



# Lenovo Inventory Tool for Microsoft System Center Configuration Manager User's Guide

*Version 5.6*





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*Version 5.6*

**Note**

Before using this information and the product it supports, read the information in "Notices" on page 43.

**Edition Notice**

This edition applies to the Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6 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 Lenovo Inventory Tool for Microsoft System Center Configuration Manager 2007. Lenovo Inventory Tool is used to view Lenovo hardware inventory of the SCCM client.

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## Conventions and terminology

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

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

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

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

*Table 1. Frequently used terms and acronyms*

Term or acronym	Definition
DSA	Lenovo Dynamic System Analysis
MSCCM	Microsoft System Center Configuration Manager
SCCM	System Center Configuration Manager
SEP	Lenovo System Enablement Pack
SSL	Secure Sockets Layer
UXSP	UpdateXpress System Packs
UXSPi	UpdateXpress System Pack
WSUS	Windows Server Update Services



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## Information resources

You can find additional information about Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6 in the product documentation and on the World Wide Web.

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### 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 website.

#### Viewing and printing PDF files

You can view or print any of the PDF files located on the web. The most current version of each document is available on the product download page. Click the following link to locate the individual product pages for each publication: IBM System x Integration Offerings for Microsoft Systems Management Solutions portal.

- [Lenovo Inventory Tool for Microsoft System Center Configuration Manager release notes](#)
- [Lenovo Inventory Tool for Microsoft System Center Configuration Manager 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 <b>Save Target As</b> .
For Netscape Navigator or Mozilla	Click <b>Save Link As</b> .

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

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### World Wide Web resources

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

#### IBM website for Microsoft Systems Management Solutions for IBM Servers

IBM System x Integration Offerings for Microsoft Systems Management Solutions portal

Locate the latest downloads for Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6.

### **IBM Systems Technical support site**

Support Portal.

Locate support for IBM hardware and systems management software.

### **IBM Systems Management Software: Download Software Registration**

IBM Systems Director Downloads

Download IBM systems management software, including IBM Systems Director.

### **IBM System x Systems Management page**

IBM Systems Director systems management solutions for System x

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

### **IBM ServerProven<sup>®</sup> pages**

IBM ServerProven: Compatibility for hardware, applications, and middleware

IBM ServerProven: Compatibility for BladeCenter products

Obtain information about hardware compatibility with IBM System x, Lenovo BladeCenter, and Lenovo IntelliStation<sup>®</sup> hardware.

### **Microsoft System Center Configuration Manager page**

TechNet Library: Configuration Manager 2007

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# Chapter 1. Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6

The topics in this section provide a description of Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6.

Through its alliance with Microsoft System Center products Microsoft System Center Configuration Manager 2007 (SCCM), Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6 reduces the time and effort it takes to view the hardware inventory of clients from the server.

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## Trial license support

Lenovo Inventory Tool is a fee-based product that provides an inventory of various system components and configurations, including an overview of the system, memory, BIOS/UEFI, drivers, IMM configuration, and options (such as LSI, Qlogic, Brocade, Broadcom, Mellanox, and Emulex). The trial license makes a few of these basic inventory options available, such as system overview, memory, and BIOS/UEFI.

To enable the other premium features, after the product license is activated, you must run the Lenovo Inventory Tool server configuration from the **Start** menu.

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## Premium features

Premium features are available when the Lenovo Inventory Tool installation is registered with a license for Lenovo Upward Integration for Microsoft System Center v4.0 or later.

You can purchase Activation licenses by contacting your Lenovo representative or a Lenovo Business Partner. You can also purchase a product license for IBM Upward Integration for MSSC v3.0 online from IBM.

The following feature is a fee-based function that is enabled with a valid product license of v4.0 or later:

- The ability to configure SCCM server to collect Lenovo hardware inventory of drivers, IMM configuration, and options (such as LSI, Qlogic, Brocade, Broadcom, Mellanox, and Emulex).

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## How Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6 supports Lenovo systems

Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6 provides the ability to view an Lenovo hardware inventory of the SCCM client from the SCCM server.

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## Lenovo Inventory Tool hardware and software requirements

The topics in the section describe the hardware and software requirements for Lenovo Inventory Tool.

## **Hardware requirements**

Lenovo Inventory Tool can be run on a non-Lenovo server or Lenovo server that supports the Windows operating system and SCCM.

## **Supported operating systems**

Lenovo Inventory Tool tool supports the following Windows operating systems:

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

## **Required software**

Microsoft System Center Configuration Manager 2007 or 2012 is required.

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## Chapter 2. Lenovo Inventory Tool installation

The topics in this section describe how to install and uninstall Lenovo Inventory Tool.

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### Downloading and installing Lenovo Inventory Tool

This topic describes how to install Lenovo Inventory Tool.

#### Before you begin

There are two methods for installing Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6. The first method uses the Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6 setup package (.exe file). The second method uses the Lenovo Upward Integration for Microsoft System Center Installer. For more information about the Lenovo Upward Integration for Microsoft System Center Installer refer to IBM Upward Integration for Microsoft System Center bundle - IBM BladeCenter and System x.

#### Procedure

1. Go to IBM System x Integration Offerings for Microsoft Systems Management Solutions.
2. Click **Microsoft System Center Configuration Manager (SCCM), Inventory Tool** to download the latest version of Lenovo Inventory tool. The Preparing to Install page for Lenovo Inventory Tool opens.
3. Click **Next**. The InstallShield Wizard page opens. If for some reason you need to stop the installation, click **Cancel**.

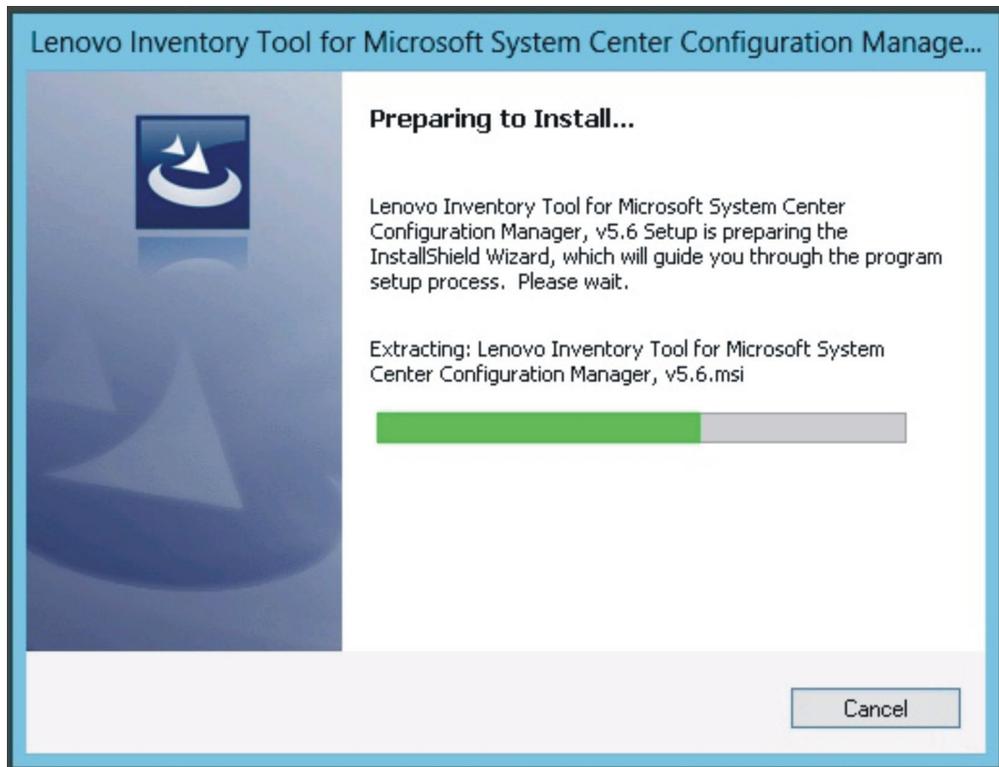


Figure 1. Preparing to Install Lenovo Inventory Tool

**Note:** If Microsoft System Center Configuration Manager 2007 or later is not installed on your system, the following message is displayed. Click **OK** to stop the program and complete the installation.

