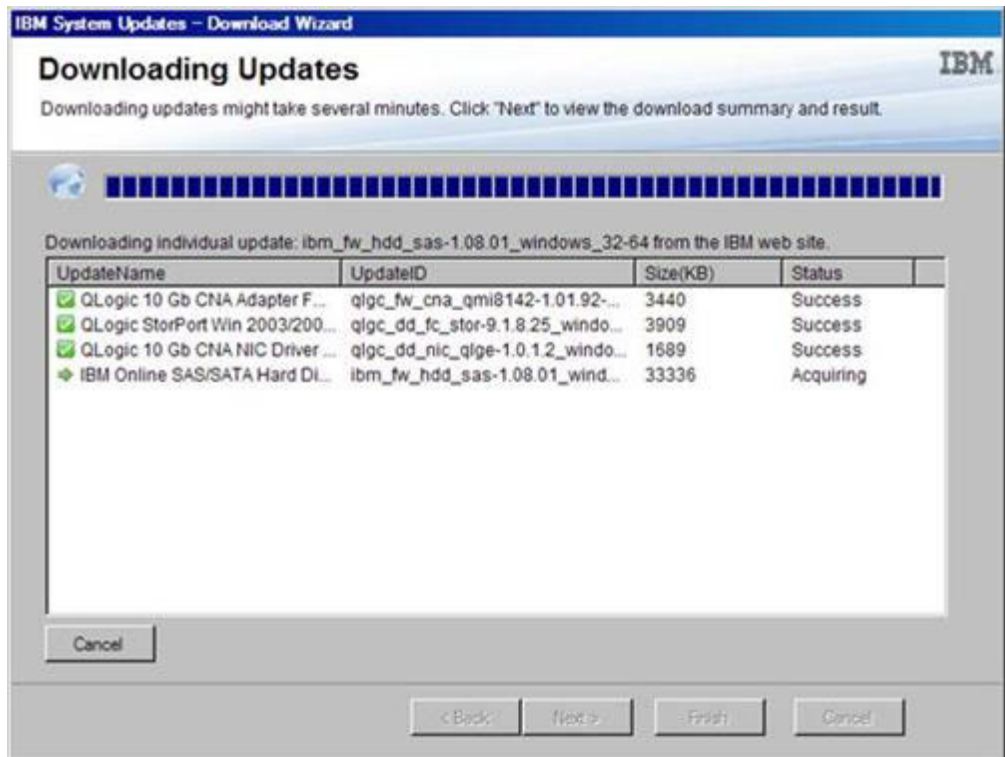


Figure 34. Downloading Updates

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

2. Click **Finish**.

Downloading selected updates and publishing 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 (WSUS) server directly.

Before you begin

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

About this task

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

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

Procedure

1. Select an individual update or press **Ctrl** or **Shift** to select multiple updates.
2. From the Actions list, select **Download Selected updates from IBM website**. The Download and Publish Wizard starts.

Using the Download and Publish Wizard:

You can use the Download and Publish Wizard to download and publish selected updates to WSUS.

About this task

After you have selected an individual update or multiple updates to download and publish, the Download and Publish Wizard starts.

Procedure

1. Click **I accept the terms in the license agreement**.



Figure 35. Publish Wizard License Agreement

2. Click **Next** to start downloading updates.
The downloading updates operation may take several minutes to complete.
When the downloading of updates is complete, the download status displays

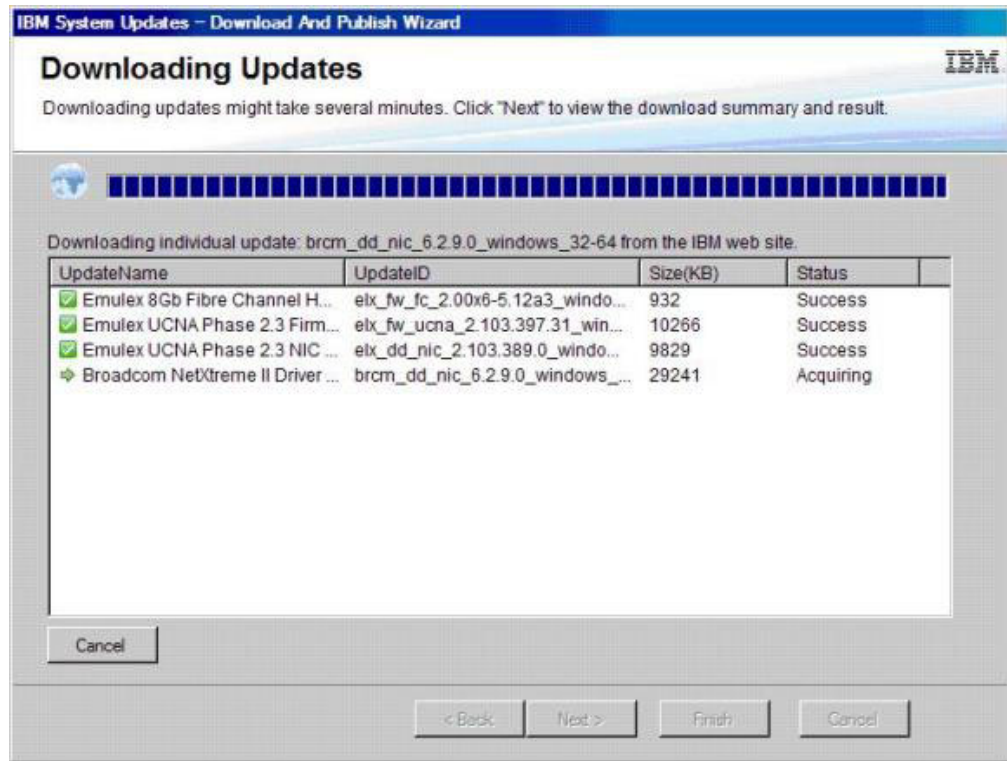


Figure 36. Downloading Updates

- 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.

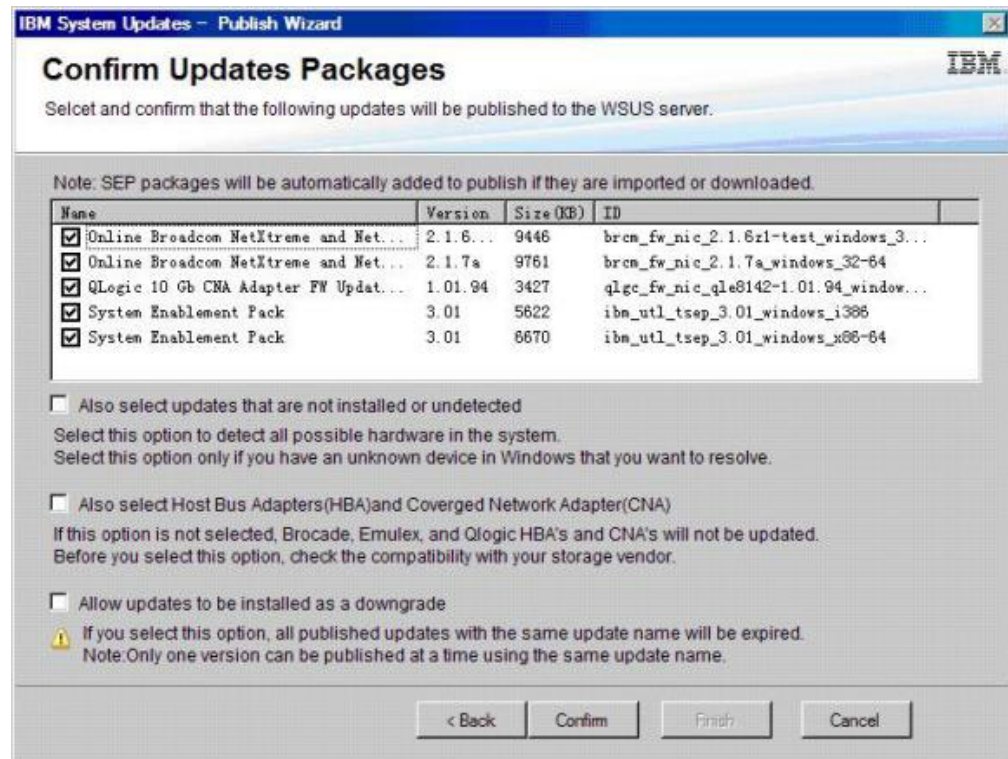


Figure 37. Confirm Updates Packages

5. Select one of the following options:
 - **Also select updates that are not installed or are undetected.** This option attempts to detect all possible hardware in the system. Select this option 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. Select this option only if you want to install the update when a higher version may already be installed.
6. Click **Confirm** to view the publishing results. The Publishing Updates page is displayed. This operation may take several minutes to complete.

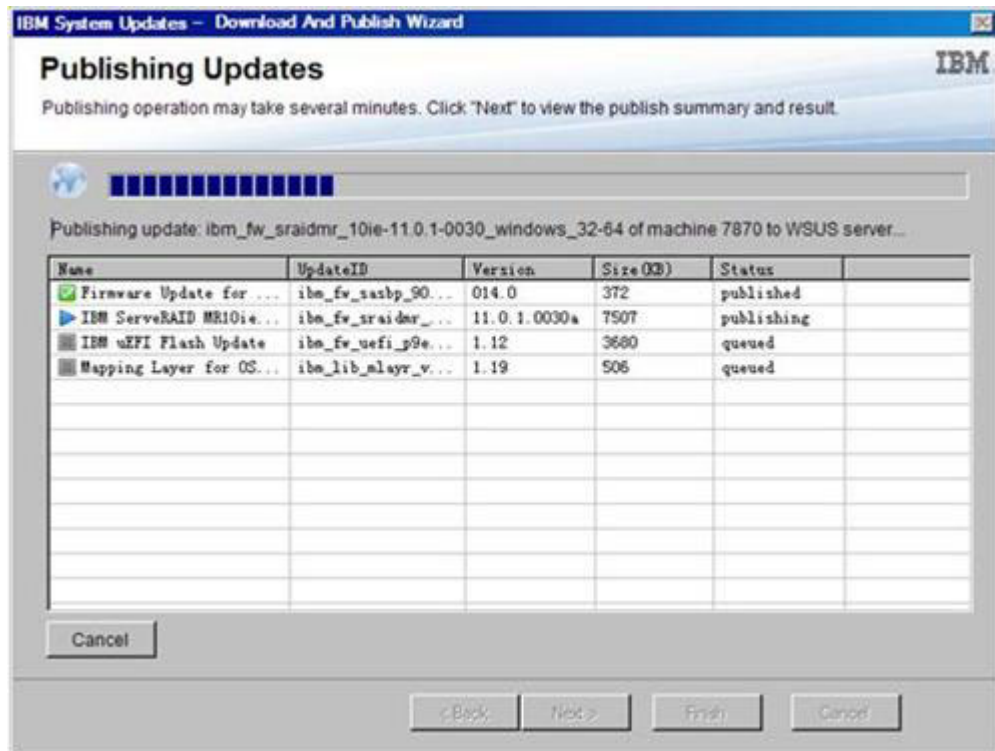


Figure 38. Publishing Updates

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.

7. Click **Finish**.

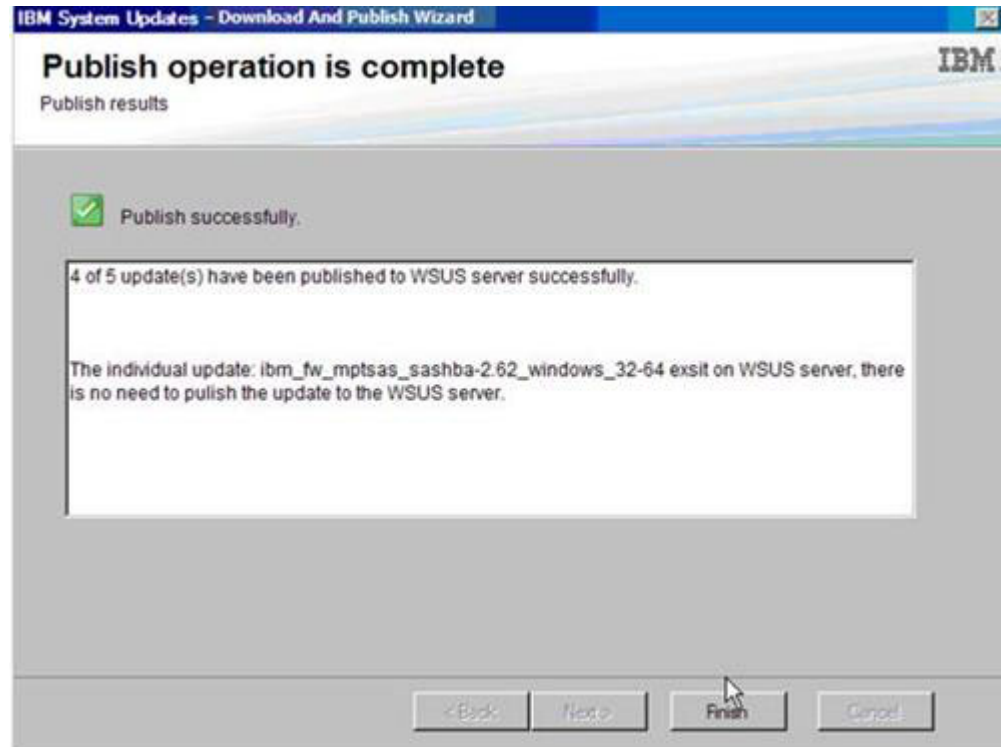


Figure 39. Publish operation is complete

Publishing selected updates to the Windows Server Update Services server

This topic describes how to publish selected updates to the Windows Server Update Services (WSUS) server.

Before you begin

Before you can publish IBM updates, verify that the WSUS server and certificate are configured correctly. For more information, see "Configuring the Windows Server Update Services server" on page 15.

About this task

This task requires a network connection to the Internet and a license. You can either use an HTTP Proxy to access the Internet or you can directly connect to the Internet. See "Setup Wizard" on page 14 for information about configuring the WSUS server.

Using the Publish Wizard:

This topic describes how to use the Publish Wizard and includes instructions for publishing updates to a target Windows Server Update Services server.

Procedure

1. Select an individual update or press **Ctrl** or **Shift** to select multiple updates to download.
2. From the **Actions** list, select **Publish Selected updates to WSUS** to start the Publish Wizard.

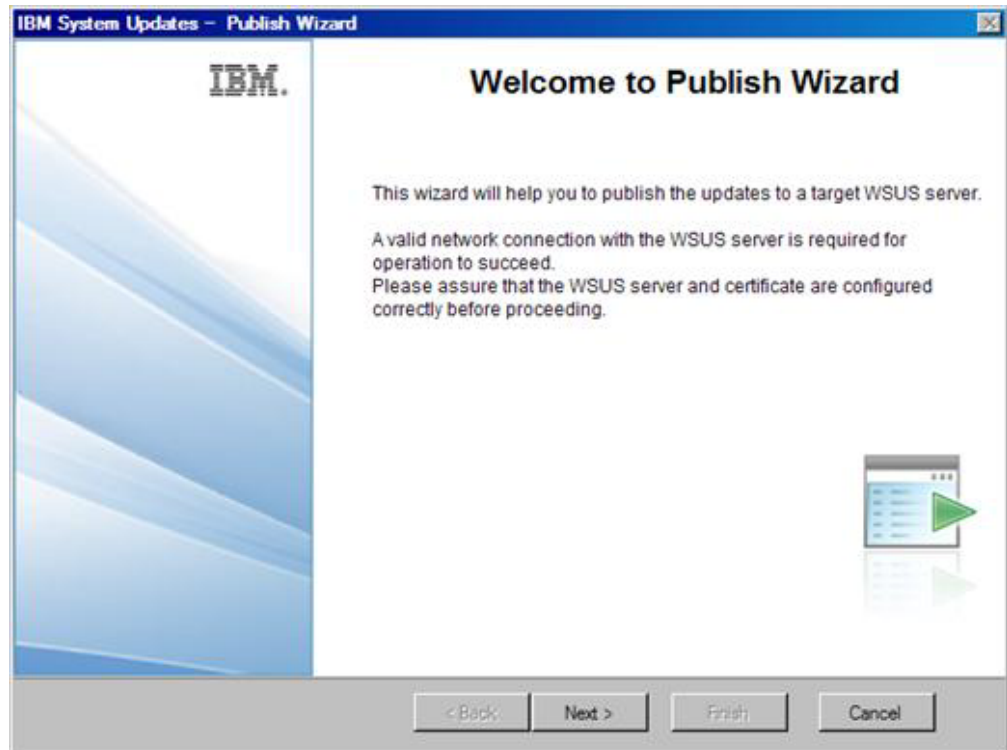


Figure 40. Publish Wizard Welcome

3. Complete the steps in "Using the Download and Publish Wizard" on page 39.

Creating an 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 the sequence package, it will automatically decide the order of the update installation.

You can save or reimport the sequence package for another deployment. The following figure is an example of saving a sequence called: my first sequence.xml.

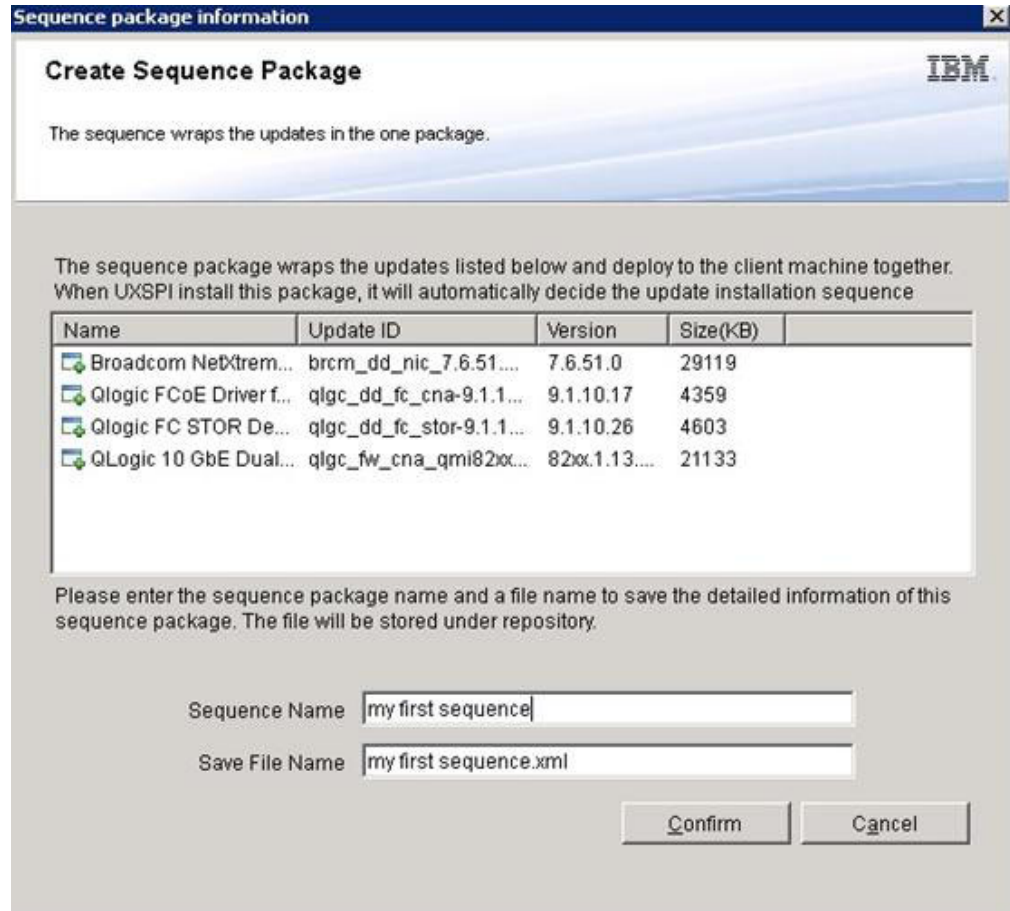


Figure 41. Create Sequence Package

The Updates list contains a list of available updates and the saved sequence "my first sequence".

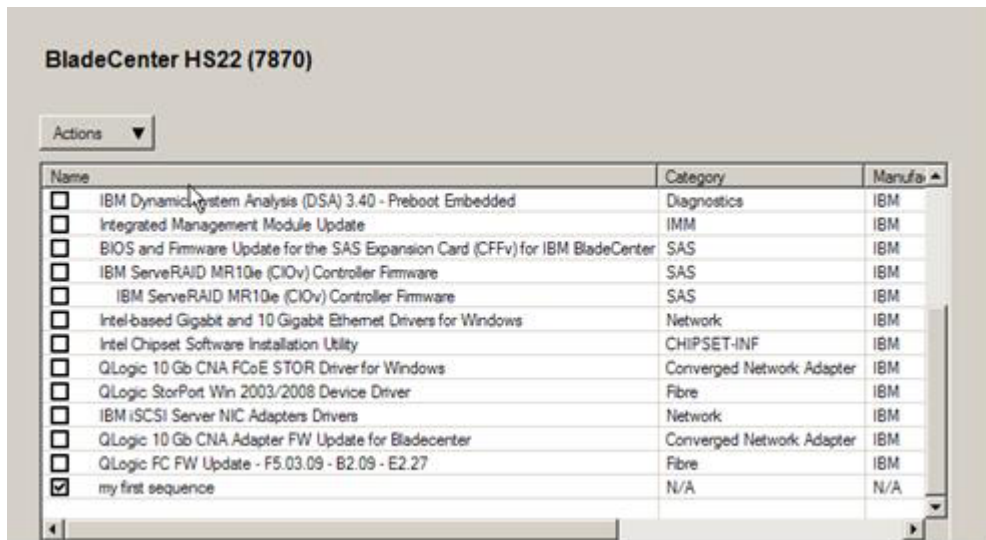


Figure 42. Updates list with saved sequence package

You can select **my first sequence** to view specific information for that sequence update package.

The **General** tab in the detail window displays a list of properties for the sequence package.

The Update ID contains the name of the sequence, the date, and a unique identifier.



Figure 43. Sequence update General tab

The Individual Updates tab provides a sequential list of the updates as shown in following figure.

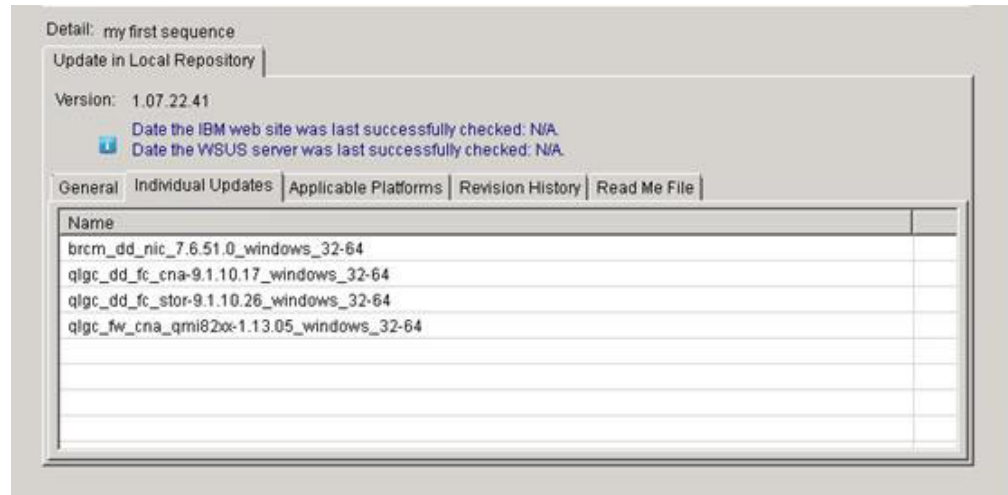


Figure 44. Individual Updates tab

Checking Windows Server Update Services updates

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

There are two methods for checking updates from the WSUS server:

- Check all updates from Windows Server Update Services.
- Check selected updates from Windows Server Update Services.

Checking all updates from Windows Server Update Services:

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

About this task

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

Procedure

1. In the navigation pane, click the **machine name**.
2. From the **Action** list, select **Check all updates from WSUS**.

The Check all updates from WSUS operation may take several minutes to complete. A progress window is displayed while the operation is being performed.

Checking selected updates from Windows Server Update Services:

This topic describes how to check for selected updates from the Windows Server Update Services (WSUS) server.

About this task

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

Procedure

1. In the navigation pane, click the **machine name**.
2. From the **Actions** list, select **Check selected updates from WSUS server**.

While the Check selected updates from WSUS server operation is being performed, the progress windows displays. It may take several minutes to complete this operation .

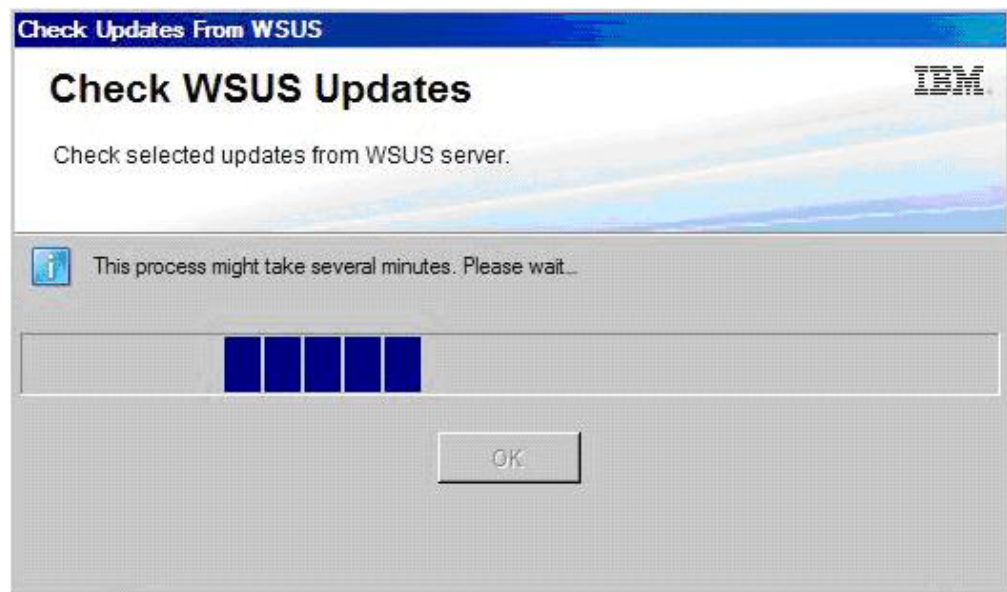


Figure 45. Check selected updates from WSUS

After checking the version of the updates on the WSUS 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.

Expiring selected updates from Windows Server Update Services

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

About this task

This task requires a network connection to the Internet and a license. You can either use an HTTP Proxy to access the Internet or you can directly connect to the Internet. See “Setup Wizard” on page 14 for information on configuring the WSUS server.

Important: The expire updates option cannot be rolled back.

Procedure

1. Select one or multiple updates and click **OK**.

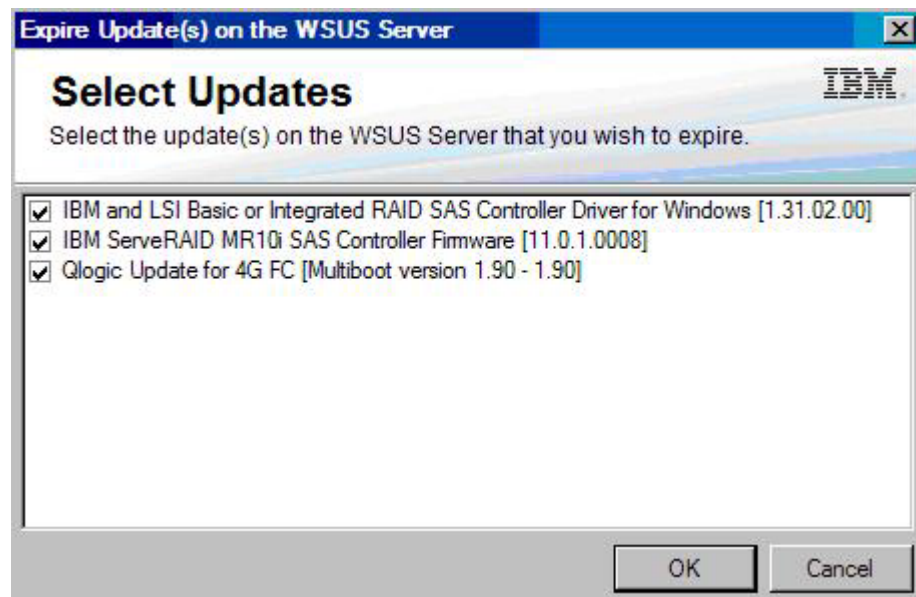


Figure 46. Expire Updates on WSUS Server

2. From the **Actions** list, select **Expire Selected updates to WSUS**. The Expire Wizard opens.

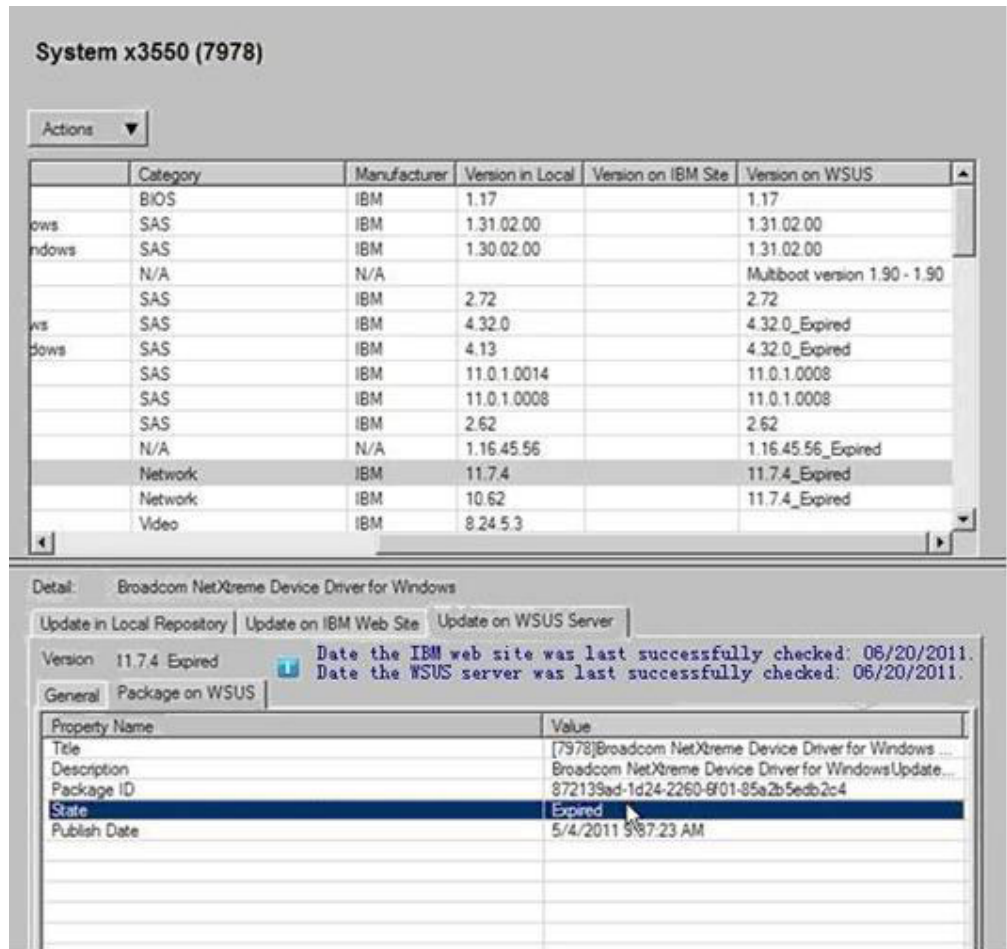


Figure 47. Expire updates detail view

After the expire operation completes, 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 changed to *Expired*.

Expiring selected updates to Windows Server Update Services server without a license

If you do not have a valid license, you can expire the selected updates to the Windows Server Update Services (WSUS) server, by using a different method from the fee-based solution. If the selected updates have not been published to the WSUS server already, the expire update action fails.

Procedure

1. Select individual or multiple updates to expire.

2. From the **Actions** list, select **Expire Selected updates to WSUS**. The Expire Wizard License Agreement page displays.



Figure 48. Expire Wizard License Agreement

3. Click **I accept the terms in the license agreement** and then click **Next** to proceed with expiring the selected updates. The Expire Wizard opens.

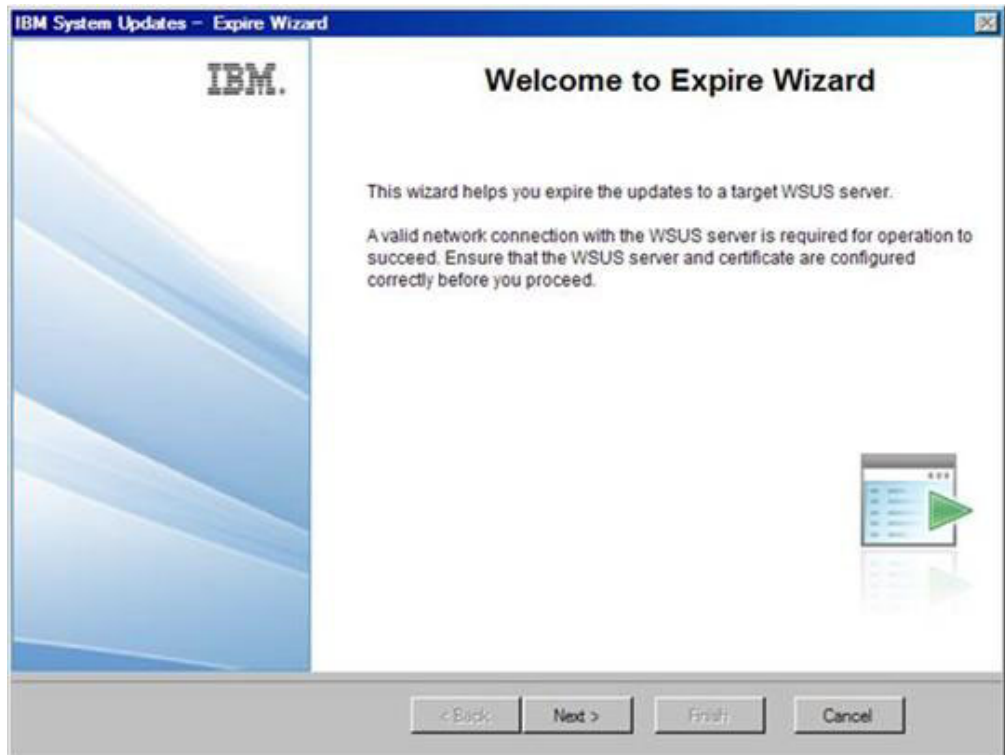


Figure 49. Expire Wizard Welcome

4. Click **Next**. The Expire Wizard Confirm update packages page opens.

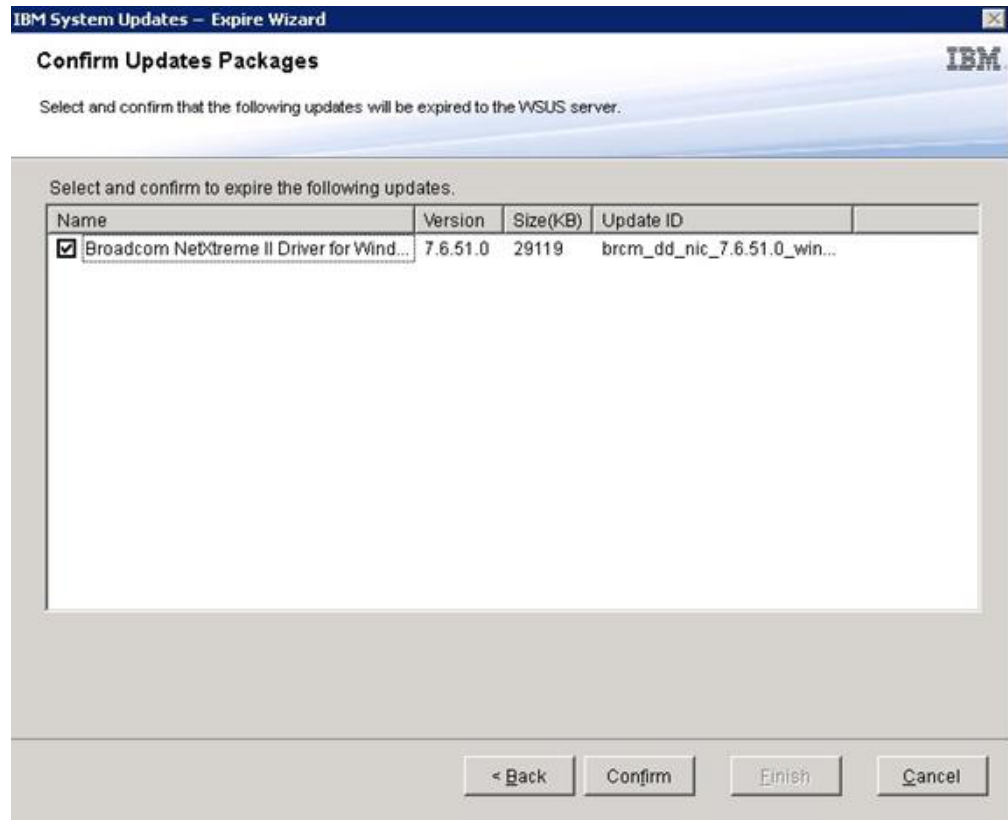


Figure 50. Expire Wizard Confirm update packages

5. Click **Confirm** to confirm the current expire choices or click **Back** to modify your previous selection of updates to expire. When the expiring updates operation completes, the expire updates status displays.

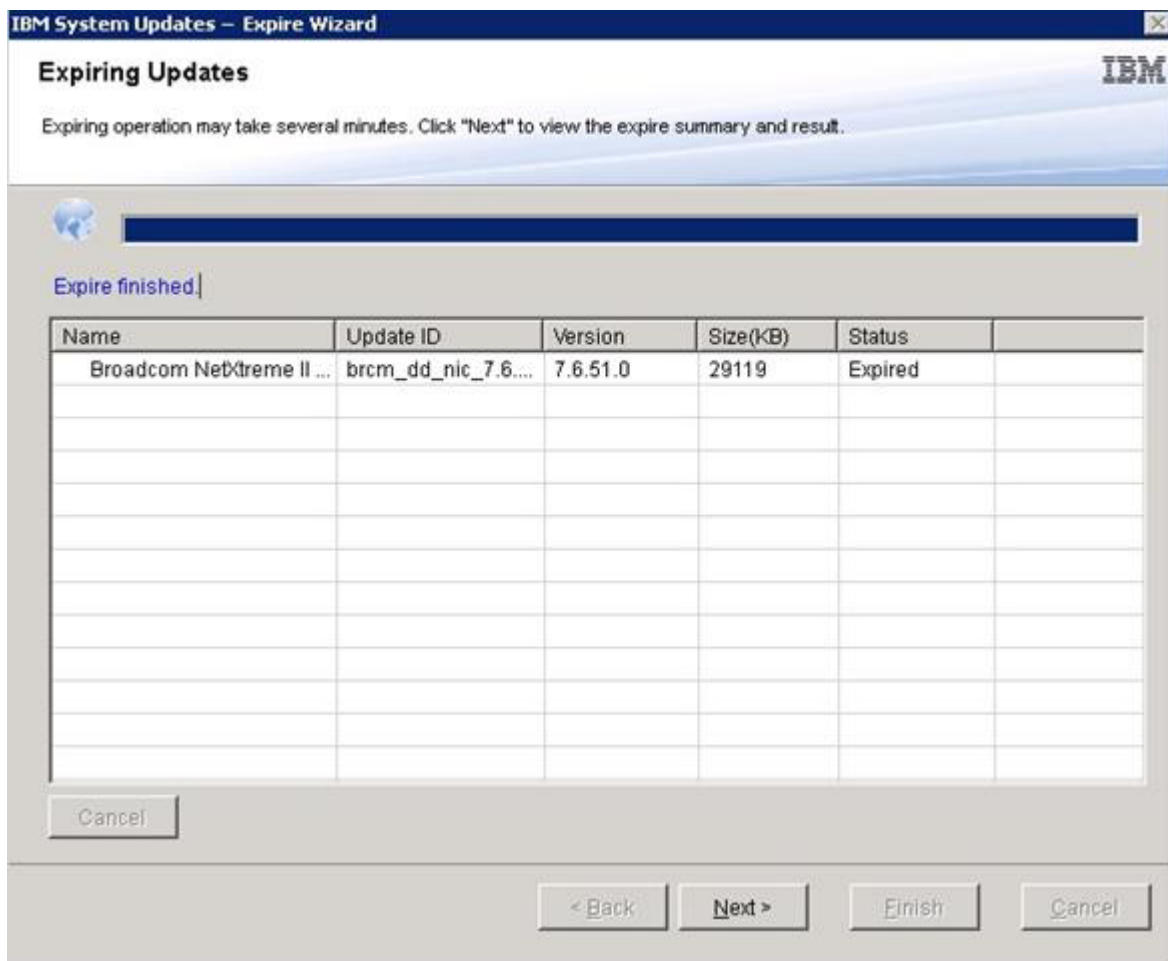


Figure 51. Expire operation completes

6. Click **Next**.

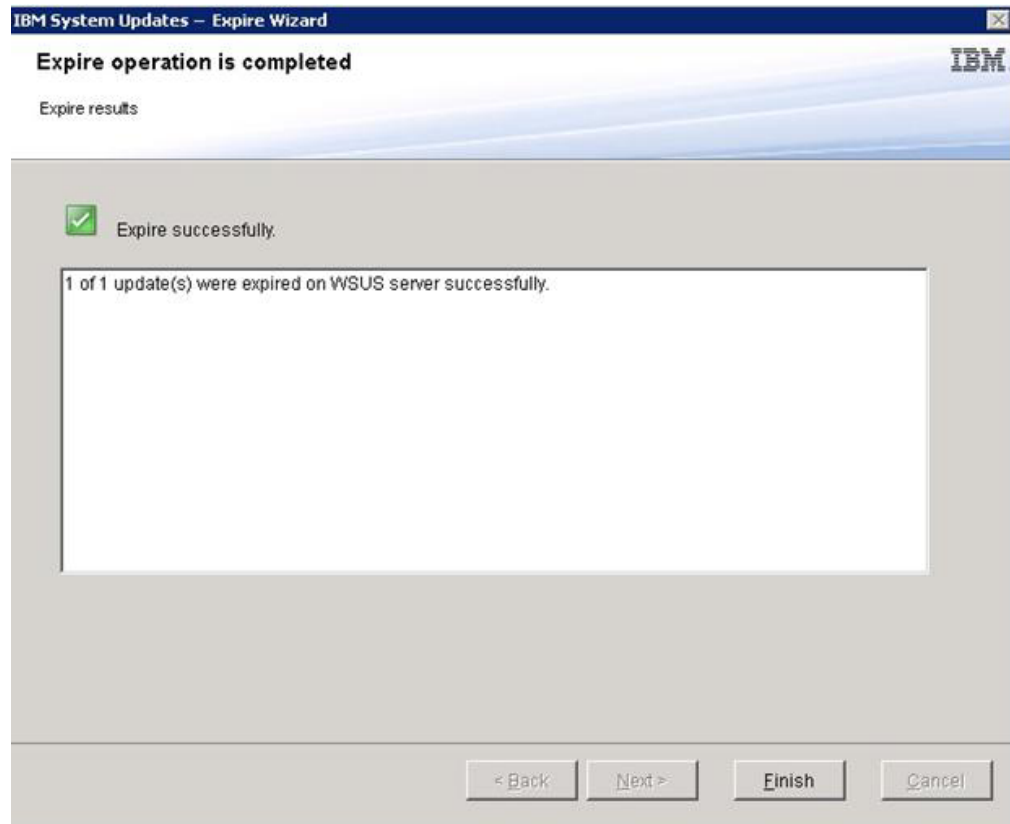


Figure 52. Expire operation results

7. Click **Finish** to exit the Expire Wizard.

Deleting selected updates

You can delete selected updates from IBM Updates Repository.

Click the **machine name**, then select **Delete selected updates** from the **Actions** list.

Adding and removing machine types using 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 from the list. The All Updates view is updated when changes are made in the My Machines view.

Procedure

1. In the navigation pane, click **My Machines**. In the right pane, a list of machines that you can manage with the System Updates tools is displayed.