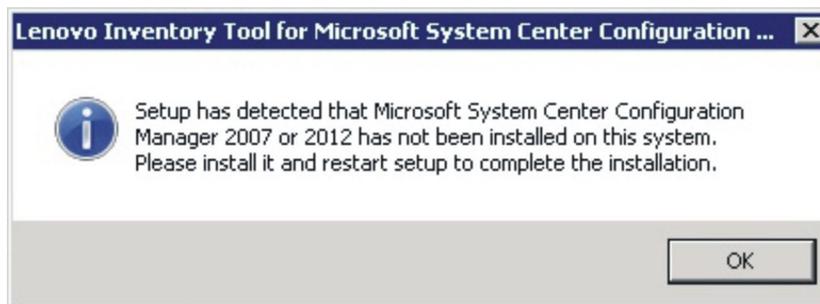


Figure 2. SCCM 2007 or later not installed message

4. While the program installs, click **Next** to proceed to the License Agreement page.

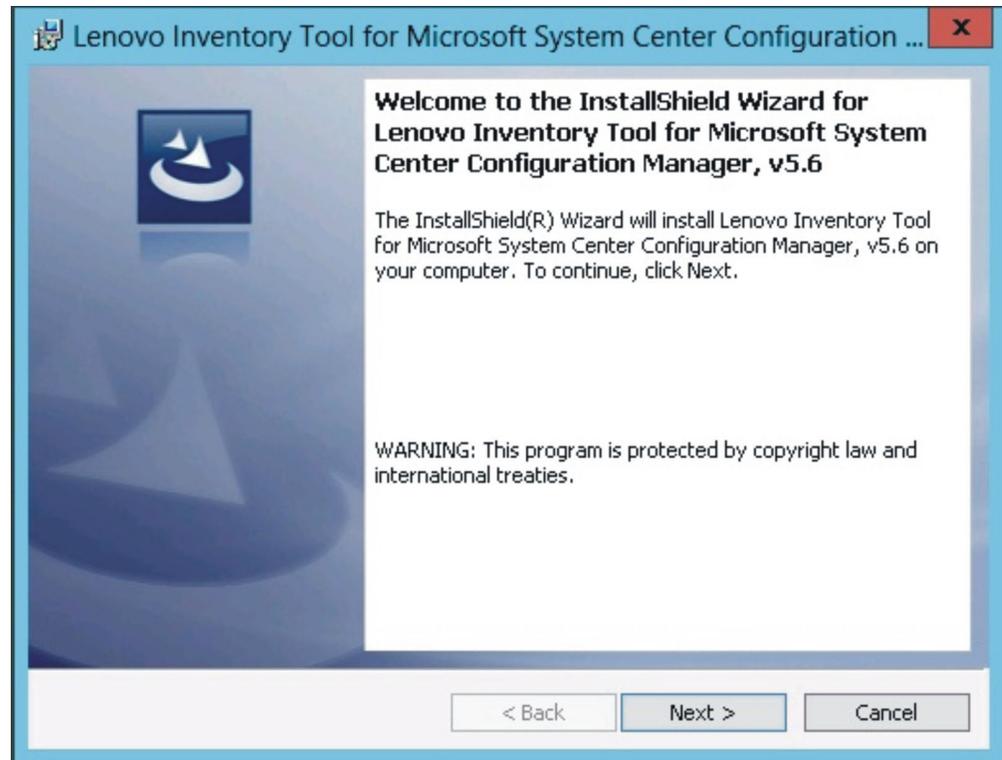


Figure 3. InstallShield Wizard Welcome page for Lenovo Inventory Tool

5. Read the license agreement terms, and then select **I accept the terms in the license agreement**. Click **Next**.

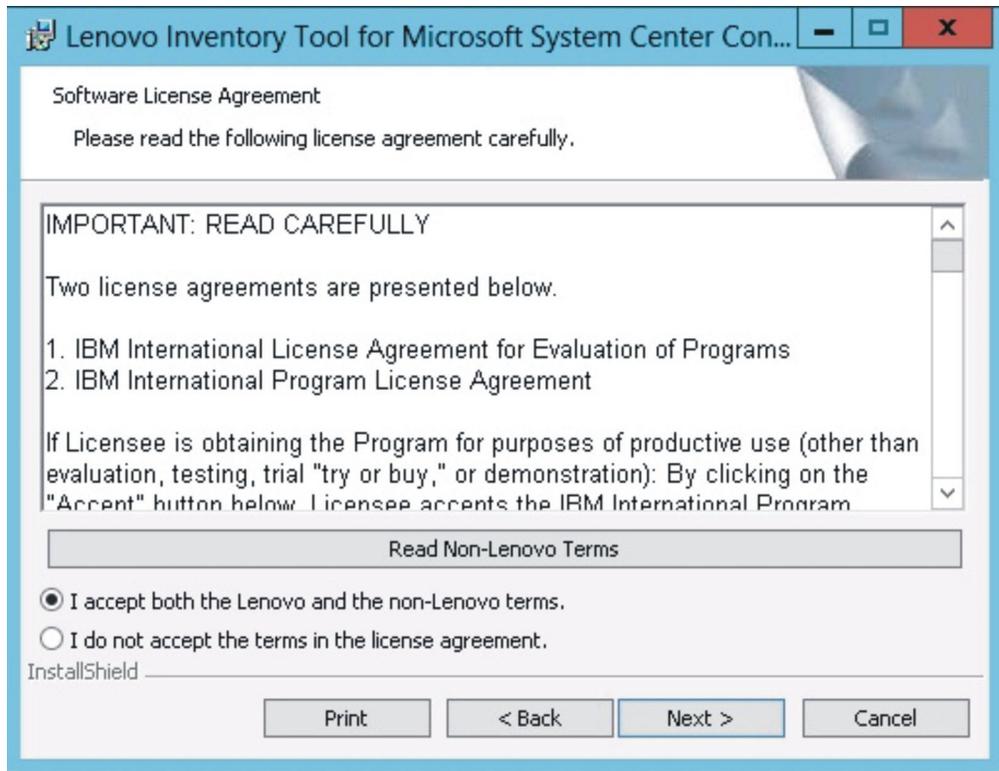


Figure 4. Software License agreement

6. If no product license is activated, the Trial Version page opens. (If a product license is activated, the Destination Folder page opens and you can proceed to step 7.) On the Trial Version page, click **Contact Lenovo** to obtain a valid product license, then click **Next** to proceed to the Destination Folder page.

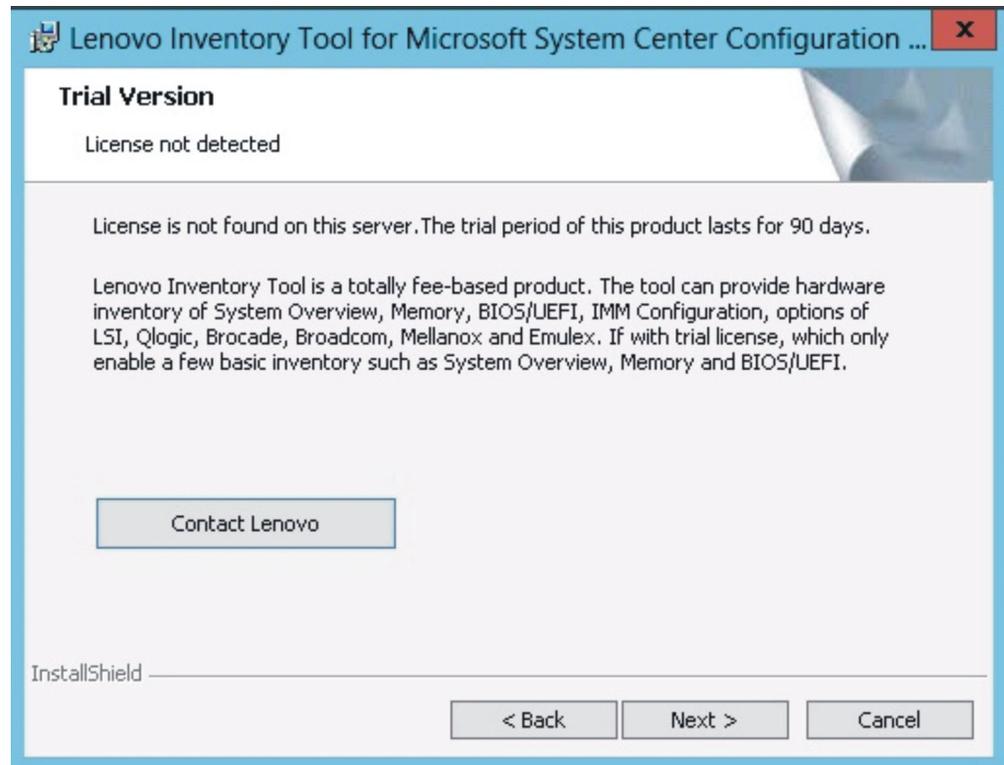


Figure 5. Trial Version page

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

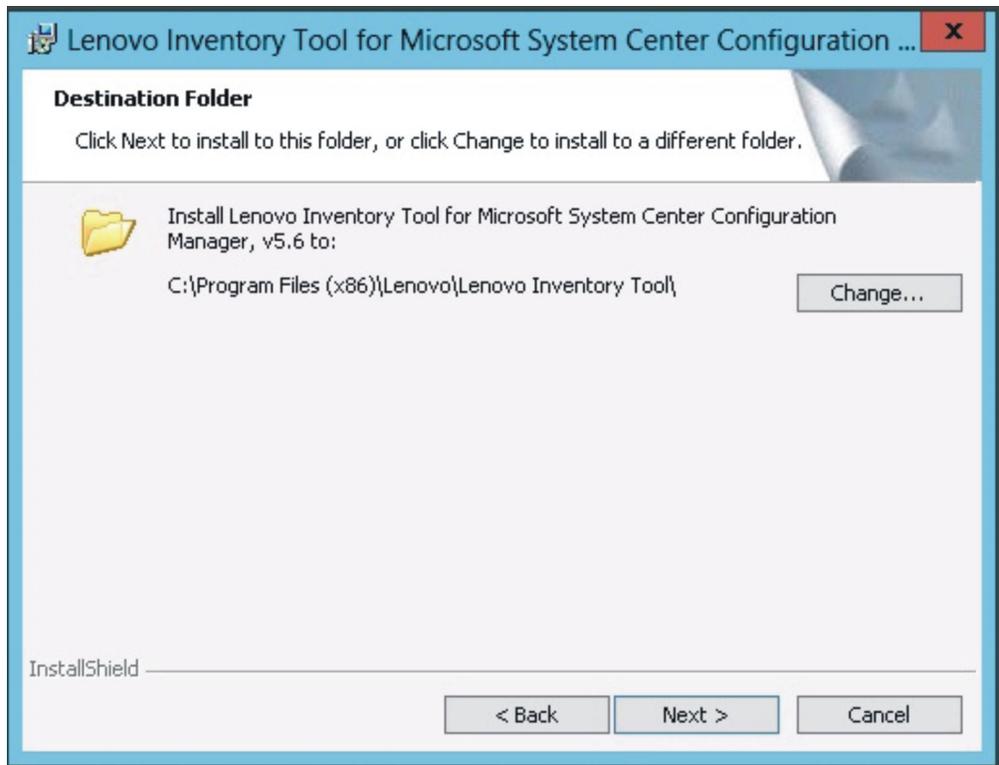


Figure 6. Destination folder

8. On the Lenovo Inventory Tool Client Run Cycle page, either click **Next** to use the default run cycle value, or enter a different run cycle value.

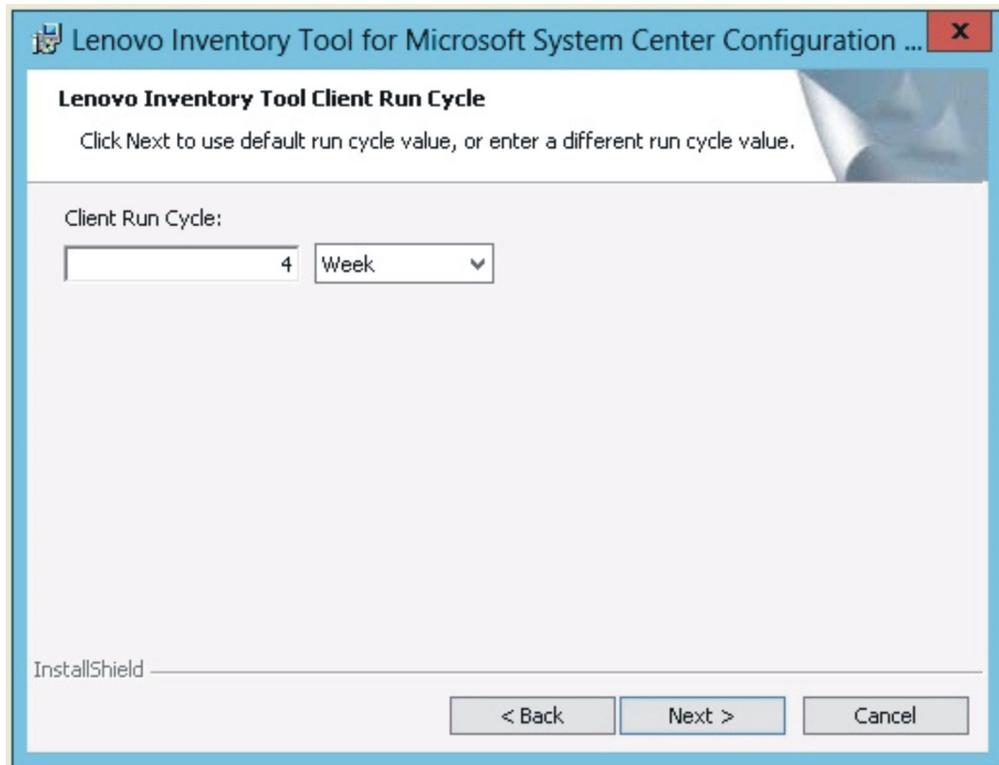


Figure 7. Lenovo Inventory Tool Run Cycle

**Note:** The value ranges for the client run cycle are 1 through 65 for **Day** and 1 through 52 for **Week**. If you enter a value that is not valid, the installation will not continue.