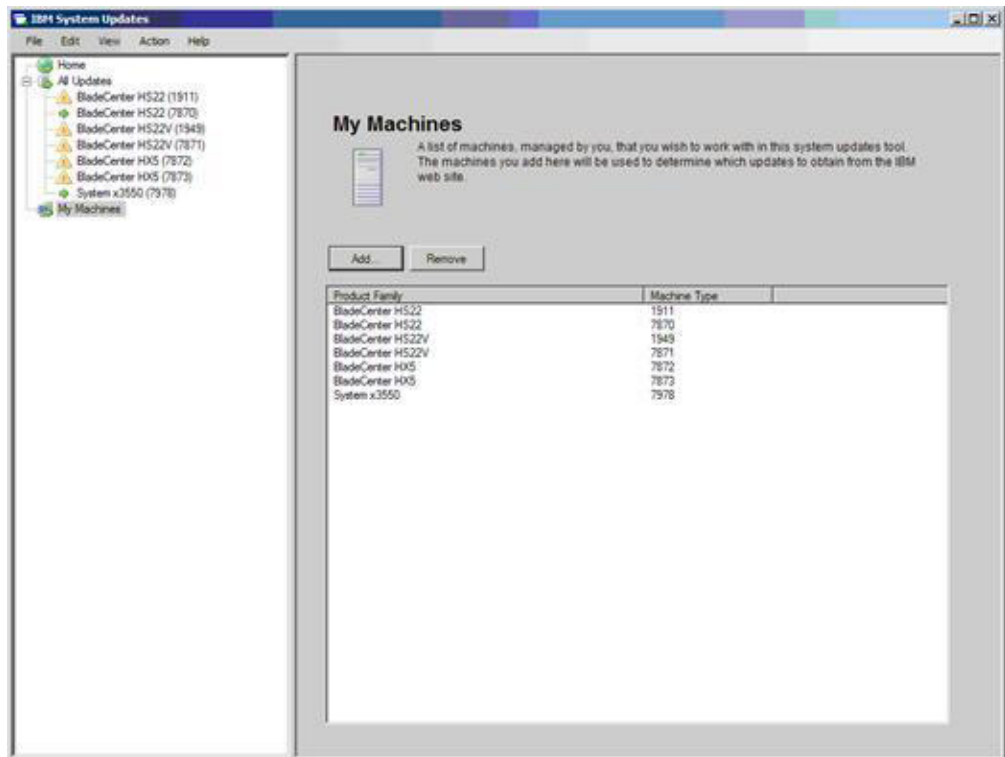


Figure 53. My Machines view

2. Click **Add** to open the Add New Machine Types dialog box.

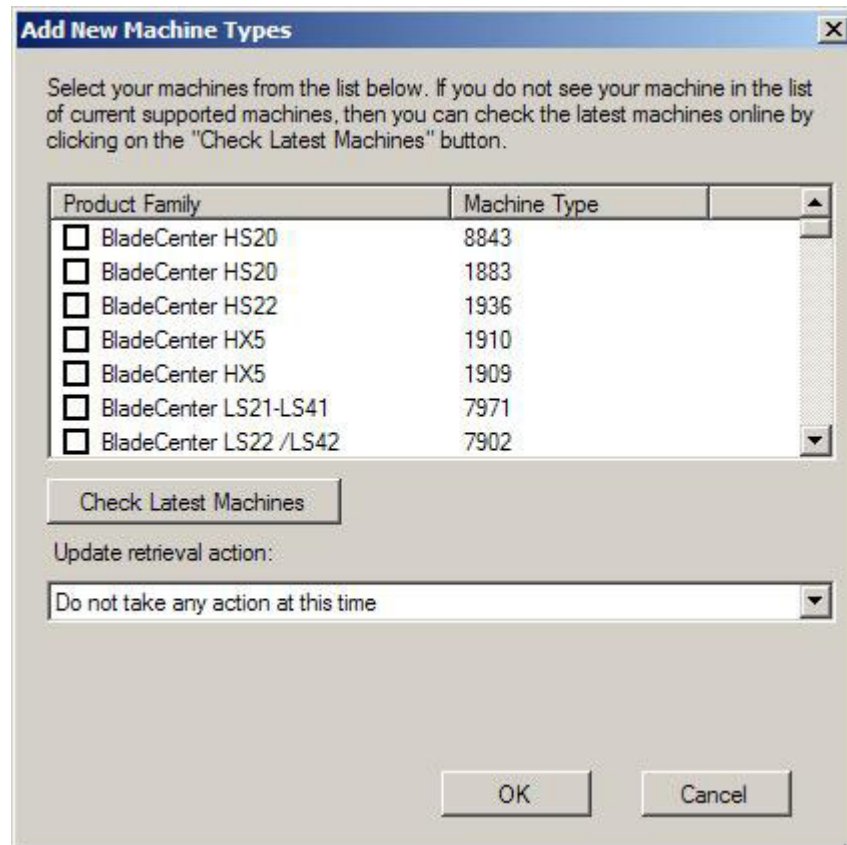


Figure 54. Add new machine types

3. Select one or multiple machines types. While adding new machine types, you can select an **Update retrieval action**.

The Update retrieval action has three options:

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

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

For more information about the **Check Latest Machines** option, see “Upgrading UXSPi” on page 27.

Generating an Updates Comparison Report

You can view updates managed by the IBM System Updates Acquisition and Publishing tool, by generating an Updates 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 Updates Report provides a list of updates managed by the IBM System Updates Acquisition and Publishing tool.

Procedure

1. From the **Start** menu, launch the IBM System Updates Acquisition and Publishing tool.
2. From the application menu bar, click **Action**, then select **Generate Updates Comparison Report** to start the Generate Updates Comparison Report Wizard.



Figure 55. Generate Updates Report Wizard Welcome page

3. Click **Next** to continue. The Generate Updates Comparison Report page opens.

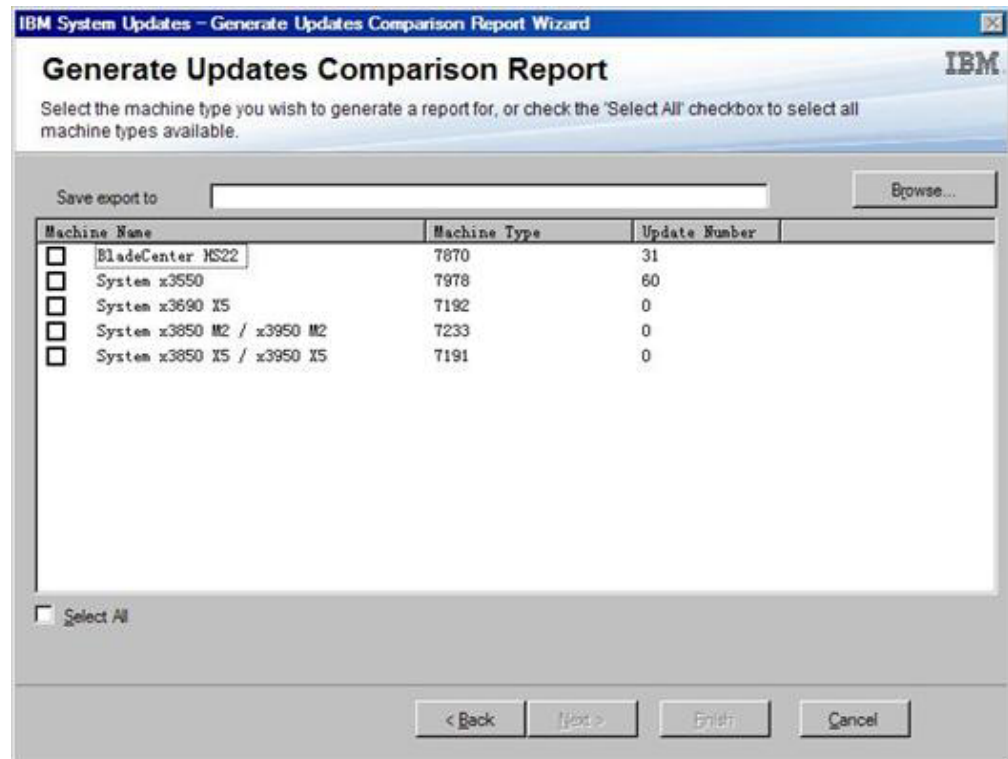


Figure 56. Generate Updates Comparison Report

4. Click **Browse** to select a location for the exported report.
5. Select one or more machine types to generate a comparison report, or click **Select All** to select all of the available machine types, and then click **Next**.

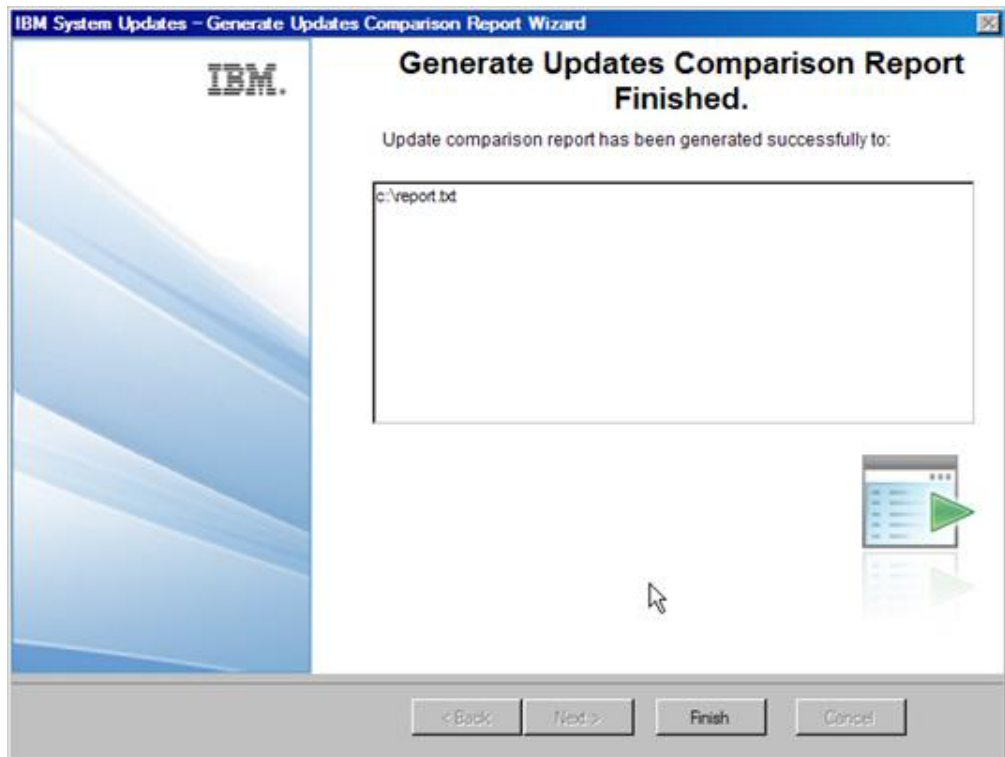


Figure 57. Generate Updates Comparison Report Finished

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

Viewing the journal of updates deployment results

You can view the journal of updates deployment results for the client machine. This information can assist you with troubleshooting and problem diagnosis.

The journal consists of the following information:

- Update ID
- Update Name
- Update Version
- Installation Date
- Deployment Result
- Detail

Using the View journal of updates deployment result

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

Procedure

1. From the **Start** menu, launch the IBM System Updates Acquisition and Publishing tool.
2. From the application menu bar, click **Action**, and select **Remotely View Journal of Update Deployments for Endpoints** to connect to remote client. The View journal of updates deployment log-in page opens.

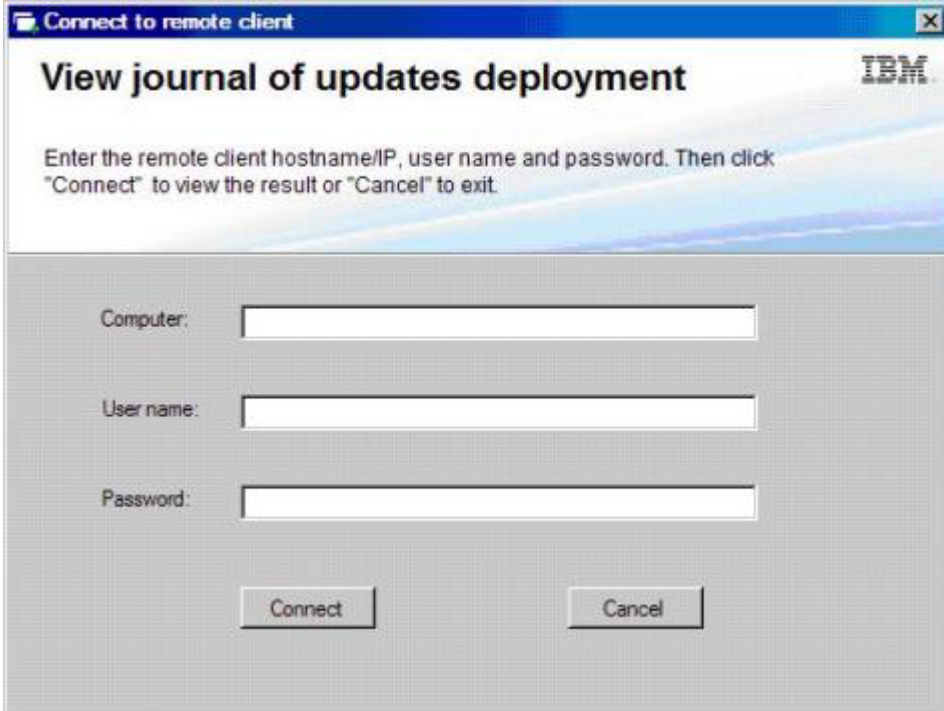


Figure 58. View journal of updates deployment log-in page

3. Enter the following remote client information on this page, and then click **Connect**.
 - Computer
 - User name
 - Password

If the IBM System Updates Acquisition and Publishing tool logs into the remote client successfully, the deployment history state is displayed in the result view.

Update ID	Update Name	Update Version	Installation Date	Deployment Result	Detail
ibm_dd_sraidm...	IBM ServeRAID M Series a		Thursday, Marc...	SUCCESS	Double Click to see Detail
ibm_dd_sraidm...	IBM ServeRAID M Series a		Thursday, Marc...	SUCCESS	Double Click to see Detail
brcm_dd_nic_5.2	Broadcom NetXtreme II Dn		Thursday, Marc...	Not Required	Double Click to see Detail
ibm_dd_sraidm...	IBM ServeRAID M Series a		Thursday, Marc...	SUCCESS	Double Click to see Detail
ibm_fw_bios_gfe...	IBM BIOS Flash Update	1.14 (GFE144A)	Friday, April 01,	SUCCESS	Double Click to see Detail
ls_fw_megasas...	MegaRAID 8480 SAS Cont	7.0.1-0064	Tuesday, April 1,	Not Required	Double Click to see Detail
ls_fw_megasas...	MegaRAID 8480 SAS Cont	7.0.1-0064	Monday, April 25,	FAILURE	Double Click to see Detail
ls_fw_megasas...	MegaRAID 8480 SAS Cont	7.0.1-0064	Monday, April 25,	FAILURE	Double Click to see Detail
ls_fw_megasas...	MegaRAID 8480 SAS Cont	7.0.1-0064	Monday, April 25,	FAILURE	Double Click to see Detail
ls_fw_megasas...	MegaRAID 8480 SAS Cont	7.0.1-0064	Thursday, April 2,	Not Required	Double Click to see Detail
ibm_fw_sacraid	IBM ServeRAID 8k and 8k		Friday, April 29,	SUCCESS	Double Click to see Detail
ibm_uli_uxsp_gfs	UXSP Package		Thursday, May 1,	SUCCESS	Double Click to see Detail
sequence_7578a	Sequence Package		Friday, May 13,	SUCCESS	Double Click to see Detail
sequence_7578a	Sequence Package		Friday, May 13,	SUCCESS	Double Click to see Detail
ibm_uli_uxsp_gfs	UXSP Package		Saturday, May 1,	SUCCESS	Double Click to see Detail
ibm_uli_uxsp_gfs	UXSP Package		Wednesday, Ma	SUCCESS	Double Click to see Detail
sequence_7578a	Sequence Package		Wednesday, Ma	SUCCESS	Double Click to see Detail
ibm_uli_uxsp_gfs	UXSP Package		Friday, May 27,	SUCCESS	Double Click to see Detail
ati_dd_video_8.2	ATI RADEON Video Driver	8.24.5.3	Friday, May 27,	SUCCESS	Double Click to see Detail

Figure 59. View journal of updates deployment result

4. To open and view a log file for an update, double click an **Update ID**, or select an **Update ID**, and press **Enter**. The log file can be one of the following files:
 - result.txt
 - co_result.xml
 - up_result.xml
 - an SUAP log file
5. To check the latest deployment result, click **Refresh**.
6. To exit the view journal updates deployment result, click **Close**.

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 of installed rules for each update.

IBM updates have rules to check Windows Management Instrumentation (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 2007*.

About this task

This task is performed from the Configuration Manager Console.

Procedure

1. From the **Start** menu, click **All Programs > Microsoft System Center > Configuration Manager 2007 > ConfigMgr Console** to launch the Configuration Manager Console.
2. In the navigation pane, expand **Site Database > Computer Management > Software Updates**. Right-click **Update Repository** under the Software Updates folder and select **Run Synchronization**.

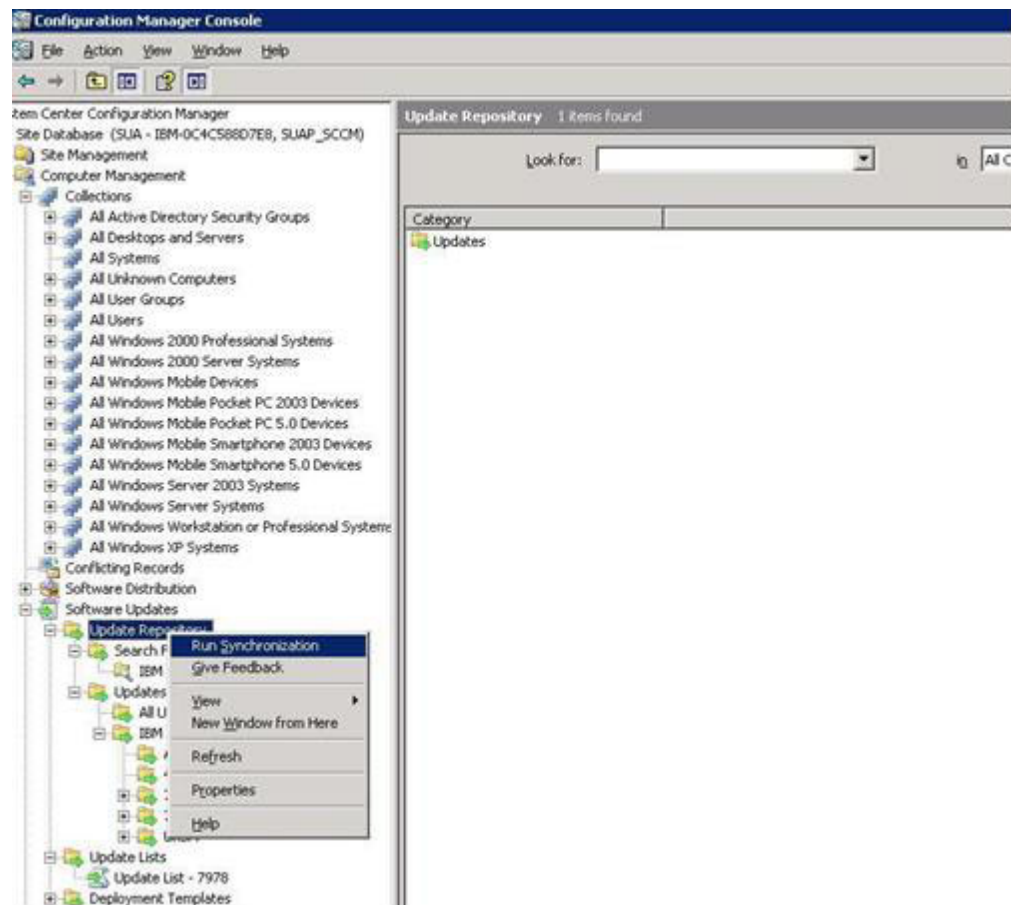


Figure 60. Synchronizing the Update Repository

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

What to do next

You can view the synchronization log to determine if there was a successful completion using the following steps:

1. In the navigation pane, expand **Site Database > System Status > Site Status**. Expand **site server**, and then select **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 Windows Server Update Services (WSUS) Sync Manager. Note the most recent message indicates when the synchronization process started, was in progress, and completed.

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

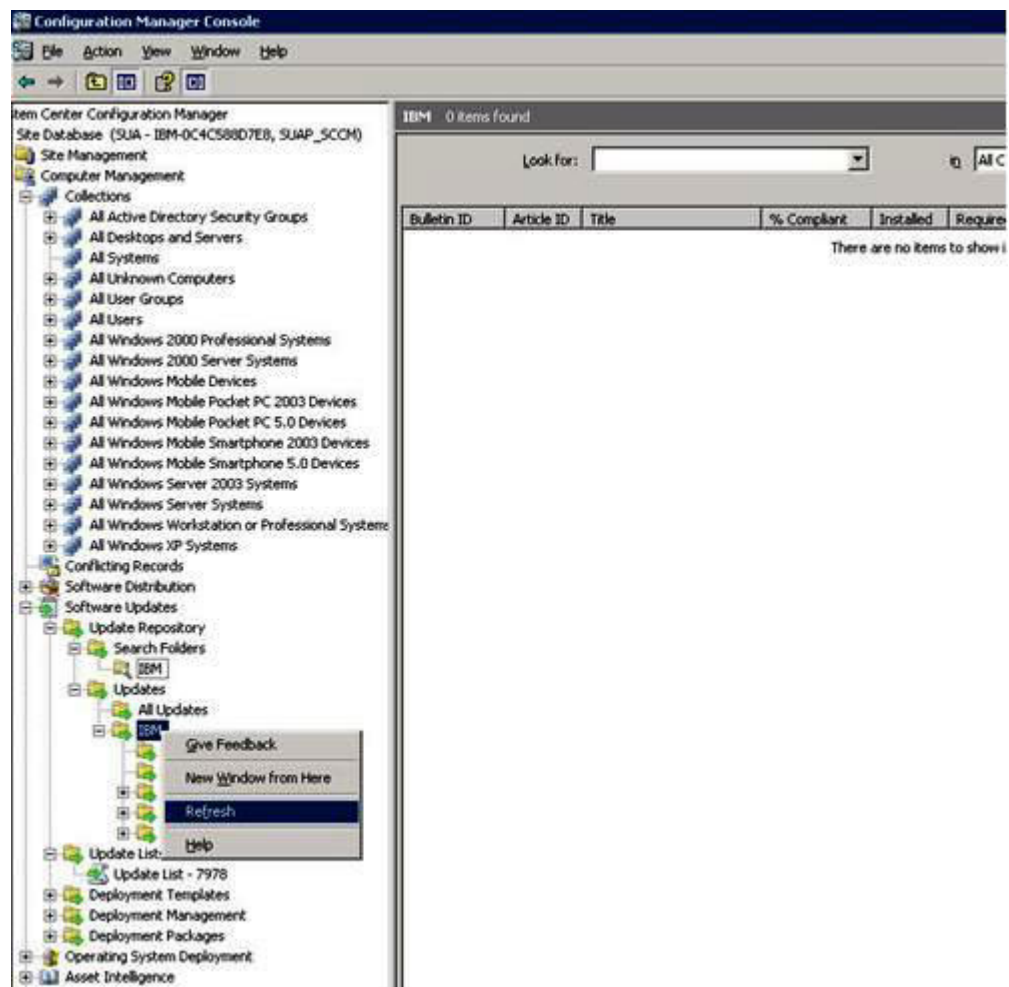


Figure 61. Refreshing the IBM folder

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

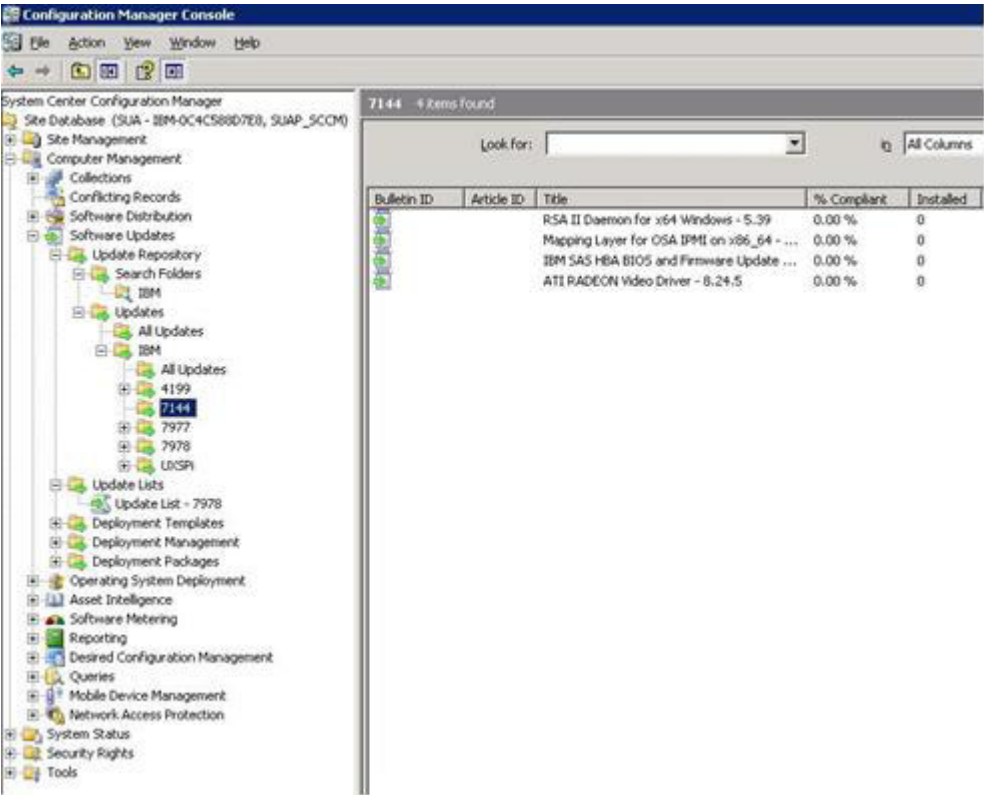


Figure 62. Viewing published updates

After updates have been deployed to their corresponding clients, during the next software update scan on the client systems, the clients report to the site database whether an 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 an update has been installed.