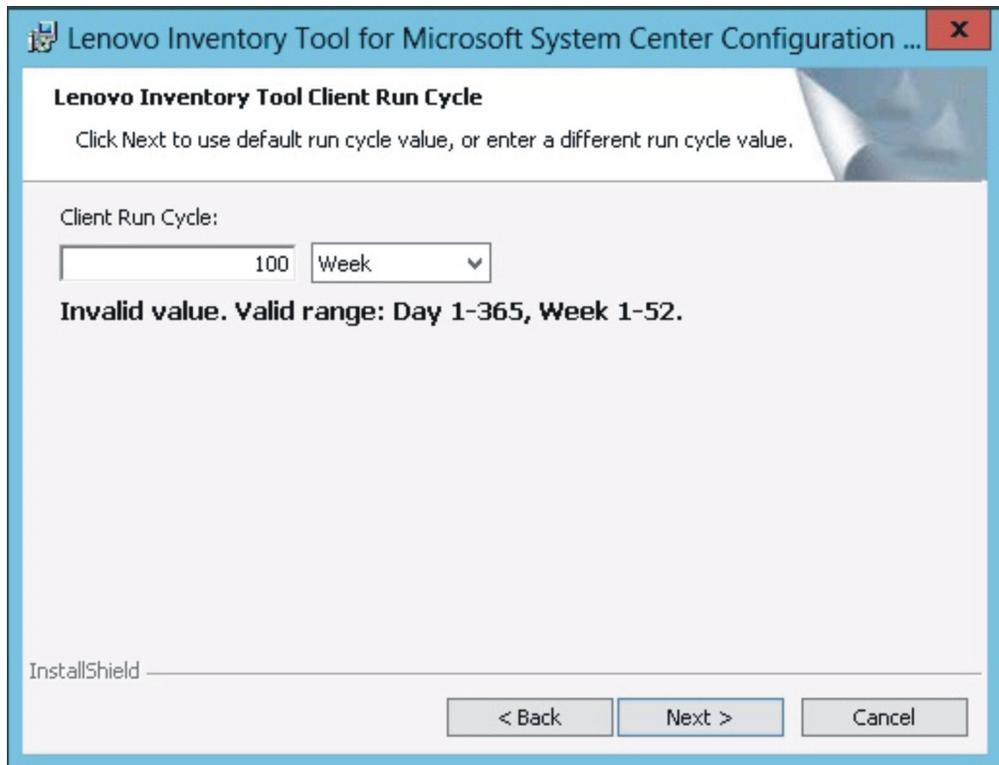


Figure 8. Example of invalid value for Week

9. On the Ready to Install the Program page, click **Install** to begin the installation. If you want to review or change any of your installation settings, either click **Back** to change them, or click **Cancel** to exit the wizard.

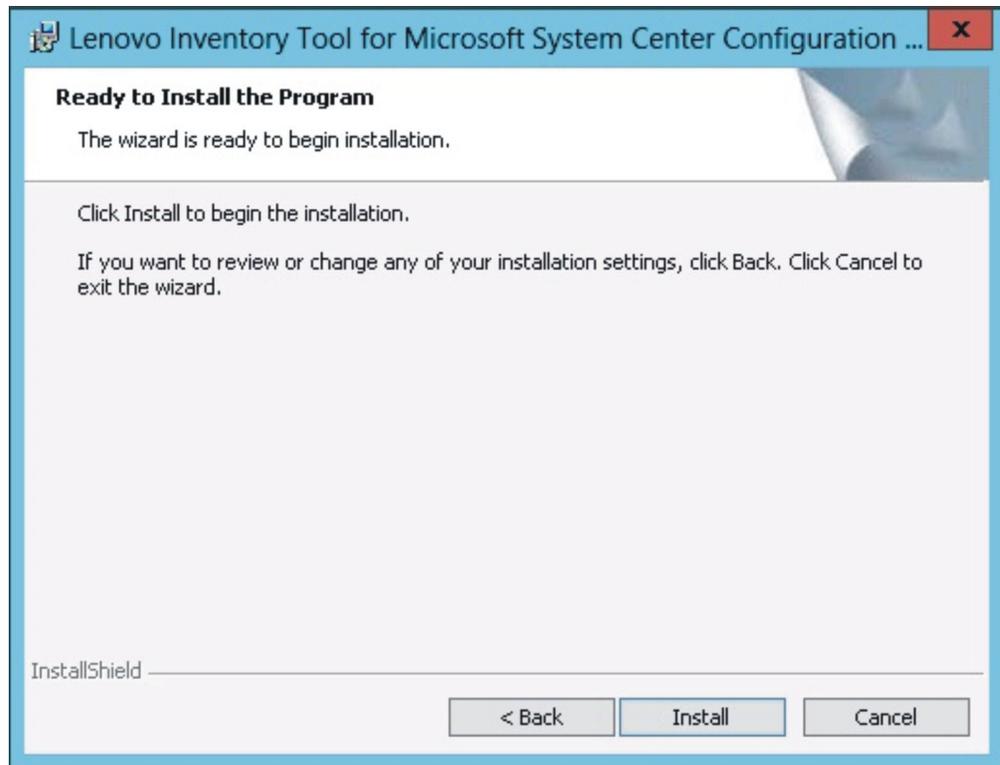


Figure 9. Ready to install the program page

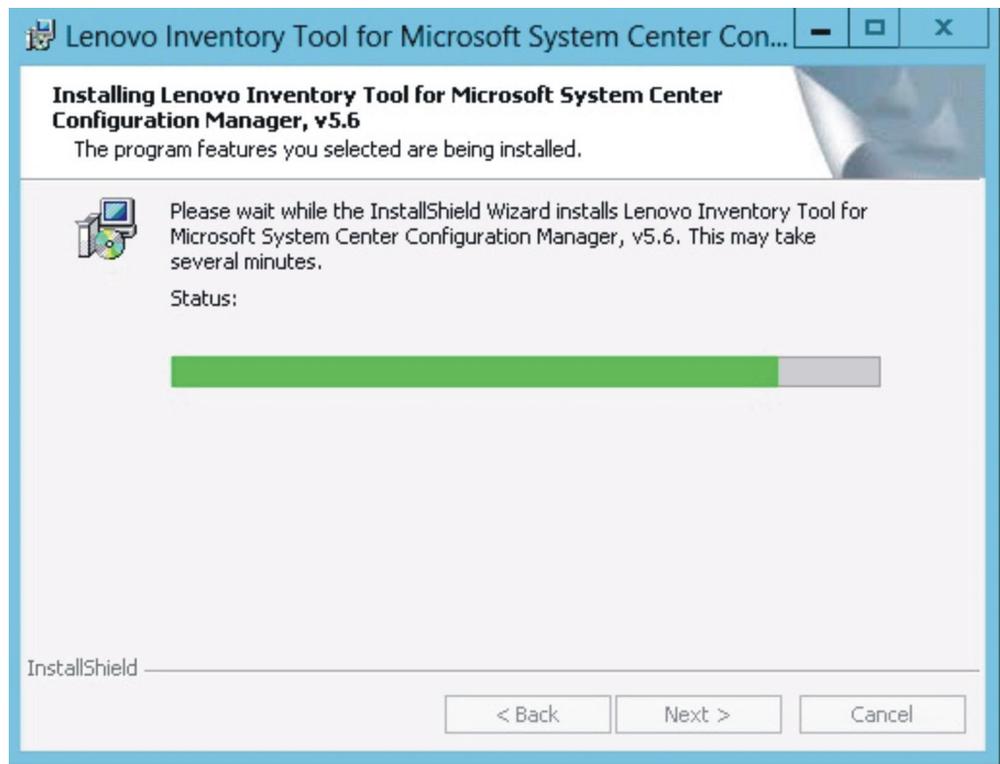


Figure 10. Installation progress being depicted

- When the installation is complete, the InstallShield Wizard Completed page opens. Click **Finish** to exit the wizard.

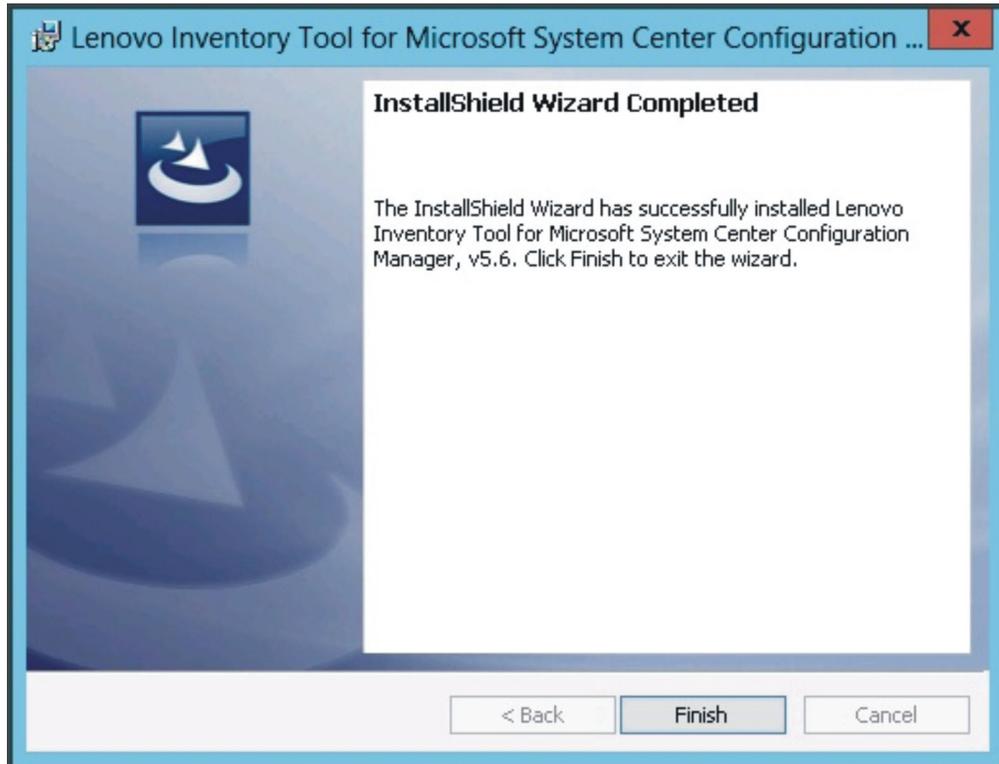


Figure 11. InstallShield Wizard Completed

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## Uninstalling Lenovo Inventory Tool

There are four methods for uninstalling Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6.

To uninstall Lenovo Inventory Tool use one of the following methods.

- Uninstall by using **Add or Remove Programs**. For the Windows Server 2008 operating system, you can use **Programs and features** to uninstall.
- Select the **Remove** option for Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6 Installer (.exe file).
- Select the **Remove** option using Lenovo Integrated Installer (.exe file).
- Select **Uninstall** from the **Start** menu.

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## Chapter 3. Working with Lenovo Inventory Tool and System Center Configuration Manager 2007

The topics in this section describe how Lenovo Inventory Tool and Microsoft System Center Configuration Manager 2007 work together.

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### Deploy the Lenovo Inventory Tool Client package from the Microsoft System Center Configuration Manager server to the Microsoft System Center Configuration Manager client

This topic describes how to deploy an Lenovo Inventory Tool Client package from the SCCM server to the SCCM client.

#### About this task

The Lenovo Inventory Tool Client package contains the file Lenovo Inventory Tool Client Setup.msi, which is used to install Lenovo Inventory Tool Client to the target machine.

#### Procedure

1. Open the SCCM console.
2. Expand **Software Distribution > Packages > Lenovo Inventory Tool Client** and then right-click **Lenovo Inventory Tool Client**.