Required

Displays the number of clients reporting an 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 that are not applicable for an update.

Unknown

Displays the number of clients that have not had a successful scan for 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 a client system before all of the other IBM updates. If the UpdateXpress System Package is not deployed on a client system, the other IBM updates will be marked as **Not Required** on that client system. If the

target machine needs an IBM System Entitlement Pack (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 then 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 topics in this section use the sequence described above to introduce the IBM System Updates for Microsoft System Center Configuration Manager, v5.0 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

From the navigation pane, you can check the Site System Status and Component Status by expanding **Site Database > Site Status**. If the Site System Status and Component Status for all items are functioning normally, the SCCM server status is displayed as *OK*.

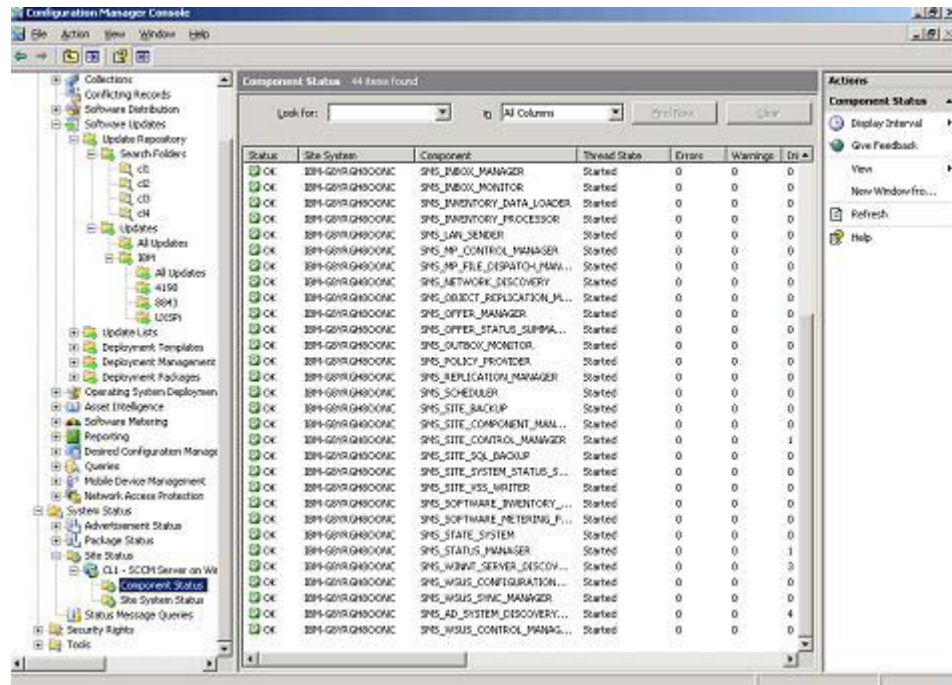


Figure 63. Component Status

Procedure

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

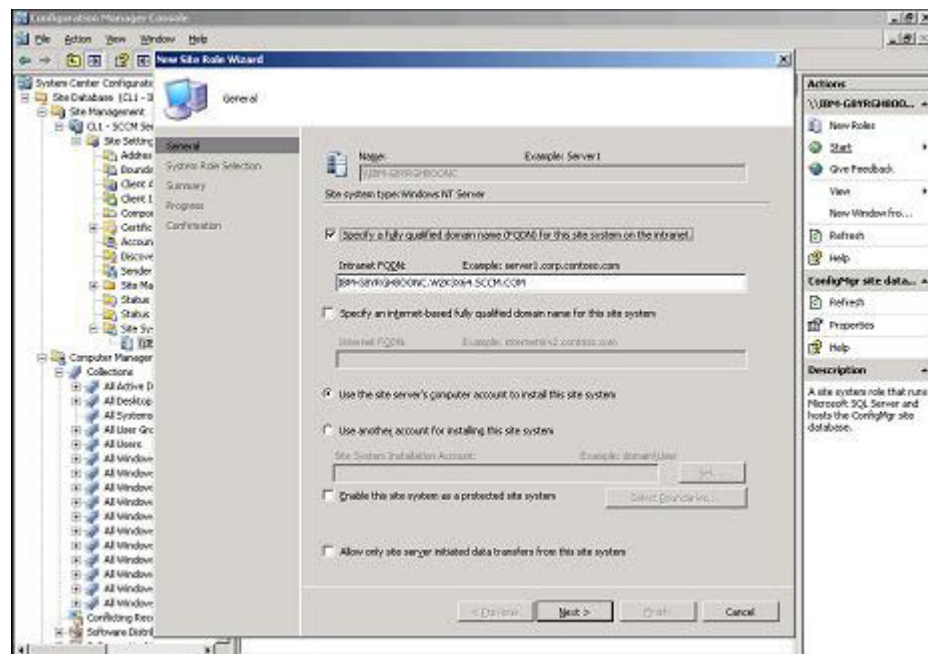


Figure 64. Configuring the system update service point

2. Click **Next**.
3. Select **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 Windows Server Update Services (WSUS) self-signing certificate on the client systems.

Note: 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.

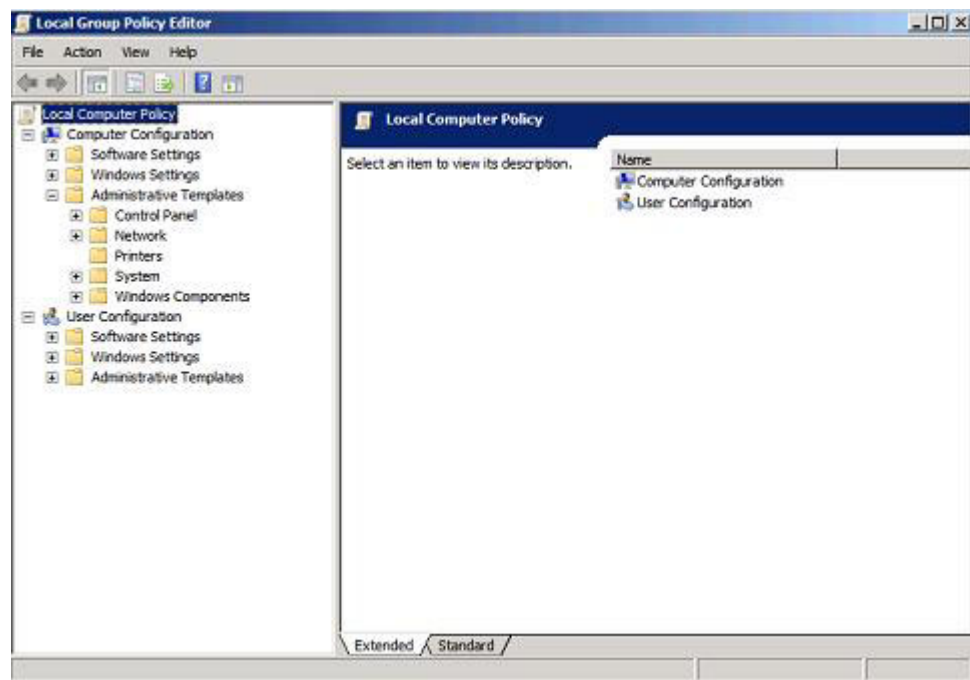


Figure 65. Local Computer Policy configuration

- 1) On the SCCM managed client operating system, click **Start** and select **Run**.
- 2) Enter GPEDIT.MSC and click **OK**.
- 3) Expand **Computer Configuration > Administrative Templates > Windows Components > Windows Update**.

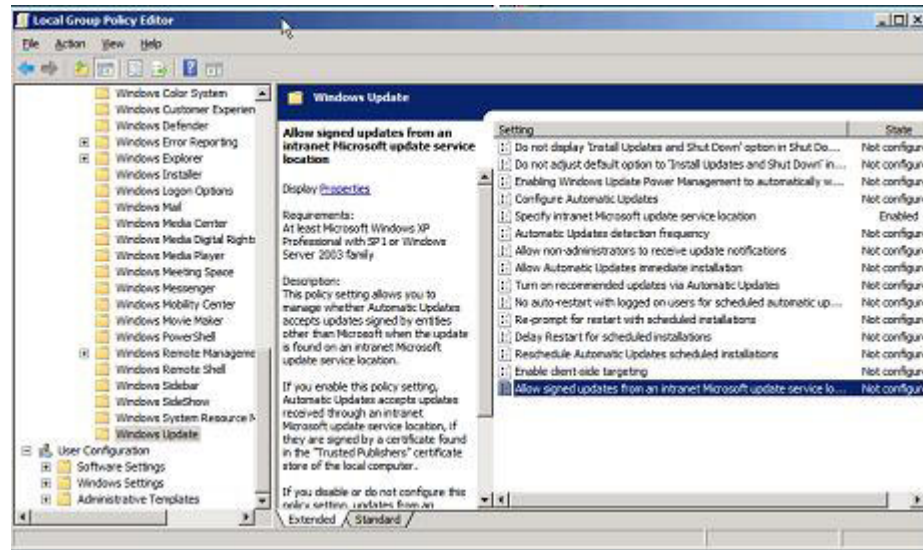


Figure 66. Allow signed updates from an intranet Microsoft update service location

- 4) Double-click **Allow signed content from intranet Microsoft up-date service location**.
- 5) Select **Enabled** and click **OK**. Close the Group Policy editor.
4. Make sure .NET Framework 2.0 or later is installed on the SCCM client before deploying IBM Updates to the SCCM client.

Deploying IBM System Enablement Pack from the SCCM server to SCCM client

This topic describes how to deploy the IBM System Enablement Pack (SEP) from the System Center Configuration Manager (SCCM) server to the SCCM client. The SEP is a package that contains system-specific codes. It is used to support new System x and Blade servers for IBM Dynamic System Analysis (DSA), firmware updates, and operating system deployment. If the target client relies on the SEP, you should deploy this package first.

About this task

The following procedure describes the steps for deploying an SEP package from the SCCM server to the SCCM client.

Procedure

1. Open the SCCM console.
2. Expand **Software Updates > IBM** and then double click the name of the machine.

3. In the right pane, right-click the SEP to be deployed, and then select **Deploy Software Updates**.

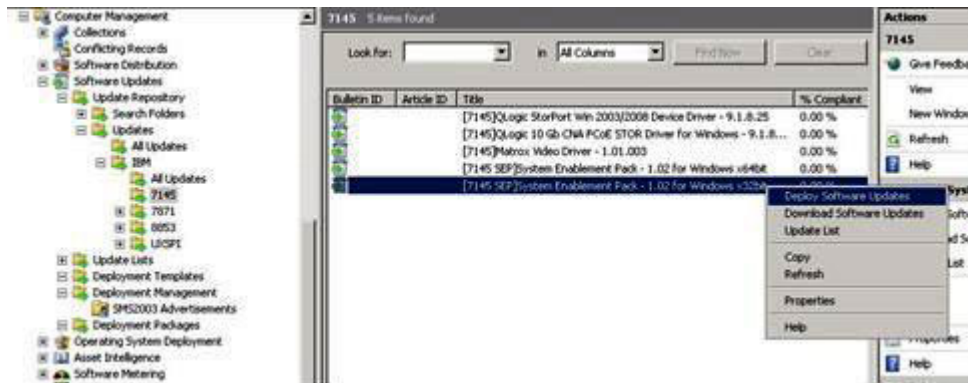


Figure 67. Deploy Software Updates

The Deployment Software Updates Wizard opens.

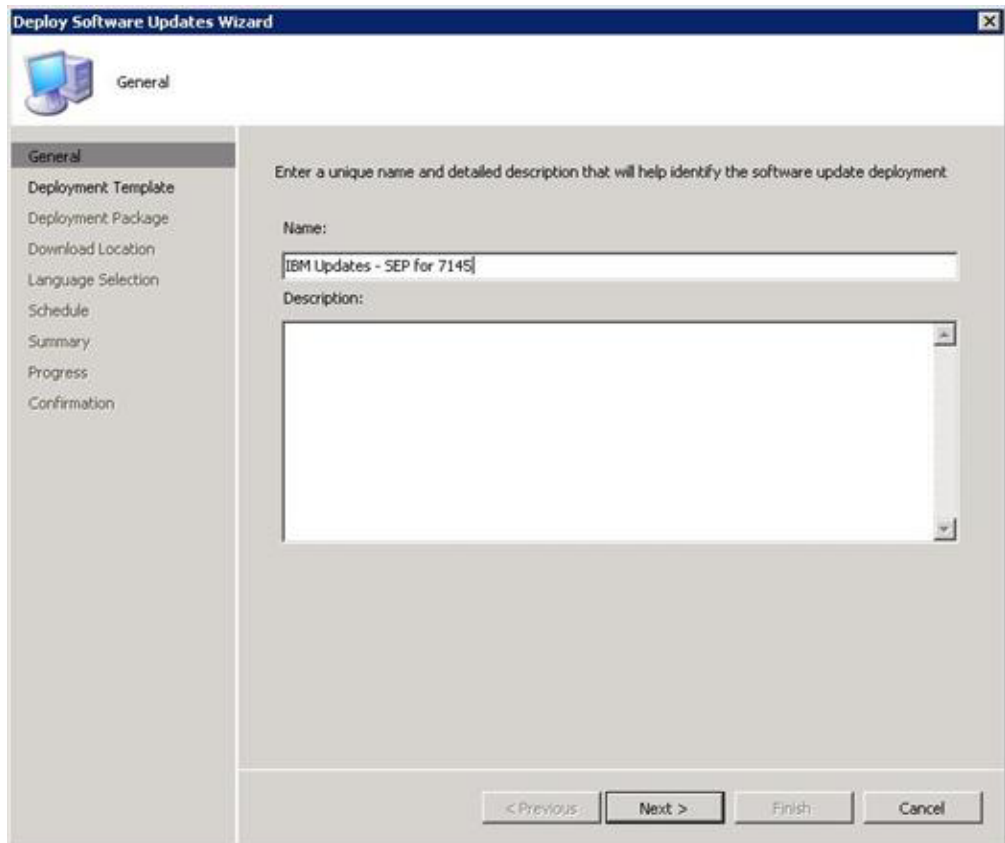


Figure 68. Deploy Software Updates Wizard - General

4. On the Deploy Software Updates Wizard page, enter the following information, and then click **Next**.
 - a. **Name**
 - b. **Description**

The Deployment Template page opens.

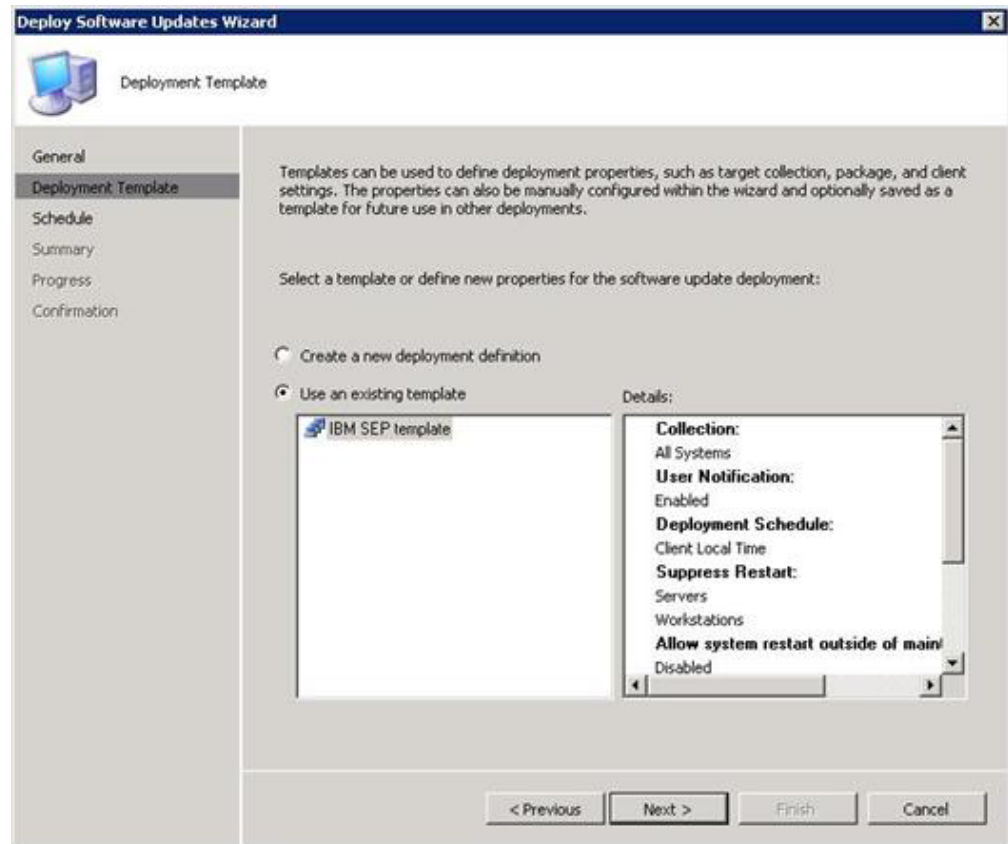


Figure 69. Deployment Software Updates Wizard Template

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

Figure 70. Deployment Package

6. On the Deployment Package page, enter the following information and then click **Next**:
 - a. In the **Name** field, enter the name of the SEP.
 - b. Click **Browse** to select the package source file location.
 - c. In the **Sending priority** field, select **Priority**.

The Download Location page is displayed.

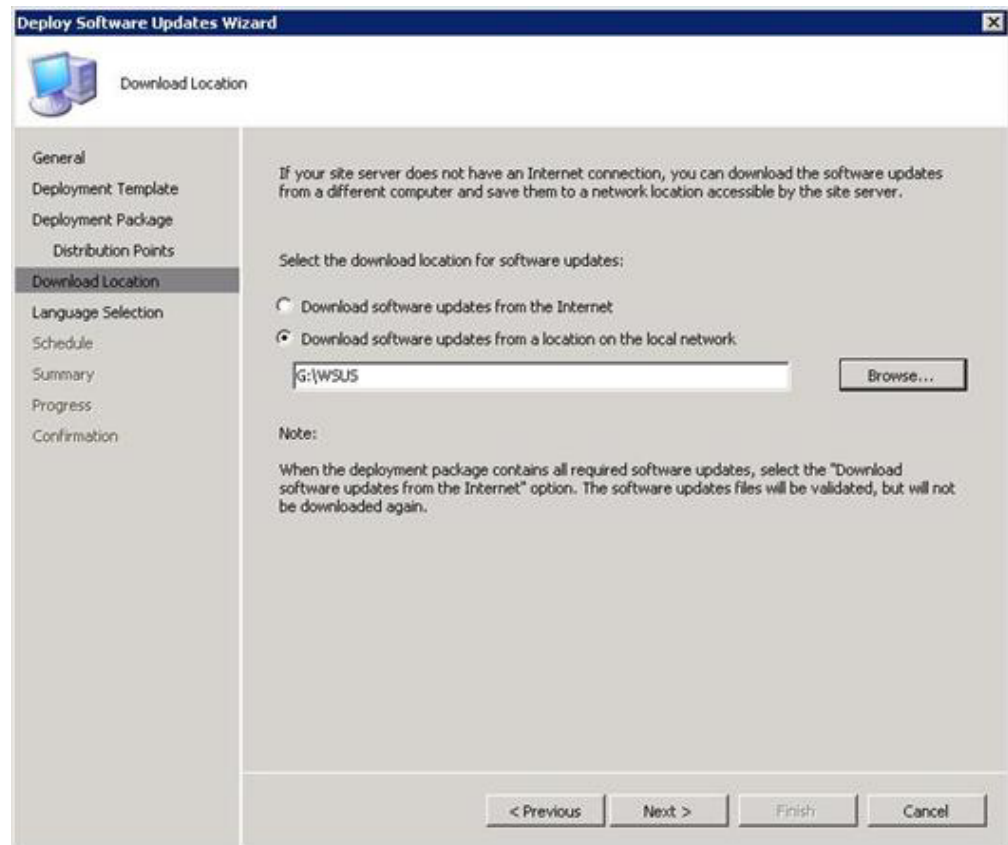


Figure 71. Download Location

7. Click **Download software updates from a location on the local network** to select the download location for the software updates.
8. Click **Browse** to select the software updates file and click **Next**. The Deployment Schedule page is displayed.

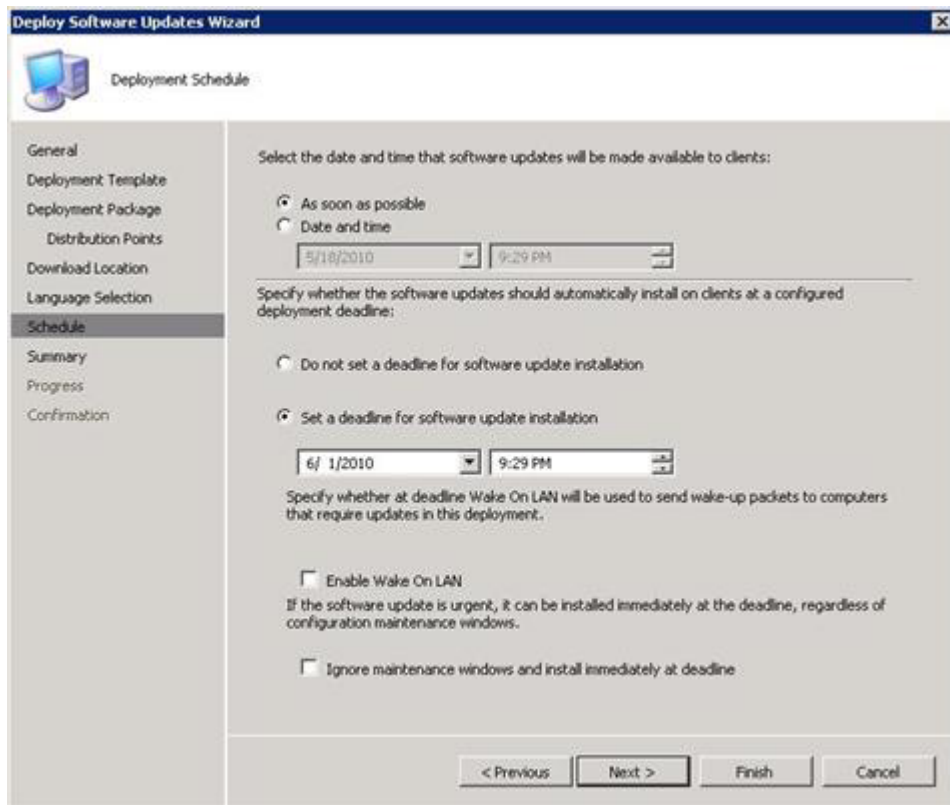


Figure 72. Deployment Schedule

9. On the Deployment Schedule page, make the following selections and then click **Next**:
 - a. Select the date and time for the software updates to be available on the clients.
 - b. Set a deadline for the software updates installation.
 - c. Optional: Enable **Wake on LAN** if the software updates are urgent.
 - d. Optional: Enable **Ignore maintenance schedule and install immediately on deadline**.

When the deployment has finished, the status is displayed.

10. Click **Close** to close the Deploy Software Updates Wizard.

Deploying IBM UXSPi from the SCCM server to the SCCM client

The UpdateXpress System Package Installer (UXSPi) is a prerequisite to all other IBM updates. It should be deployed to the 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 for different situations of deploying the package when it is upgraded to a newer UXSPi version.

Deploying IBM UXSPi from the SCCM server to the SCCM client if an existing UXSPi is not deployed

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

About this task

This task is performed from the Configuration Manager Console.

Procedure

1. From the **Start** menu, click **All Programs > Microsoft System Center > Configuration Manager 2007 > ConfigMgr Console** to launch the Configuration Manager Console.
2. In the navigation pane, expand **Site Database > Computer Management > Software Updates > Update Repository > Updates > IBM > UXSPi**. In the results pane, right-click the UXSPi to be deployed and select **Deploy Software Updates**.

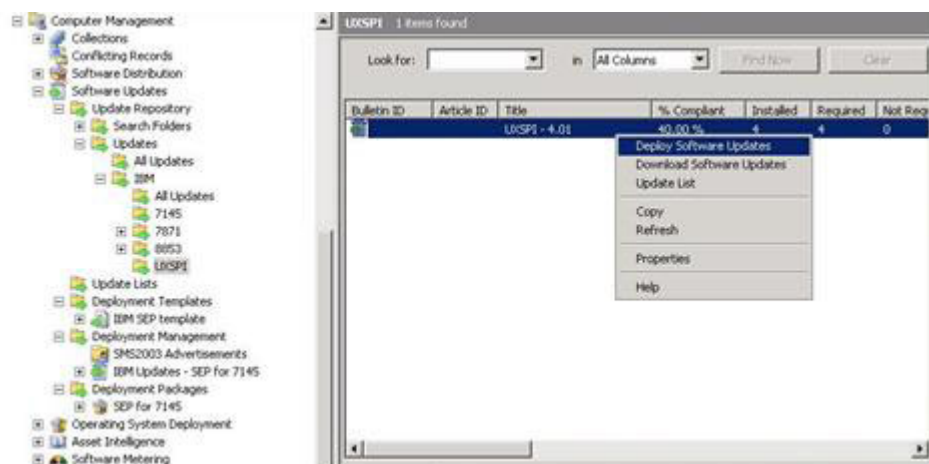


Figure 73. Deploying UXSPi to an SCCM client

3. Follow steps 4 through 10 in “Deploying IBM System Enablement Pack from the SCCM server to SCCM client” on page 69 to finish deploying the software updates.

Deploying IBM UXSPi from the SCCM server to the SCCM client if a earlier version of UXSPi is deployed

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

Method 1 for deploying IBM UXSPi 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 for this scenario. For 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. From the **Start** menu, select **All Programs > Microsoft System Center > Configuration Manager 2007 > ConfigMgr Console** to launch the Configuration Manager Console.
2. Right-click the old UXSPi deployment package under **Deployment Management** and select **Delete**.

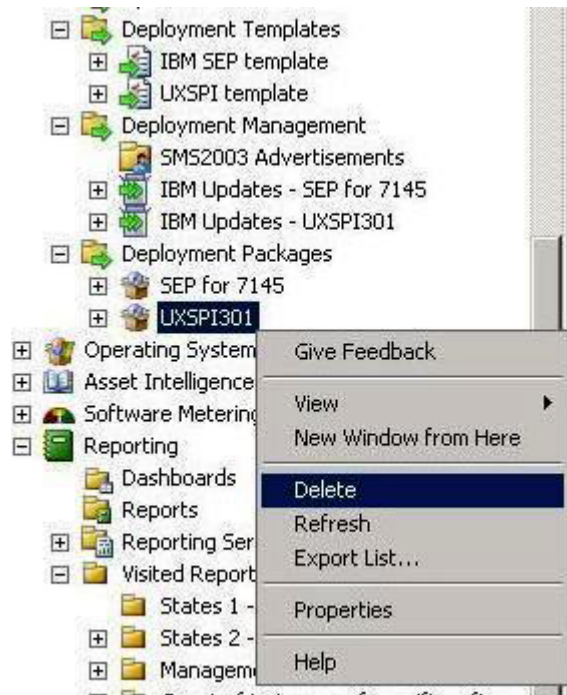


Figure 74. Deleting the old UXSPI advertisement

3. Right-click the UpdateXpress System Package to be deployed under **UXSPI machine** category and select **Deploy Software Updates**.

Follow the procedure described in “Deploying IBM System Enablement Pack from the SCCM server to SCCM client” on page 69, starting with step 4.

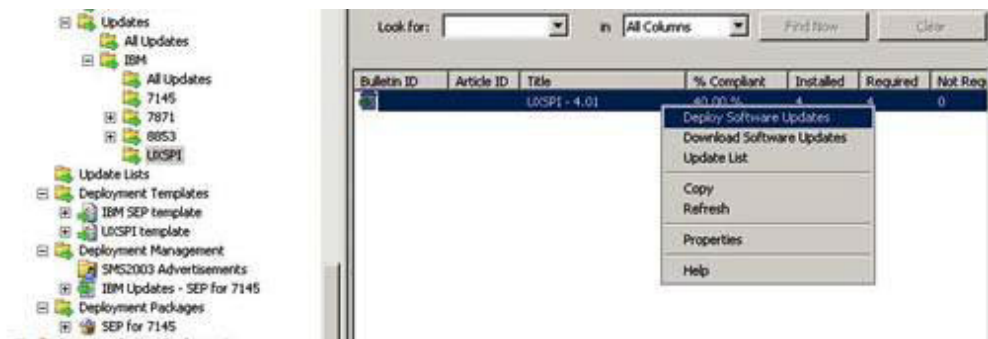


Figure 75. Deploying the UXSPI software package

Method 2 for deploying IBM UXSPi 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. From the **Start** menu, click **All Programs > Microsoft System Center > Configuration Manager 2007 > ConfigMgr Console** to launch the Configuration Manager Console.
2. Right click the **UXSPi** to be deployed under the **UXSPi machine** category, and select **Deploy Software Updates**.

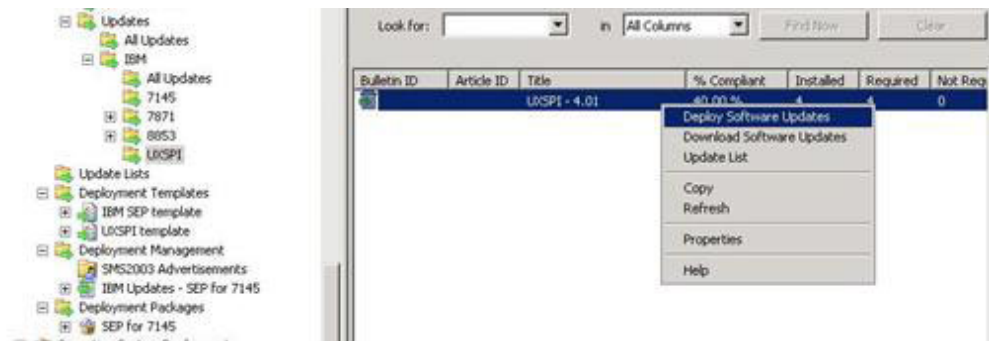


Figure 76. Deploying software updates when new and old packages coexist

3. For this step, follow the procedure described in "Deploying IBM System Enablement Pack from the SCCM server to SCCM client" on page 69, starting with step 4.

Method 3 for deploying the IBM UXSPi 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**.

The screenshot shows the 'Deploy Software Updates Wizard' dialog box, specifically the 'Deployment Package' step. The left sidebar contains a list of steps: General, Deployment Template, Deployment Package (selected), Download Location, Language Selection, Schedule, Summary, Progress, and Confirmation. The main area has a title bar 'Deploy Software Updates Wizard' and a subtitle 'Deployment Package'. Below the subtitle is a description: 'The deployment package contains the software update files that will be available to clients as part of the deployment.' and a prompt: 'Select a package, or create a new deployment package.' There are two radio buttons: 'Select deployment package' (selected) and 'Create a new deployment package'. Under 'Select deployment package', there is a text box containing 'UXSPI301' and a 'Browse...' button. Under 'Create a new deployment package', there are fields for 'Name:', 'Description:', 'Package source:', and 'Sending priority:'. The 'Package source:' field has a 'Browse...' button. The 'Sending priority:' field is a dropdown menu set to 'Medium'. There is also a checkbox for 'Enable binary differential replication' which is unchecked. At the bottom right are buttons for '< Previous', 'Next >', 'Finish', and 'Cancel'.

Figure 77. 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

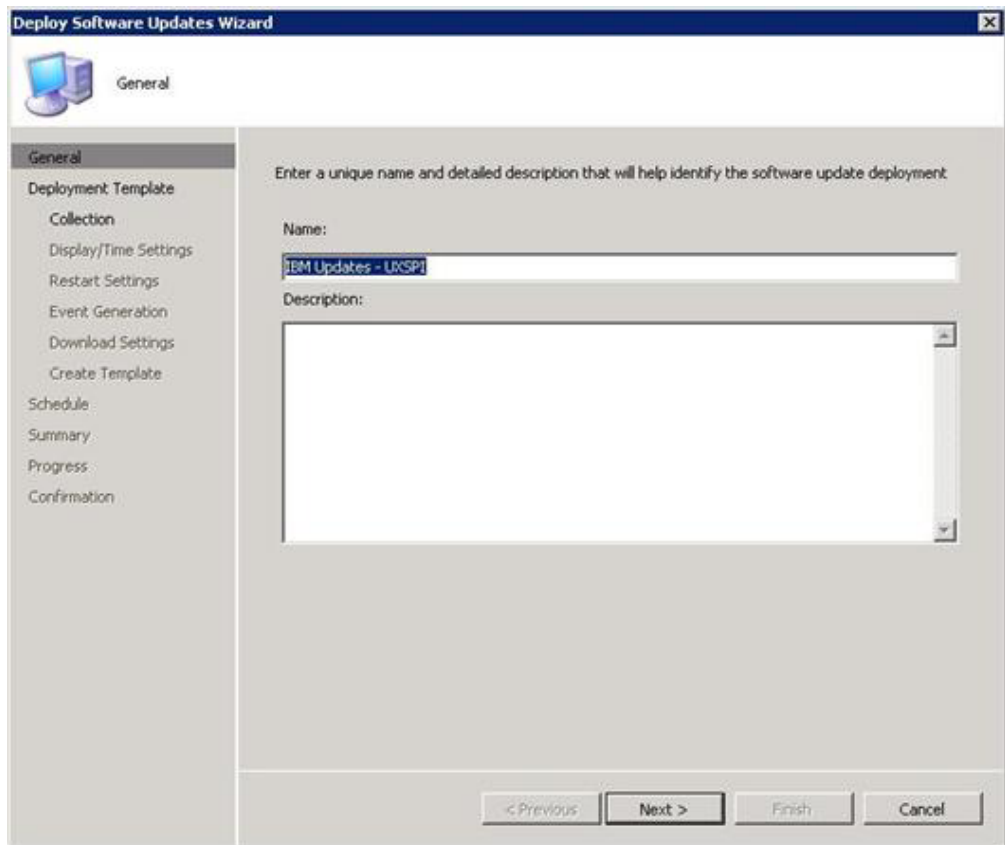


Figure 78. Software updates - General

3. Click **Create a new deployment definition** or click **use an existing template**. Click **Next**.

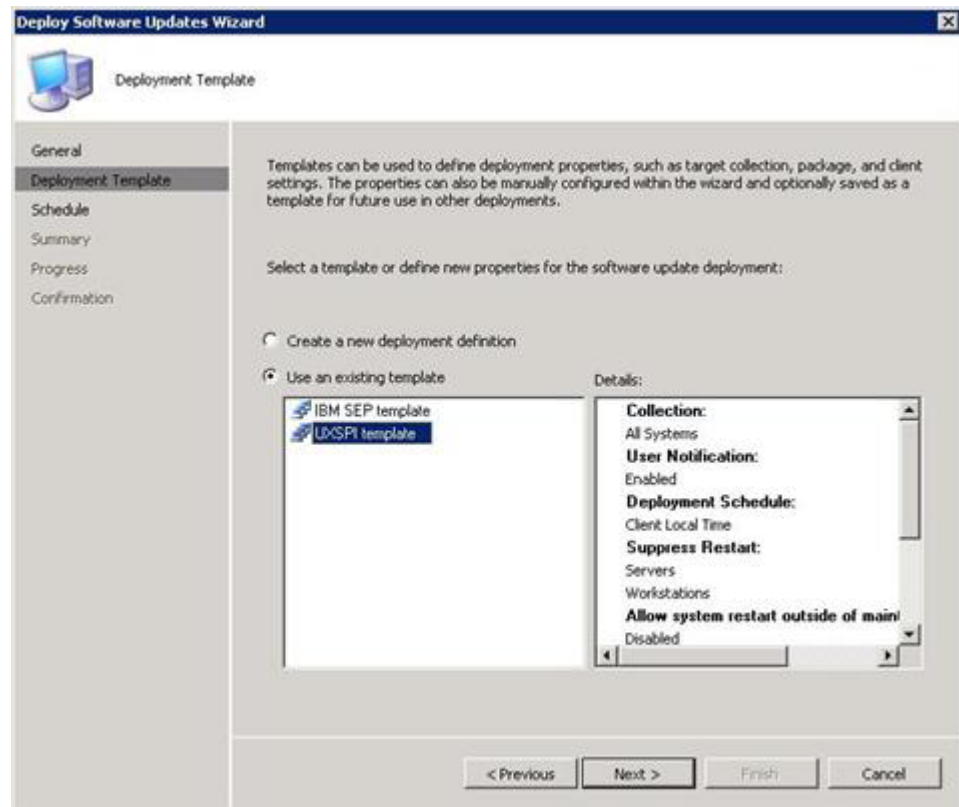


Figure 79. Selecting the UXSPI deployment template

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

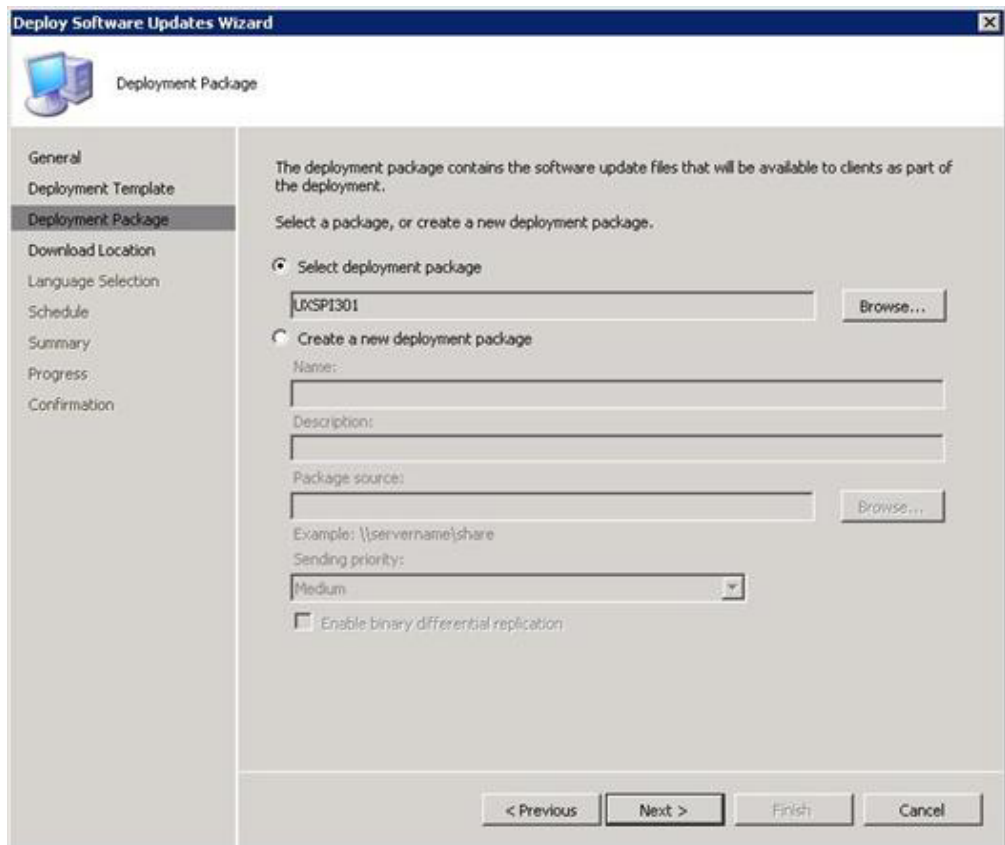


Figure 80. Selecting an existing UXSPI deployment package

5. For the remaining steps in this procedure, complete steps as described in "Deploying IBM System Enablement Pack from the SCCM server to SCCM client" on page 69, 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(SCCM) server must already be set up and configured for the environment. For information about how to set up the SCCM, 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 navigation pane, expand **Software Library > Overview > Software Updates**.

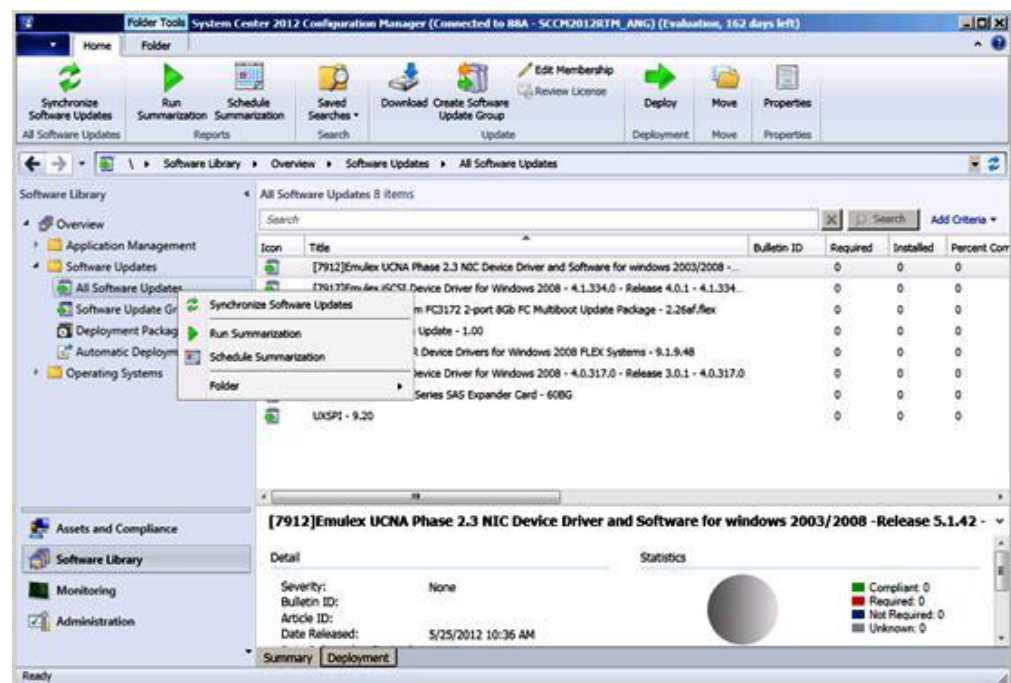


Figure 81. Synchronizing the Update Repository

3. Expand Software Updates, right-click **All Software Updates** and select **Synchronize Software Updates**.
4. Click **Yes** to initiate a site-wide software update synchronization. The synchronization process may take a few minutes to complete. There is no graphical indication that the process has completed.
5. After synchronization has successfully finished, refresh updates by clicking the **Refresh** button of Navigation Bar as shown in the following figure.