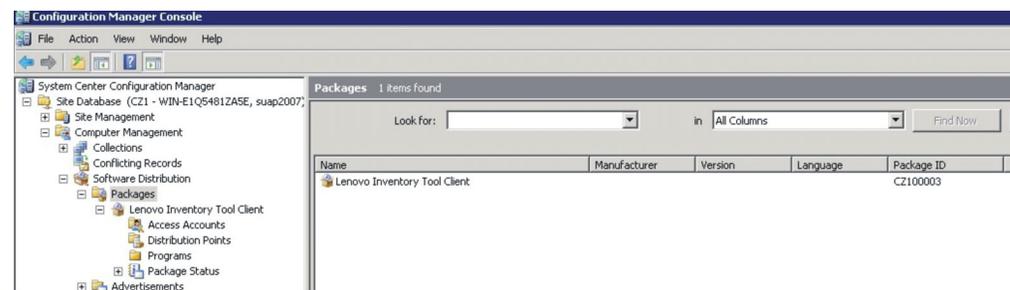


Figure 12. Lenovo Inventory Tool Client package

3. Click **Distribute**, then select **Software**.

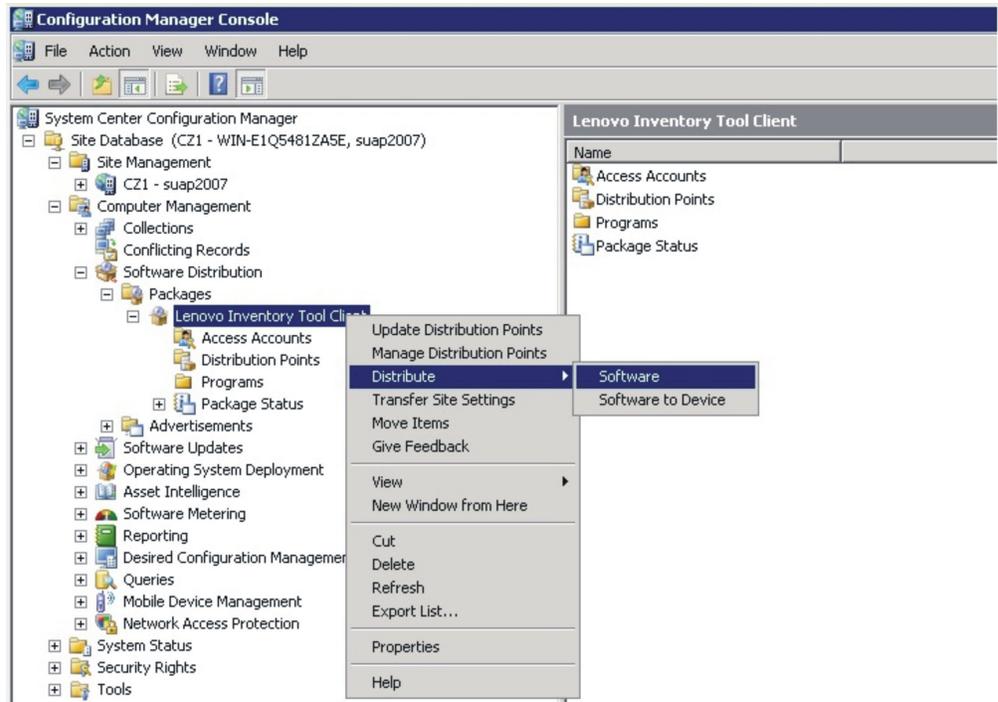


Figure 13. Distribute Lenovo Inventory Tool Client package

4. On the Welcome page, click **Next** to distribute the software from the package.

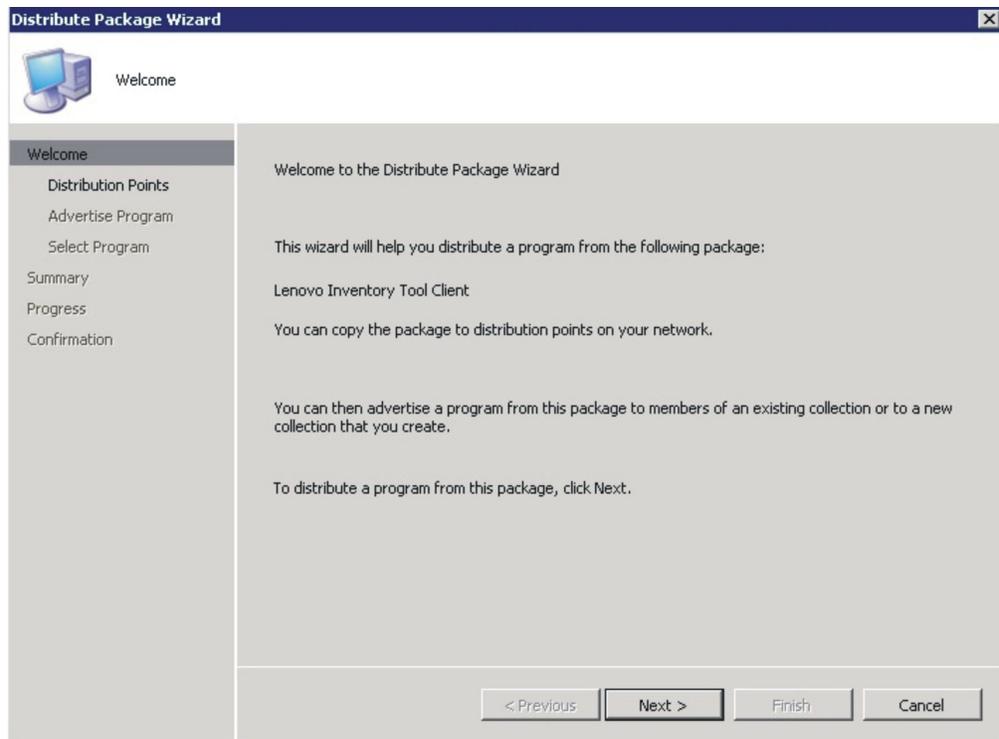


Figure 14. Distribute Package Wizard welcome page

5. On the Distribution Points page, select the distribution points where the client accesses this package, and then click **Next**.

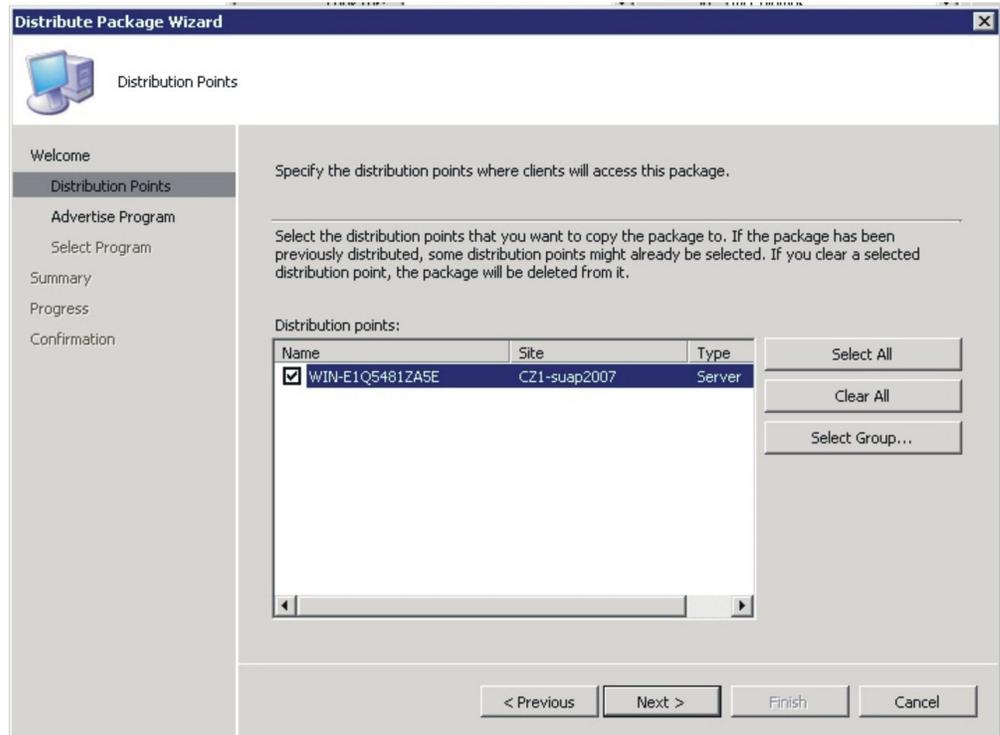


Figure 15. Distribution points

6. On the Advertise Program page, specify whether to advertise a program from this package to client resources. Select **Yes** and click **Next**.

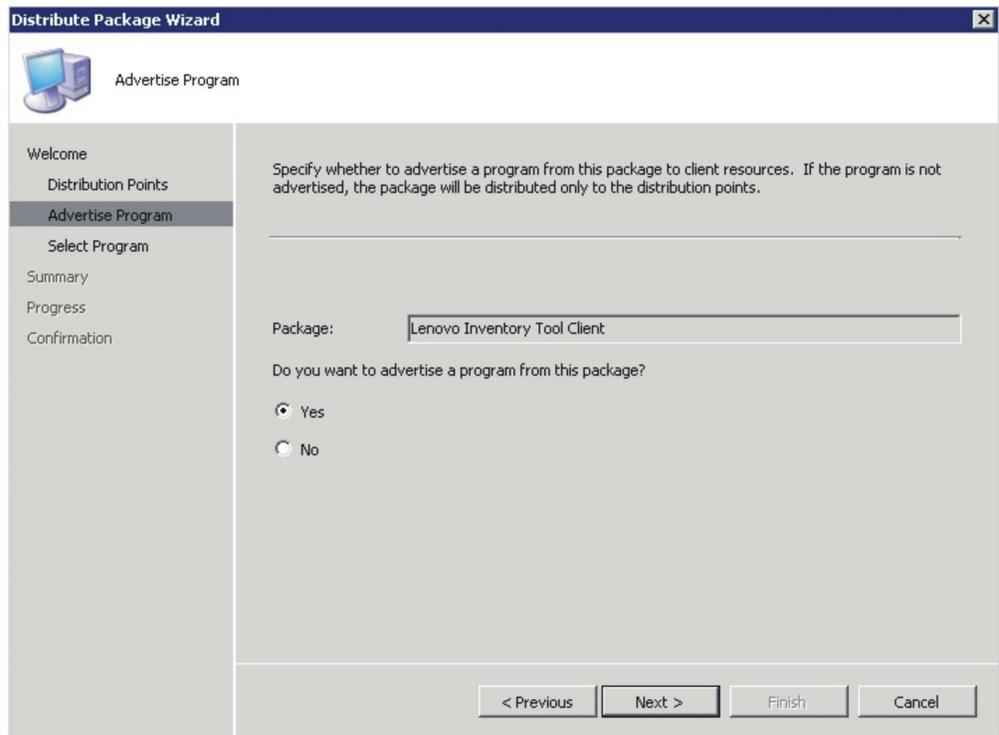


Figure 16. Advertise Program page

7. On the Select Program page, select the program to advertise to members of a collection, and then click **Next**.

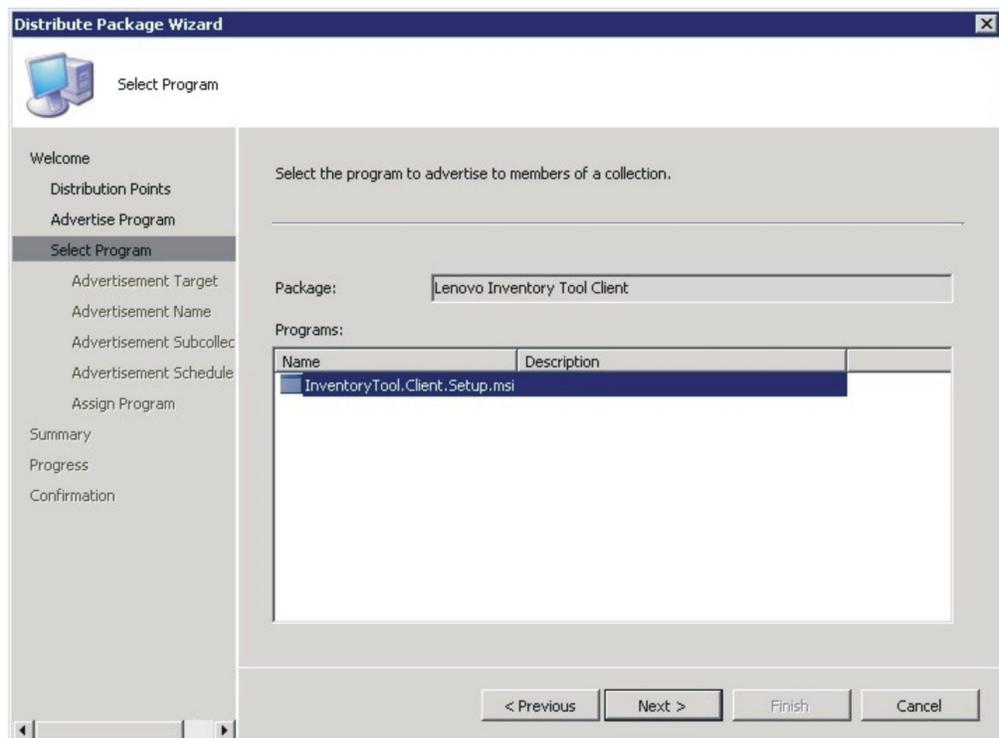


Figure 17. Select program page

8. On the Advertisement Target page, select the existing collection that you want to advertise, and then click **Next**.

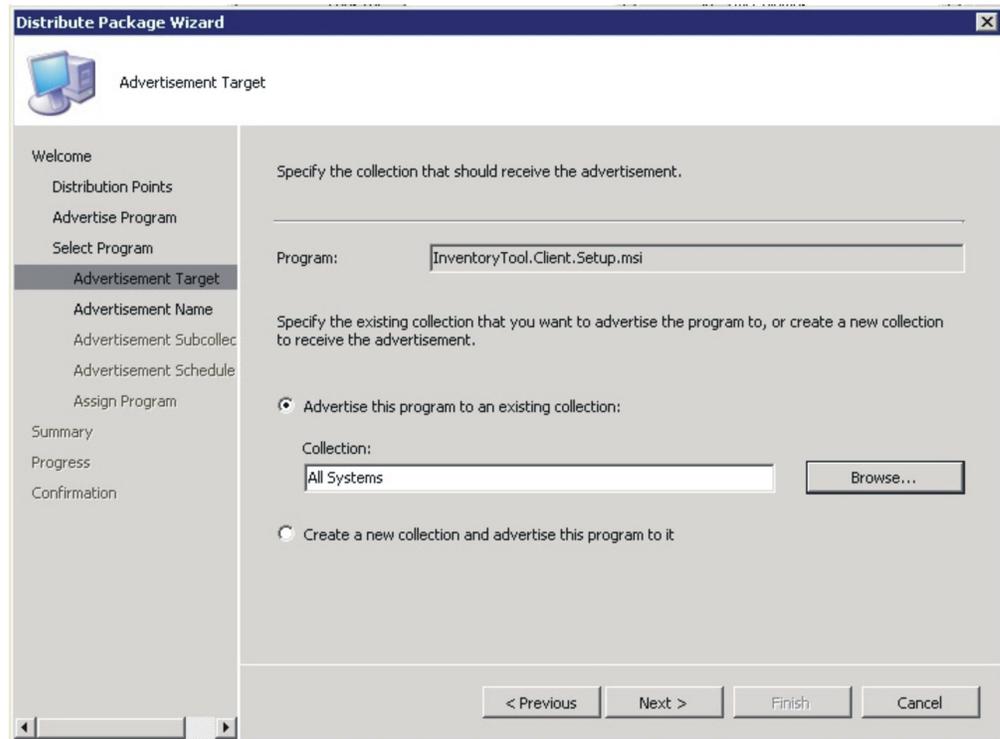


Figure 18. Advertisement Target page

9. On the Advertisement Name page, choose whether to modify the following information, and when you are finished, click **Next**.  
**Name** Enter a different name if you do not want to use the default name that is provided.  
**Comment**  
Enter a detailed description that will help you to identify the advertisement.