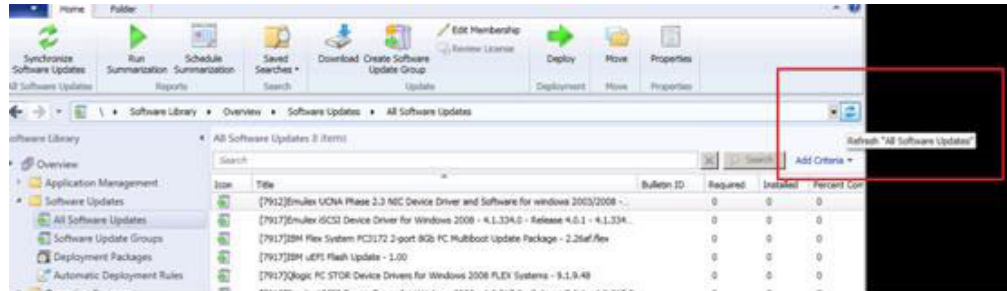


Figure 82. Refreshing updates

6. To see if the synchronization process completed successfully, by completing the following steps.
 - a. In the navigation 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 **SMS_WSUS_SYNC_MANAGER** and select **Show Messages > All**. The SMS Status Message Viewer for the site server window opens with the status messages for the WSUS Sync Manager. Note the most recent message which indicates when the synchronization process started, when it was in progress, and whether it completed.

Viewing published updates

The following procedure describes how to view published updates.

About this task

This task is performed from 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 navigation pane, expand **Overview > All Software Updates**. and right-click **All Software Updates**.



Figure 83. 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 the 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

Indicates the clients for which the update has been installed.

Required

Indicates the clients for which the update has been installed, reporting that either the update is applicable and not yet installed, or that the installation status has not reached the site server database.

Not Required

Shows the number of clients for which an update is not applicable.

Unknown

Displays the number of clients for which an update is not applicable, 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 the 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 a SEP package, deploy the SEP package before deploying the UXSPi package.

After the UXSPi package has been successfully deployed, if one update has not been deployed on the client system, the compliance result of the update will be marked as “Required”.

Deploying IBM Updates in System Center Configuration Manager

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

When clients of the targeted collections receive a new deployment package 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 completed by the IBM SUAP tool.

The other topics in this section provide detailed information about implementing the IBM System Updates for Microsoft System Center Configuration Manager, v5.0 solution.

Checking IBM updates deployment prerequisites

Perform the following procedure to check the prerequisites for deploying IBM updates.

About this task

This task is performed from 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 navigation pane, expand **Overview**. Select one or more of the following to view status.
 - **Site Status**
 - **Component Status**
 - **Site Systems Status**

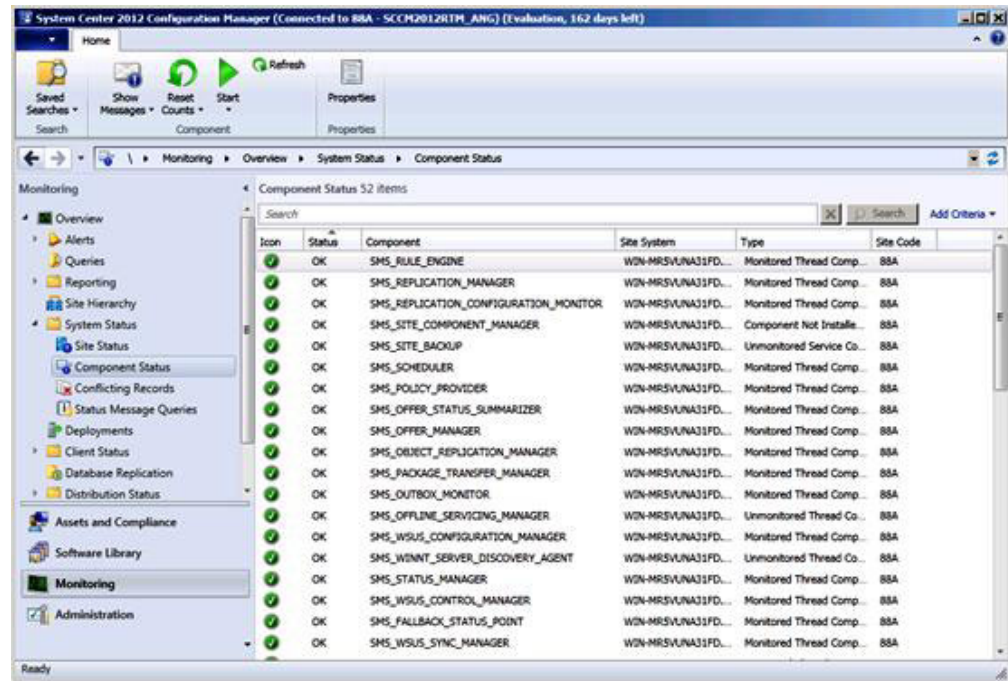


Figure 84. Component Status

If the component is functioning normally, the site status, component status, and site system status displays as OK, and 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 from the Configuration Manager Console.

Procedure

1. In the navigation pane, expand **Administration > Overview > Site Configuration > Configuration Manager > Servers and Site System Roles > %Site Name%**.
2. Right click **%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.

The Select a server to use a site system page opens.

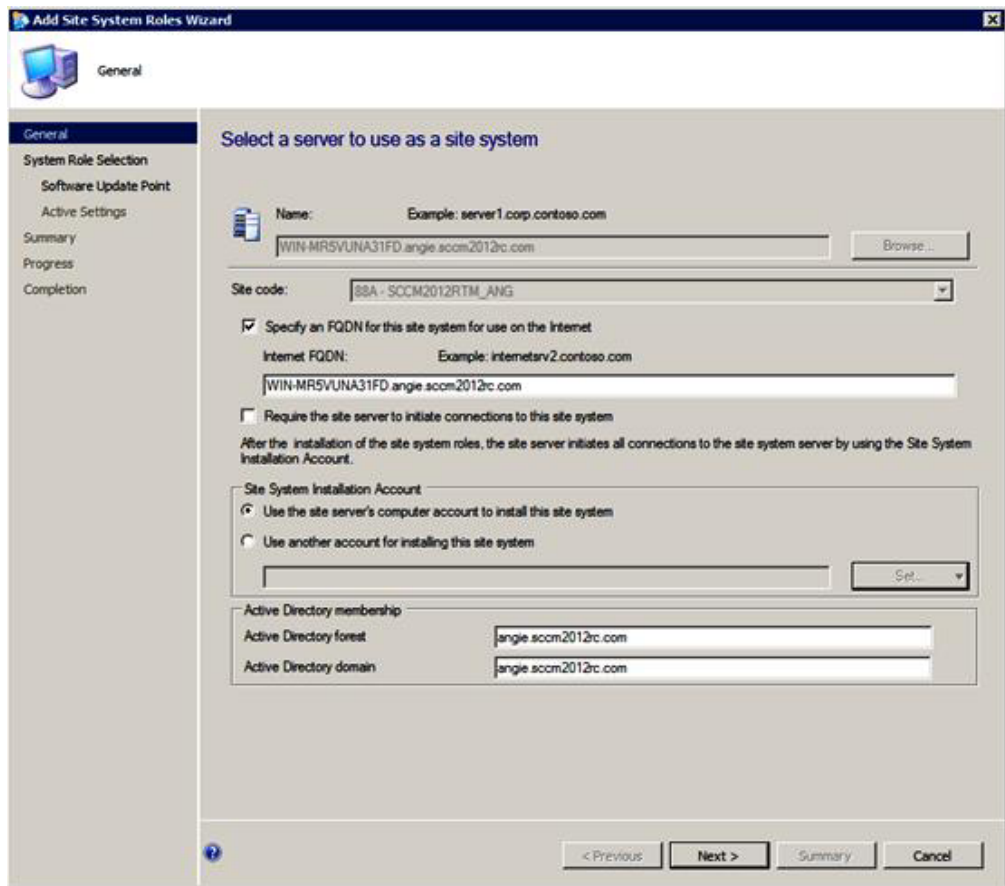


Figure 85. Select a server to use as a site system

6. Accept the default setting for configuring the system update service point.

Configuring the client machine

After adding a system update service point, you must configure the client machine to receive updates.

About this task

This task is performed from 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. Discover the client systems and install the management agent through the System Center Configuration Manager (SCCM) server.
3. Configure the Windows Server Update Services (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.
4. Check the Allow Signed Content from the intranet Microsoft update service Location on the SCCM Client using the Windows group policy editor.
5. 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**.

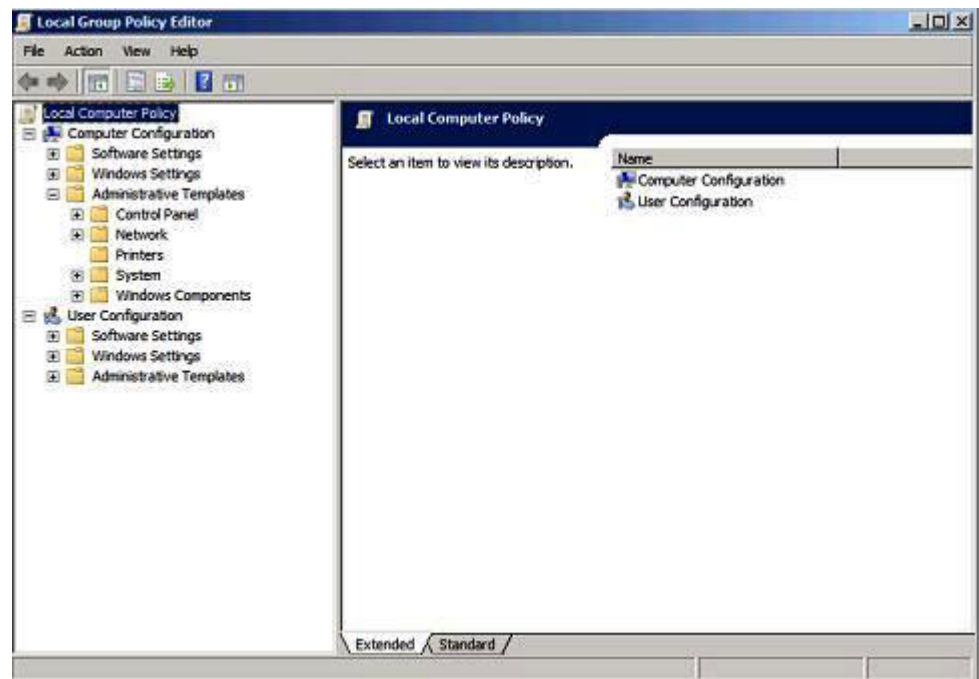


Figure 86. Local Computer Policy configuration

- c. Double-click **Allow signed content from intranet Microsoft update service location**.

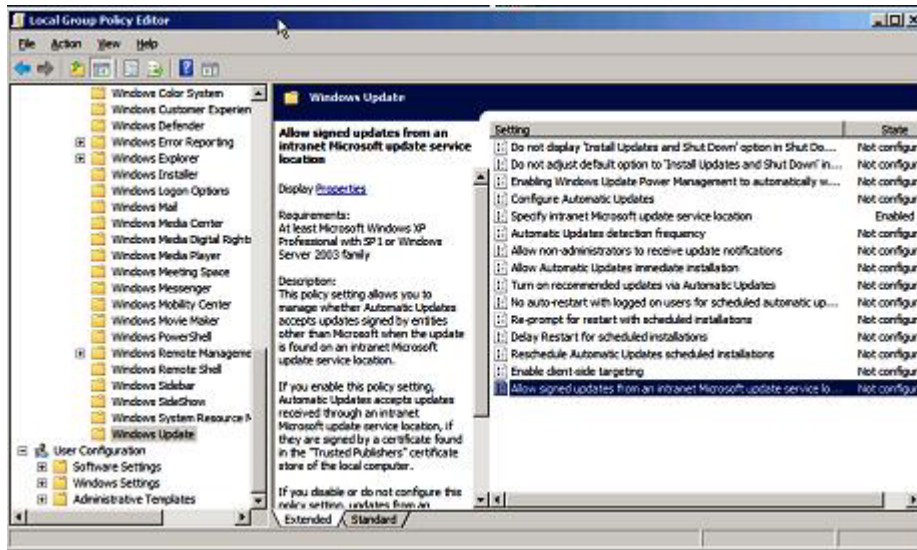


Figure 87. Allowing signed updates from an intranet Microsoft update service location

- d. Select **Enabled** and click **OK**.
- e. Close the Group Policy editor.

What to do next

Verify that .NET Framework 2.0, 3.0, or 3.5 is installed on the SCCM client before deploying IBM Updates to the SCCM client.

Deploying the IBM SEP from the SCCM server to the SCCM client

The IBM System Enablement Pack is a package that contains system-specific codes. It is used to support new System x and Blade servers 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 System Center Configuration Manager (SCCM) server to the SCCM client.

About this task

This task is performed from 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 navigation pane, expand **Software Library > Overview > Software Updates > All Software Updates**.

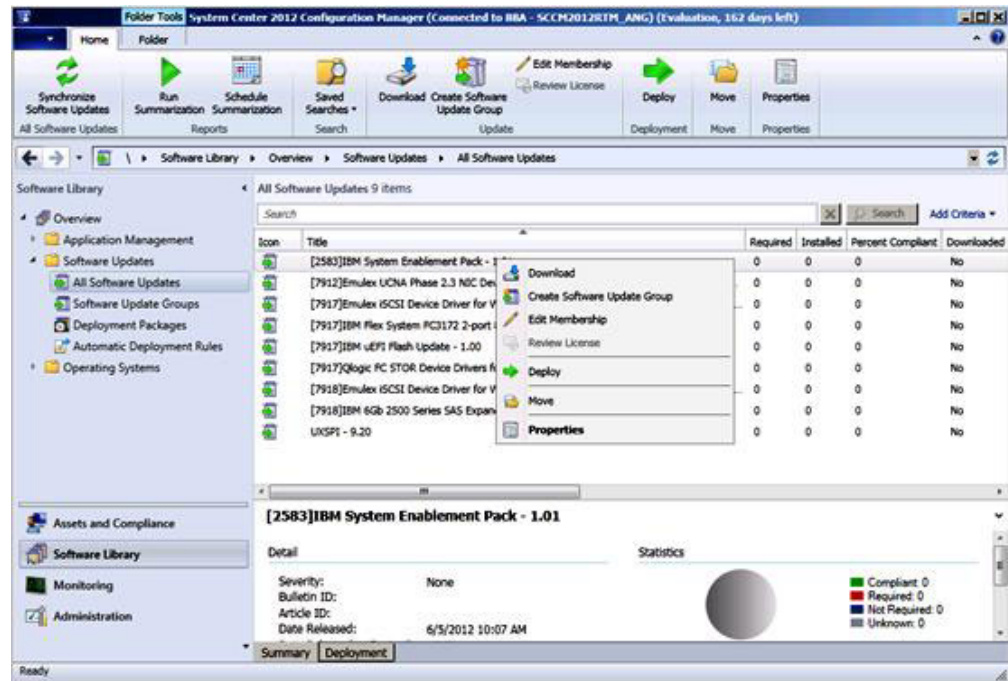


Figure 88. Deploy Software Updates

3. In the results pane, right-click the SEP to be deployed and select **Deploy**. The Deploy Software Updates Wizard opens.

Deploy Software Updates Wizard

General

Specify general information for this deployment

Deployment Name: IBM SEP - 2012-06-05 10:21:44 AM

Description:

The following software updates or software update groups are included in this deployment.

Software Update/Software Update Group: [2583]IBM System Enablement Pack - 1.01 Browse...

Select a previously saved deployment template that defines configuration settings for this deployment. Before you complete this wizard, you have the option to save the current configurations as a new deployment template.

Select Deployment Template...

Deploy this software update deployment to the following collection.

Collection: All Systems Browse...

< Previous Next > Summary Cancel

Figure 89. Deploy Software Updates Wizard - General

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 **Browse** to select the collection and then click **Next**. The Deployment package page opens.

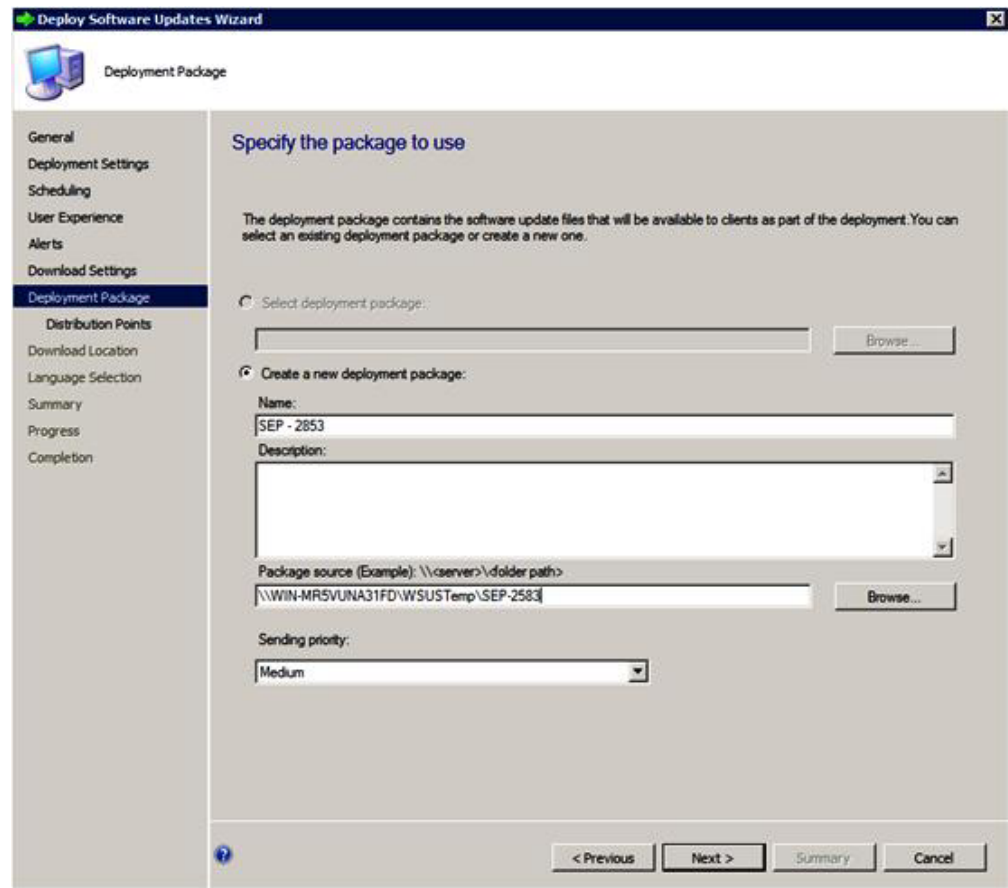


Figure 90. Deployment package page

6. If you are using an existing deployment package complete steps a, e, and f. If you are creating a new deployment package, complete steps b, c, d, e, and f.
 - a. Click **Select a deployment package** and click **Browse** to select the deployment package.
 - b. Click **Create a new deployment package**
 - c. Enter a unique name for the SEP in the **Name** field.
 - d. Browse to select the package source file location.
 - e. Select the **Sending priority**.
 - f. Click **Next**.

The Distribution Points page opens.

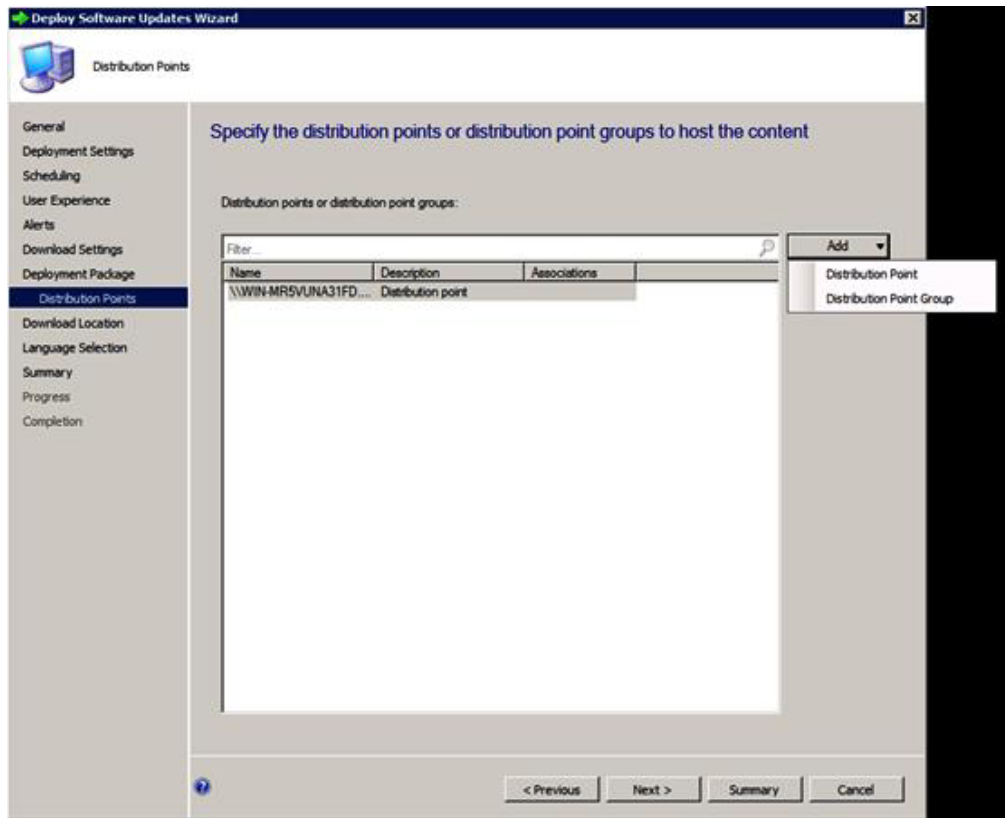


Figure 91. Distribution Points page

7. Click **Add** and select **Distribution point**. Click **Next**. The Download Location page opens.
8. Select **Download software updates from a location on my network** and click **Browse** to navigate to the software updates file location, then click **Next**. The Language Selection page opens.
9. On the Language Selection page, use or modify the default settings for Language Selection and click **Next**. The Summary page opens.

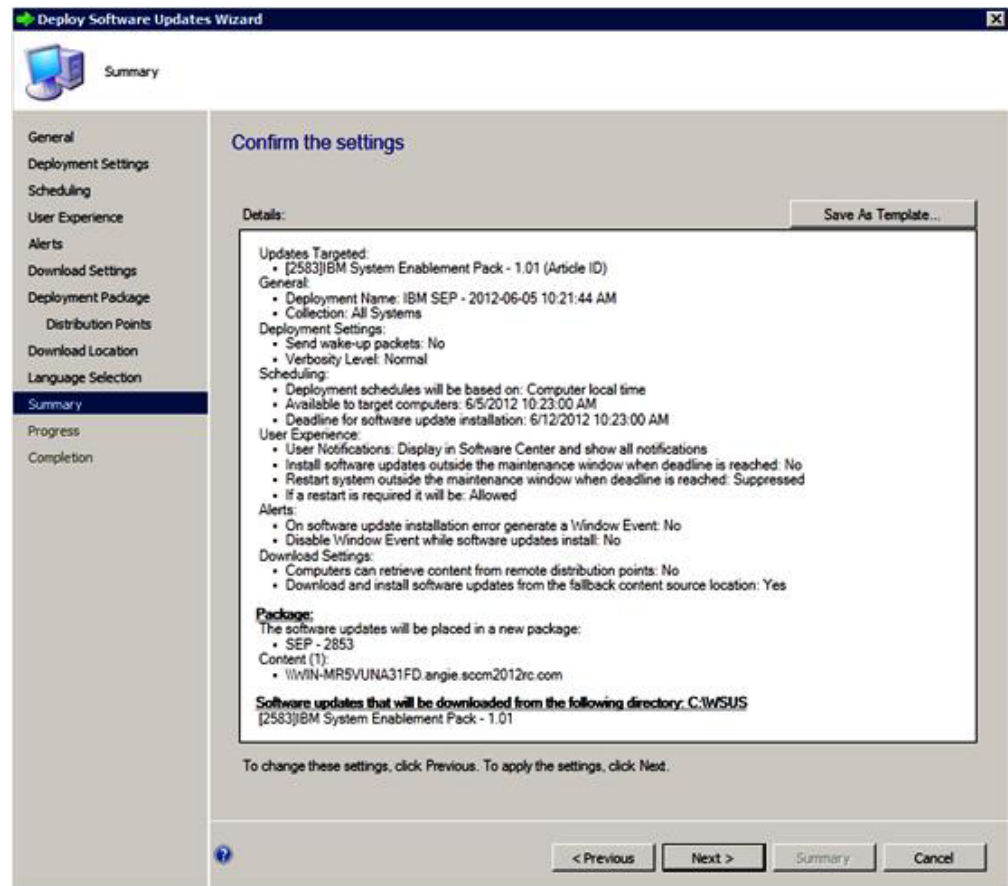


Figure 92. Deployment Software Updates Wizard summary

10. On the Summary page, accept the settings, and click **Next** to deploy the software updates or click **Save as Template**. If you need to change the settings, click **Previous** to change one or more of the following settings, such as: Scheduling, User Experience, Alerts, and Download settings. The Completion page opens.
11. On the Summary page, click **Next**.
12. Click **Close**.

Deploying 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 package is upgraded and any updates are published to the Windows Server Update Services (WSUS) server, the newer UXSPI package replaces the old UXSPI package (if any) on the System Center Configuration Manager (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 prior UXSPI version was not deployed

The following procedure describes how to deploy the UXSPI package from the System Center Configuration Manager (SCCM) server to the SCCM client when the prior UXSPI package was not deployed.

About this task

This task is performed from 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. Finish deploying the UXSPI package by following steps 4 through 13 in “Deploying the IBM SEP from the SCCM server to the SCCM client” on page 90.

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

The following describe the three methods for deploying the IBM UXSPI package from the System Center Configuration Manager (SCCM) server to the SCCM client if the UXSPI is upgraded and the prior UXSPI package is deployed.

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 UXSPI package from System Center Configuration Manager (SCCM) server to the SCCM client.

About this task

This task is performed from 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 navigation pane, expand **Software Library > Overview > Deployment Packages**. The Deployment Packages page opens.

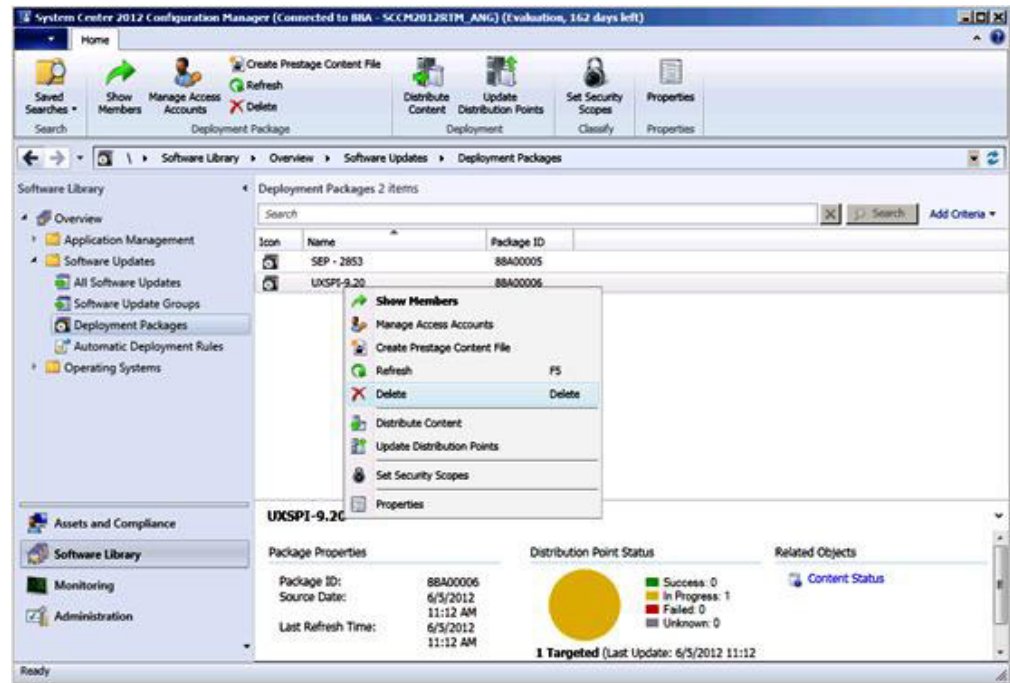


Figure 93. Deleting the old UXSPi advertisement

3. In the results pane, right-click the old UXSPi deployment package and select **Delete**.
4. Right-click the UXSPi package to be deployed and select **Deploy**. This action is displayed in the following figure.

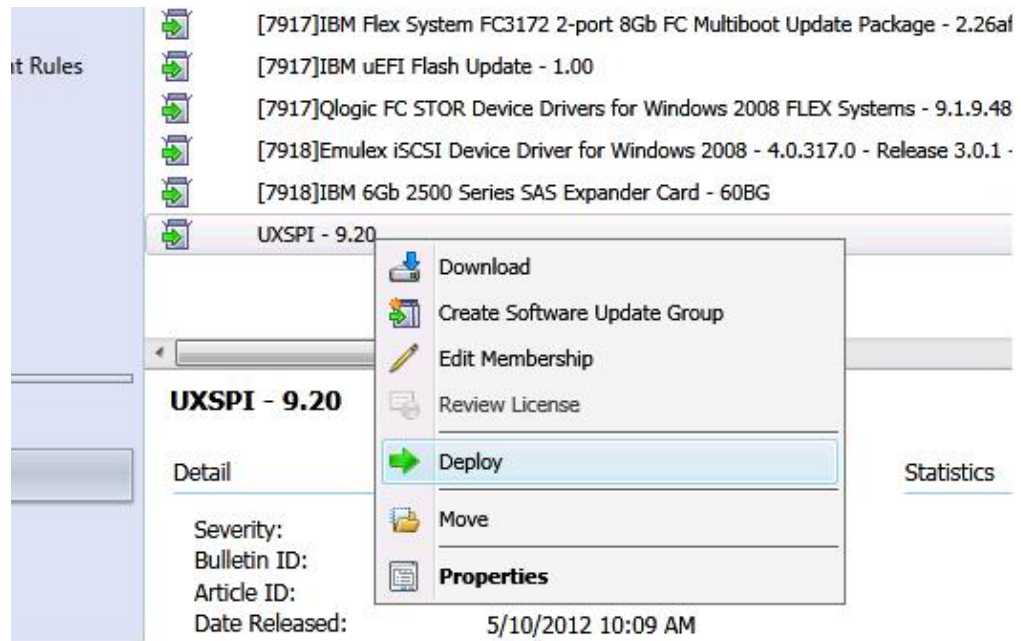


Figure 94. Deploying the UXSPi software package

5. Complete steps 4 to 12 as described in “Deploying the IBM SEP from the SCCM server to the SCCM client” on page 90.

Method 2: Deploying a new IBM 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 from 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 navigation pane, expand **Software Library > Overview > Deployment Packages**. The Deployment Packages page opens.
3. Right-click the UXSPi to be deployed and select **Deploy**. This action is displayed in the following figure.

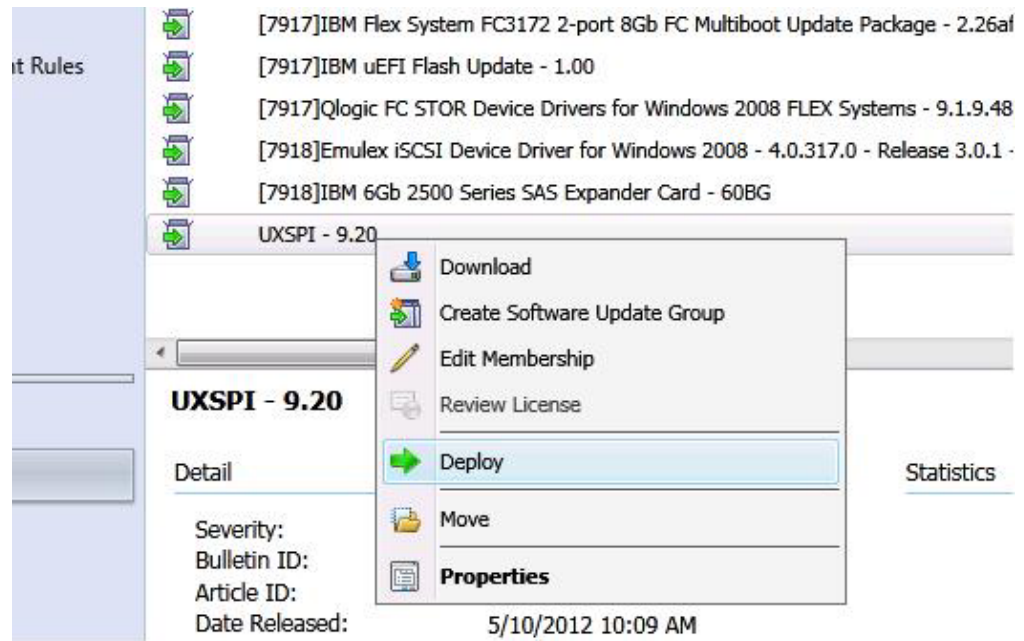


Figure 95. Deploying the UXSPI software package

4. Complete steps 4 to 12 in the “Deploying the IBM SEP from the SCCM server to the SCCM client” on page 90 section.

Method 3: Adding a new IBM 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 from 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 navigation pane, expand **Software Library > Overview > Deployment Packages**.
3. In the results pane, right-click the UXSPI package to be deployed and select **Deploy**. This action is displayed in the following figure.

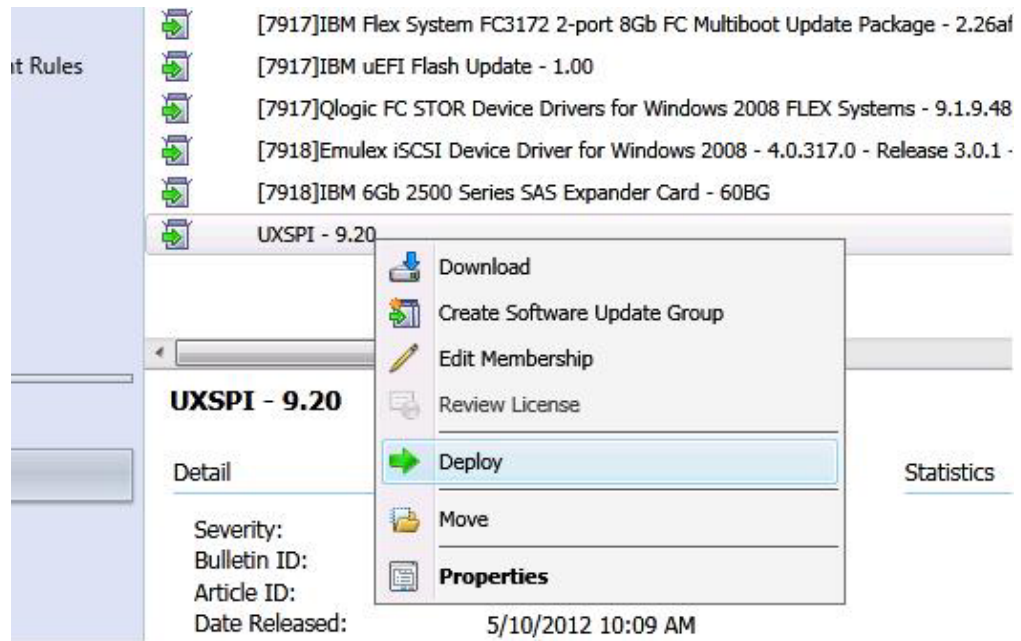


Figure 96. Selecting an existing UXSPi deployment package

The General page opens.

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.

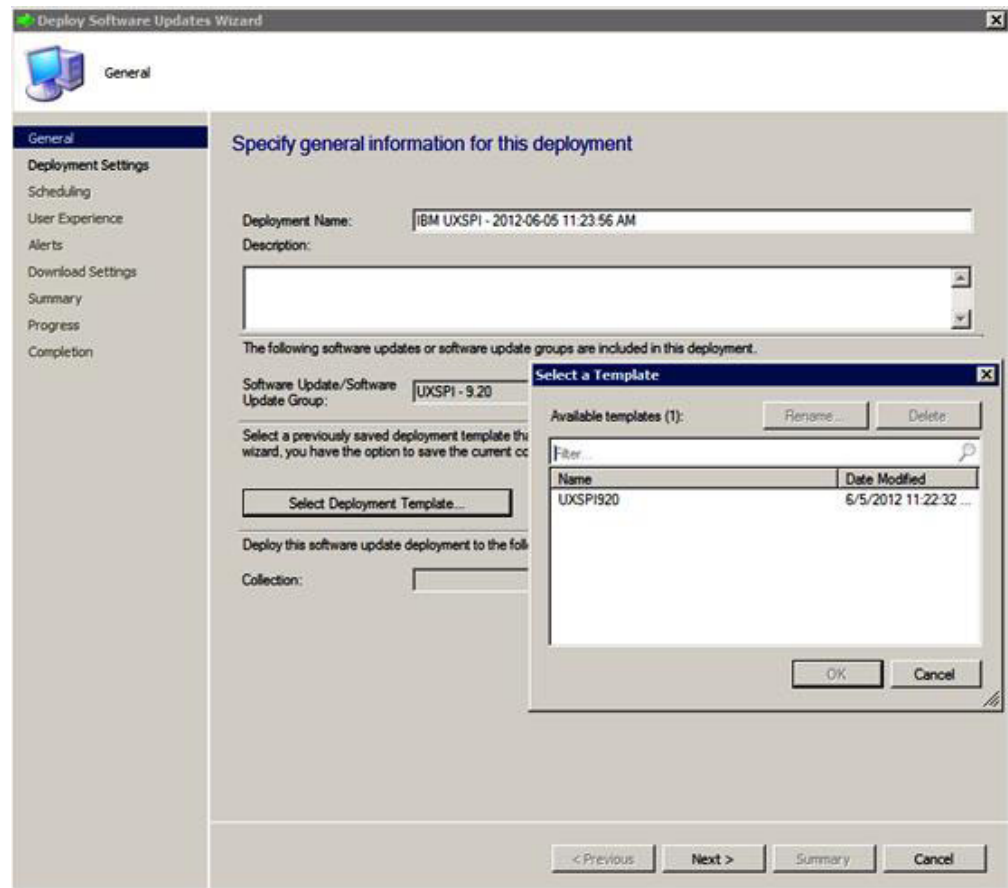


Figure 97. Software updates using Template

5. Click **Select Deployment Template**. The Select a Template window opens.
6. Either select a template from the list, or search for a template by entering its name in the Filter field, then click **OK**.
7. Click **Next**. The Summary page opens.

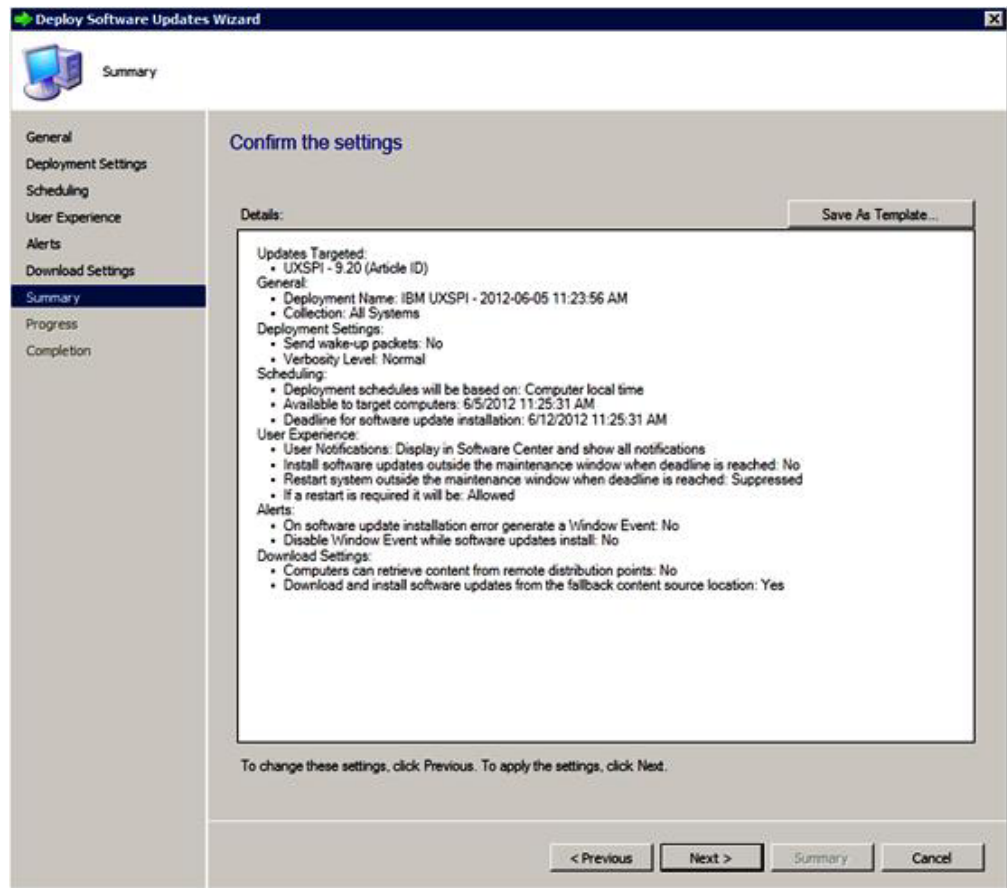


Figure 98. Summary page

8. Click **Next** to use the current template settings or click **Previous** to modify the settings. For more information about this step, see “Deploying IBM UXSPI from the SCCM server to the SCCM client” on page 96.

Deploying IBM updates from the SCCM server to the SCCM client

The following procedure describes how to deploy IBM updates from the Configuration Manager (SCCM) server to the SCCM client.

About this task

This task is performed from 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 navigation pane, expand **Software Library > Overview > Deployment Packages**.
3. In the results pane, right-click to select the updates for deployment and select **Deploy Software Updates**. This action is displayed in the following figure.

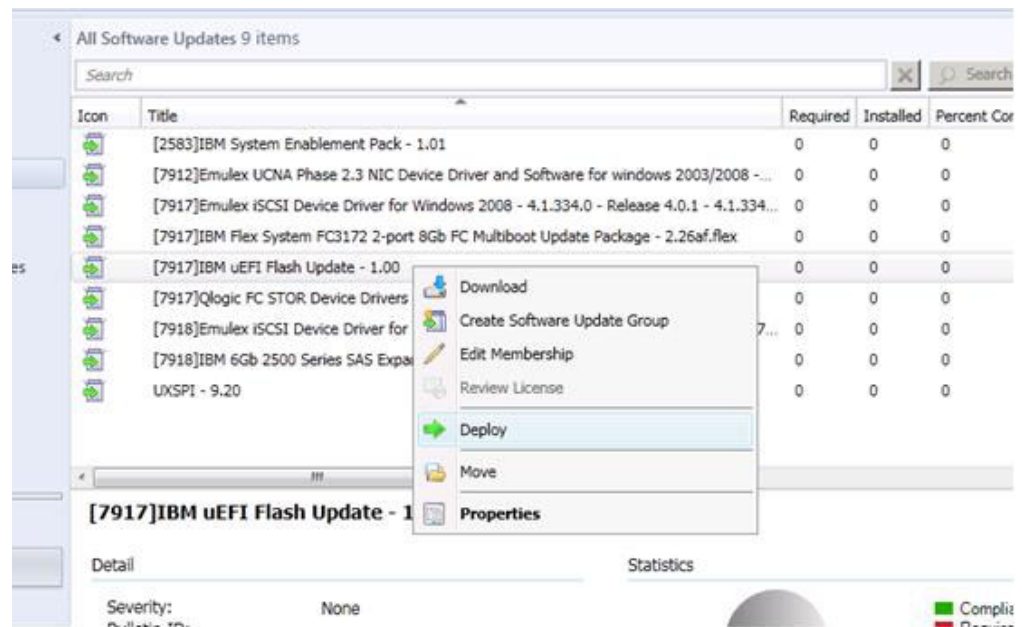


Figure 99. Deploying IBM updates from the SCCM server to the SCCM client

4. Complete steps 4 to 12 as described in “Deploying the IBM SEP from the SCCM server to the SCCM client” on page 90.

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, v5.0.

Supported Microsoft System Center products

The IBM System Updates for Microsoft System Center Configuration Manager, v5.0 Solution supports the following Microsoft System Center products:

- Microsoft System Center Configuration Manager 2012
- Microsoft System Center Configuration Manager 2012 R2
- Microsoft System Center Configuration Manager 2012 SP1
- Microsoft System Center Configuration Manager 2007 R2
- Microsoft System Center Configuration Manager 2007 SP2
-

Supported client systems

IBM System Updates supports the following client systems.

Supported systems

Table 2. Supported Systems

Product family name	Machine type
IBM BladeCenter HS20	1883, 8843
IBM BladeCenter HS21	1885, 8853
IBM BladeCenter HS22	7870, 1936, 1911
IBM BladeCenter HS22V	1949, 7871
IBM BladeCenter HS23	7875, 1929
IBM BladeCenter HS23E	8038, 8039
IBM BladeCenter HX5	1909, 1910, 7872, 7873
IBM BladeCenter LS21	7971
IBM BladeCenter LS22	7901
IBM BladeCenter LS42	7902
IBM Flex System x220 Compute Node	7906, 2585
IBM Flex System x222 Compute Node	7916
IBM Flex System x240 Compute Node	8737, 8738, 7863
IBM Flex System x440 Compute Node	7917
IBM NeXtScale Node	5455
IBM Smart Analytics System	7949
IBM System x3100 M4	2582
IBM System x3200 M2	4367, 4368
IBM System x3200 M3	7327, 7328
IBM System x3250 M2	7657

Table 2. Supported Systems (continued)

Product family name	Machine type
IBM System x3250 M3	4251, 4252, 4261
IBM System x3250 M4	2583
IBM System x3250 M5	5458
IBM System x3300 M4	7382
IBM System x3400 M2	7836, 7837
IBM System x3400 M3	7378, 7379
IBM System x3500	7977
IBM System x3500 M2	7839
IBM System x3500 M3	7380
IBM System x3500 M4	7383
IBM System x3530 M4	7160
IBM System x3550	7978, 1913
IBM System x3550 M2	4198, 7946
IBM System x3550 M3	4254, 7944
IBM System x3550 M4	7914
IBM System x3620 M3	7376
IBM System x3630 M3	7377
IBM System x3630 M4	7158
IBM System x3650	7979, 1914
IBM System x3650 M2	7947, 4199
IBM System x3650 M3	4255, 5454, 7945
IBM System x3650 M4	7915
IBM System x3650 M4 HD	5460
IBM System x3690 X5	7147, 7148, 7149, 7192,
IBM System x3750 M4	8722, 8733, 8752
IBM System x3750 M4	8752
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/x3950 X5	7145, 7146, 7191, 7143
IBM System x3850 X6	3837
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 System x iDataPlex dx360 M4	7912, 7913

Supported operating systems for client machines

The following Windows operating systems are supported on client machines:

- Windows 2012 R2
- Windows Server 2012 SP1
- Windows Server 2008 SP1/R2
- Windows Server 2008 SP1/SP2
- Windows Server 2008 SP1/SP2 x64
- Windows Server 2003 SP2/R2
- Windows Server 2003 SP2/R2 x64

Required software on server machines

Microsoft .NET Framework 4.0 is required software on server machines.

Required software on client machines

Microsoft .NET Framework 2.0 is required software for client machines.

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 Tool host machine and System Center Configuration Manager (SCCM) client machines.

The IBM System Updates Acquisition and Publishing Tool uses the following registry key to record the log level:

- [HKEY_LOCAL_MACHINE\SOFTWARE\IBM\System 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 how download updates may have failed.

Issue Download failed

Possible Solution

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 connect to: Fix Central.

If you were unable to connect to the IBM update repository, the following error is displayed.

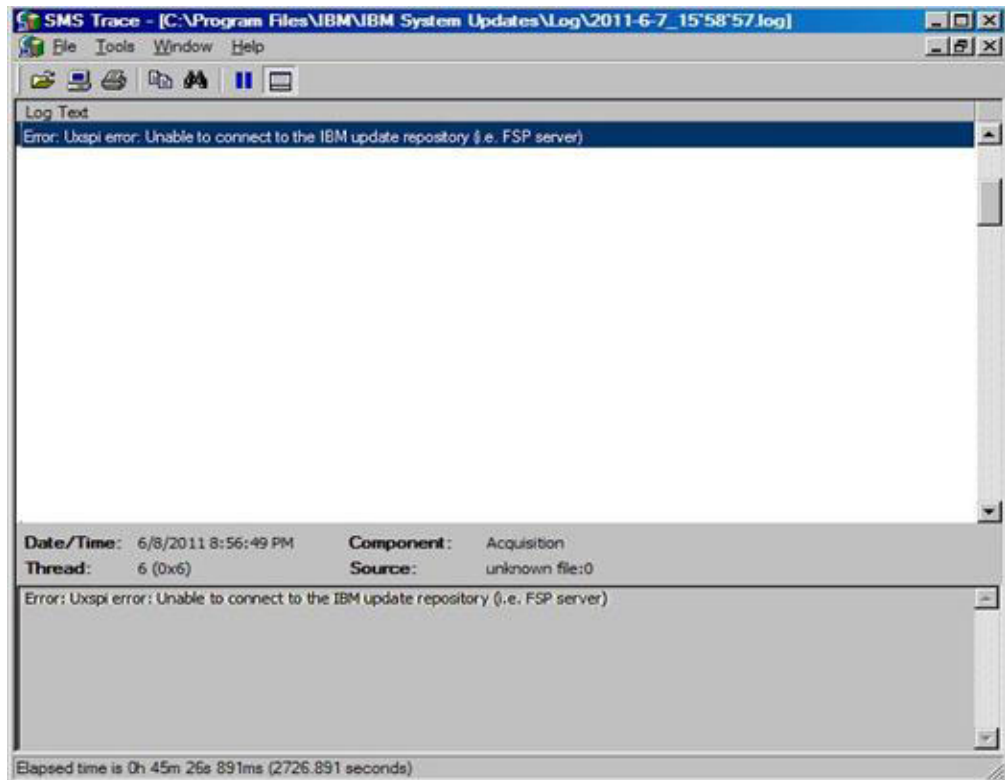


Figure 100. Unable to connect to the IBM update repository error

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 Tool to Windows Server Update Services

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

Possible Solution

Check the SUAP log file located at: %SystemDrive%\Program Files\IBM\IBM System Updates\Log to determine what occurred.

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

Issue The IBM System Updates Acquisition and Publishing Tool failed to publish updates to Windows Server Update Services due to a verification of file signature failed error.

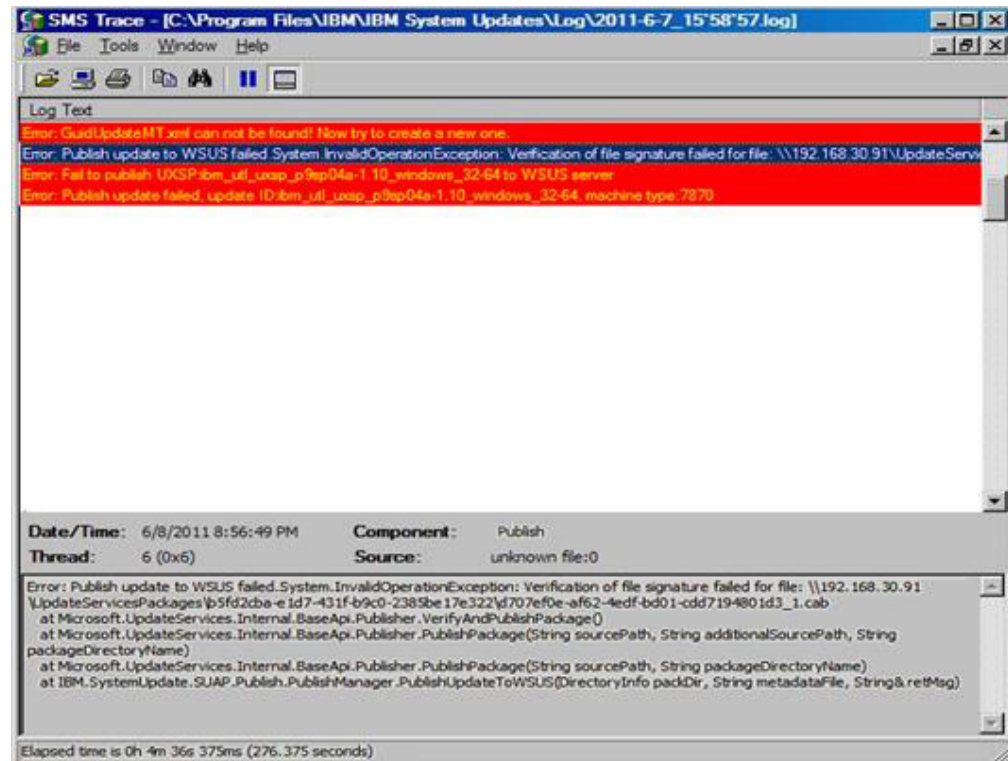


Figure 101. Failure to verify the file signature

Possible solution

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 Secure Sockets Layer connection failing

Issue While using Secure Sockets Layer (SSL) to publish updates from an IBM System Updates Acquisition and Publishing Tool computer to a Windows Server Update Services (WSUS) server, an error message is displayed as shown in the following figure.

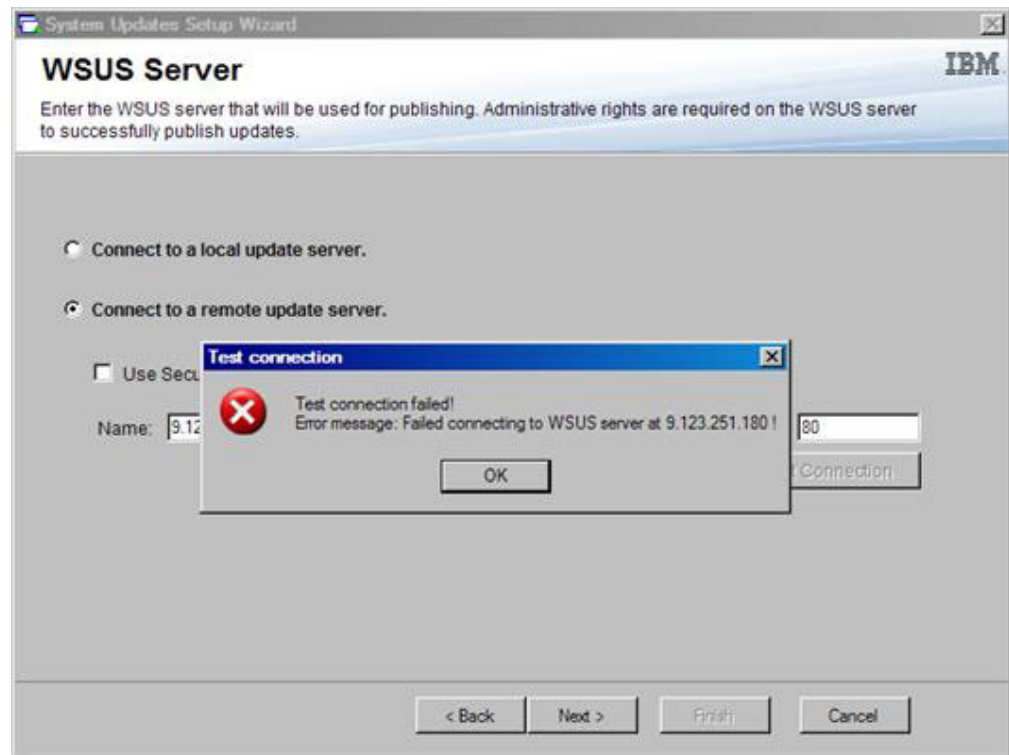


Figure 102. Connection to WSUS server failure message

Possible Solution

Either configure the SSL as described in "Setup Wizard" on page 14, or publish without using the SSL feature.

Changing the log level value in the registry does not 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 Tool 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 do not deploy from the Microsoft System Center Configuration Manager server to the Microsoft System Center Configuration Manager client

Issue Updates do not deploy from the System Center Configuration Manager (SCCM) server to the SCCM Client.

Possible Solution

Perform these steps:

1. Extend the Windows Update Error level in the registry.
2. Add the following values to the registry key:
 - a. Value name: **Flags**
 - Value type: **REG_DWORD**
 - Value data: `00000007`
 - b. Value name: **Level**
 - Value type: **REG_DWORD**
 - Value data: `00000004`
3. Check the %systemroot%\Windowsupdate.log file to get detailed information about the failure.

This registry key turns on extended tracing to the %systemroot%\Windowsupdate.log file.

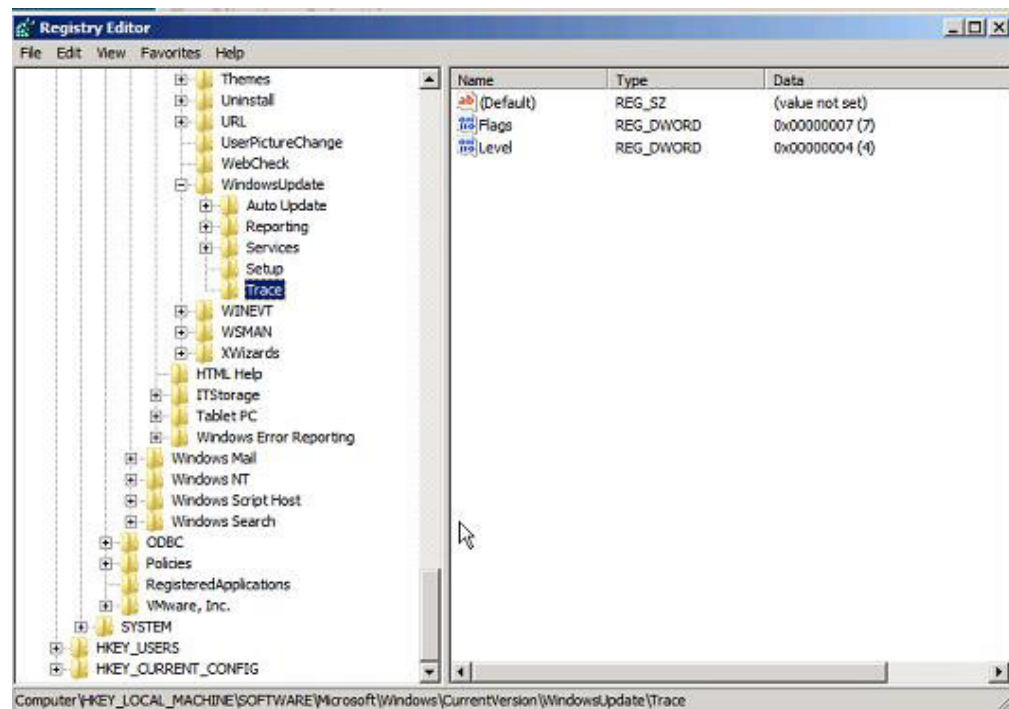


Figure 103. Changing the trace registry key

Updates do not deploy to the Microsoft System Center Configuration Manager client due to a firewall restriction

Issue Updates do not 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 does not install on a client machine

Use this topic for troubleshooting why an update fails to install on a client machine. If the operating system on the client system is Windows 2008, check the update history to get more information.

About this task

The `result.txt` log file is generated by UXSPi, and contains detailed information about the update process. If an update does not install on a client system, you can view details about the incompleted installation in the `result.txt:C:\ibm_support\SUAP\%update_id%\result.txt`.

Procedure

1. Click **Start > Windows Update > View update history**.
2. Open update history view.

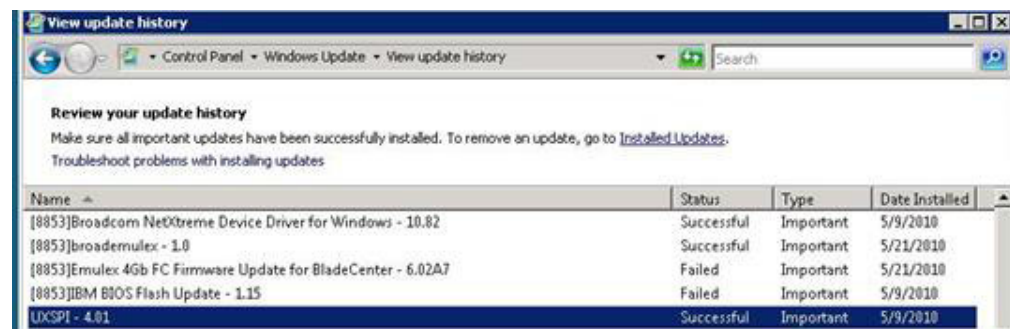


Figure 104. Viewing update history on client system

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

Table 3. Error 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.

Table 3. Error codes (continued)

Return Code for Hex	Return Code for Decimal	Explanation
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. For example, the required software might not be installed or the hardware might not be 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 that may not be installed by default.

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

Possible Solution

Using the Publish Wizard on the Confirm Updates Packages page, you can select the **Also select Host Bus Adapters (HBA) and Covered Network Adapter (CNA)** checkbox or you can try to install the update manually.

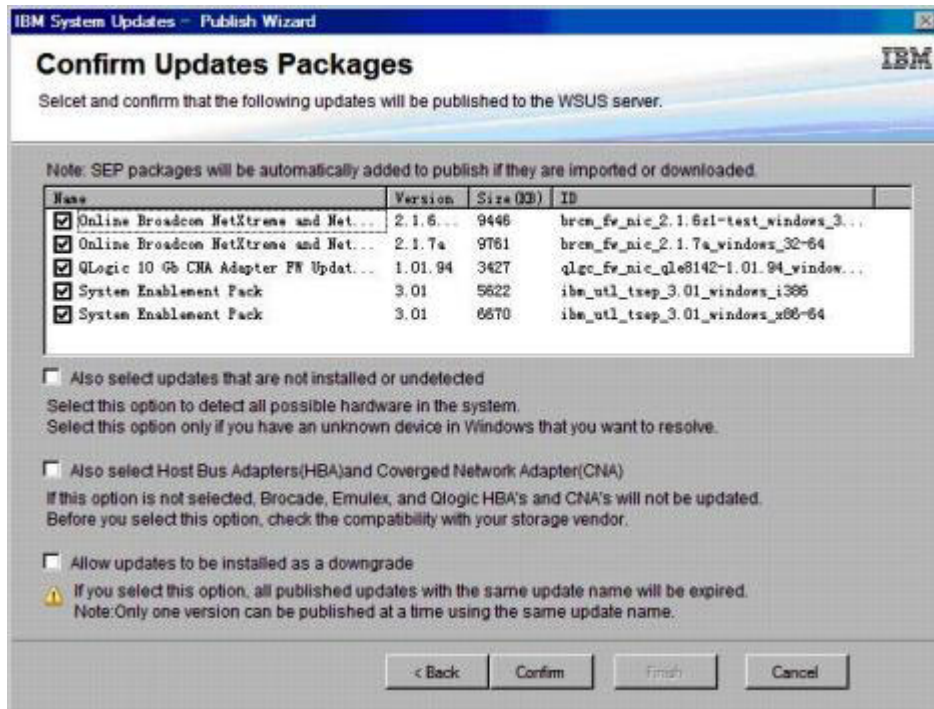


Figure 105. Publish Wizard Confirm Updates Packages

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 to complete the installation.

Issue If the IBM UpdateXpress System Pack Installer installation fails for any reason, the installation window will display the message: "Failed results". Some of the updates may have been installed already and require restarting the client server for the update installation to be complete.

Possible Solution

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

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

If Windows Updates notification is slow to become visible in the SCCM client, you can modify Configuration Manager properties to speed the process.

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

Possible Solution:

Perform these steps:

1. Open the Control Panel. There should be several SCCM Agent components.

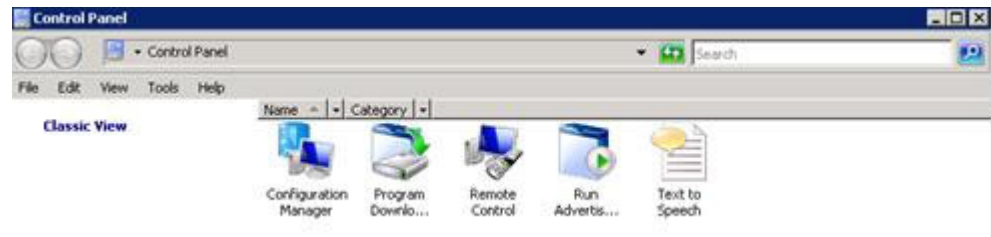


Figure 106. SCCM Agents in Control Panel

Note: On a Windows 64-bit platform, the components above are located in the Control Panel within the folder **View 32bit Control Panel Items**.

2. Click **Configuration Manager**. The Configuration Manager Properties window opens.
3. On the **Actions** tab, select and initiate an action for the following components respectively:
 - Software Update Deployment Evaluation Cycle
 - Software Update Scan Cycle User
 - Policy Retrieval & Evaluation Cycle

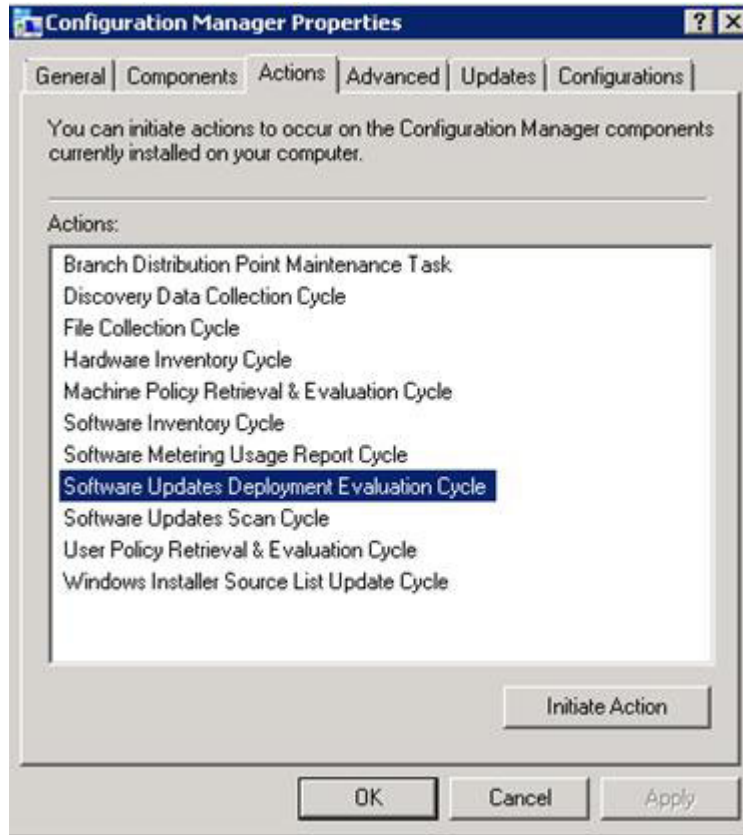


Figure 107. Initiating Configuration Manager properties

Unable to install IBM Updates on SCCM client

If you are unable to install IBM Updates on SCCM client, you may need to install .NET Framework 2.0 or later on the SCCM client.

Issue: IBM Updates cannot install on the SCCM client.

Possible Solution:

IBM Updates require that .NET Framework 2.0 or later be installed on the SCCM client system. Ensure that it is 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 indicate they are “expired” on the SCCM console after they have been expired and published through the IBM System Updates Acquisition and Publishing Tool.

Possible Solution:

Ensure that the SCCM server synchronization settings are configured correctly. For more detailed information, see TechNet: Planning for the Software Update Point Settings.

A sequence package does not install on the client system

Use this topic for troubleshooting why a sequence pack does not install on the client system.

Issue A sequence package may not install on the client, even though the Windows update history shows the installation was 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 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.

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