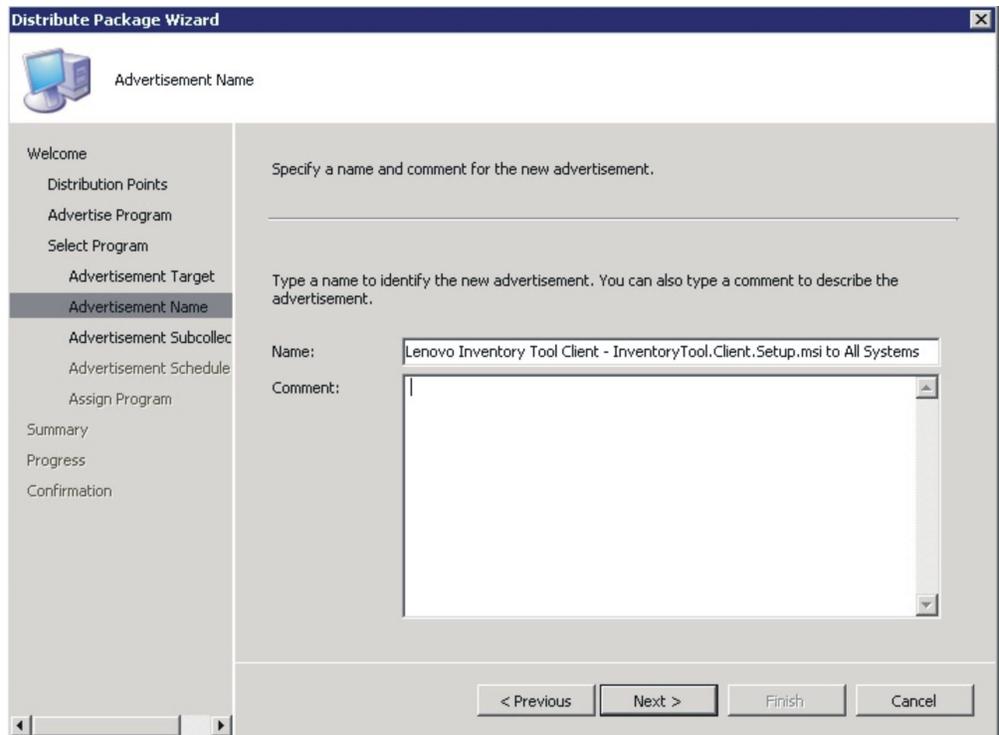


Figure 19. Advertisement Name page

10. On the Advertisement Subcollection page, select whether the advertisement should be made available to the members of the collection only or to the members of the collection and its subcollections.

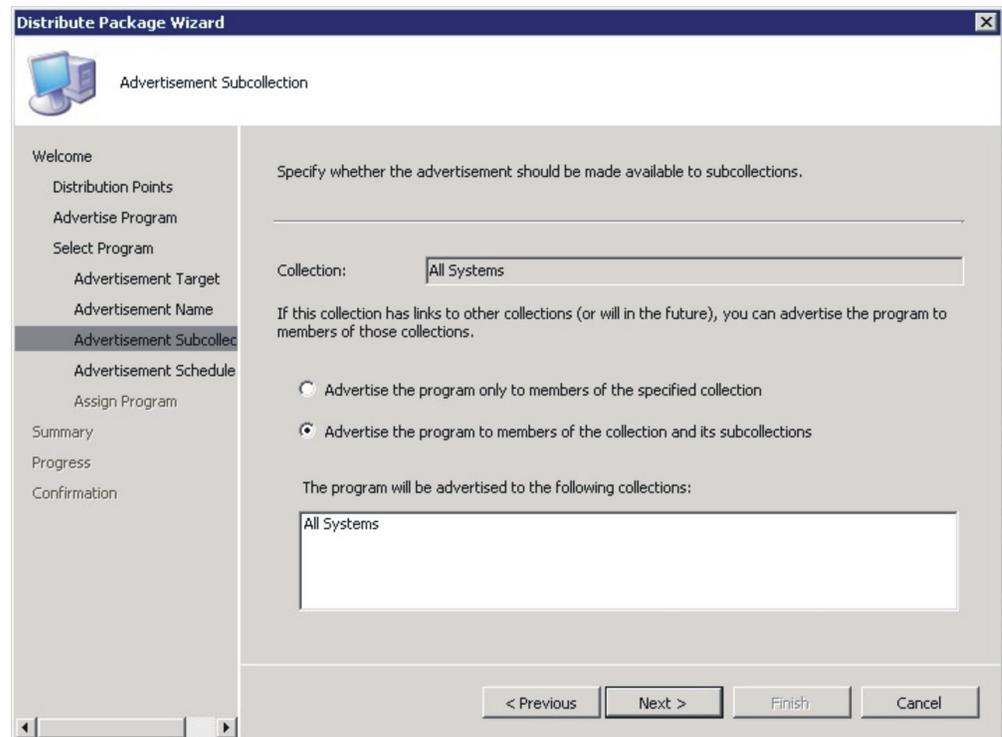


Figure 20. Advertisement Subcollection page

11. On the Advertisement Schedule page, either select or modify the following options, and click **Next**.
  - Select a date and time for the software to be advertised.
  - Select whether this advertisement should expire.
  - Select whether the client can download content from an unprotected distribution point and run locally.

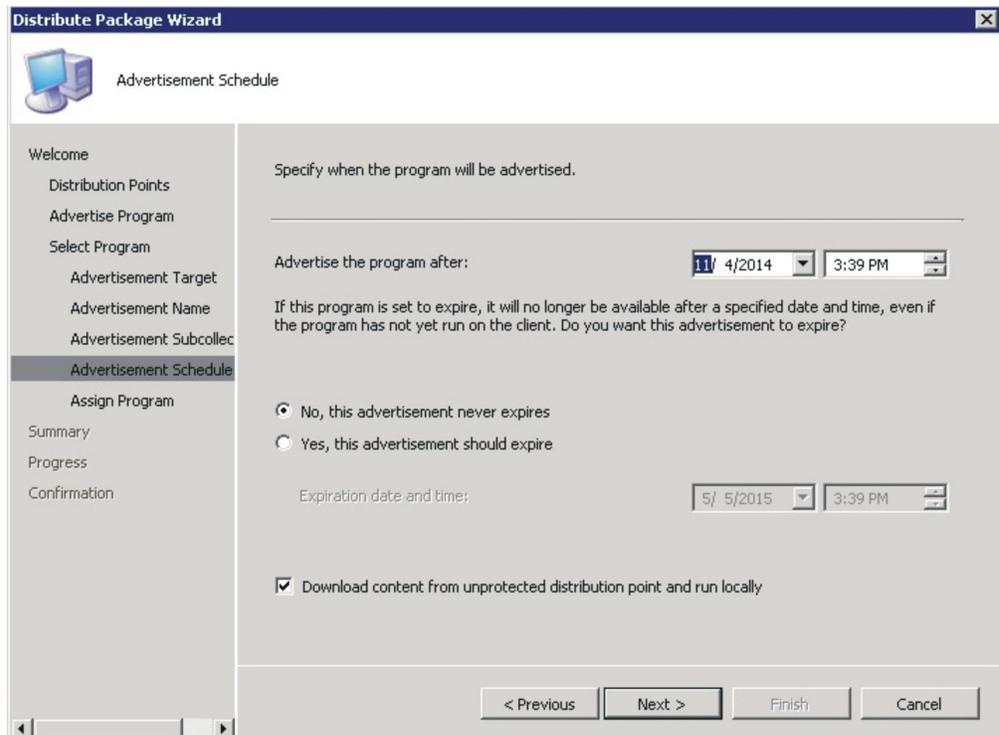


Figure 21. Advertisement Schedule page

12. On the Assign Program page, make the following selections and click **Next**.
  - Select whether to assign the program.
  - Enable wake on LAN if it is urgent.
  - Select whether to ignore maintenance windows when running the program.
  - Select whether to allow a system restart outside maintenance windows.

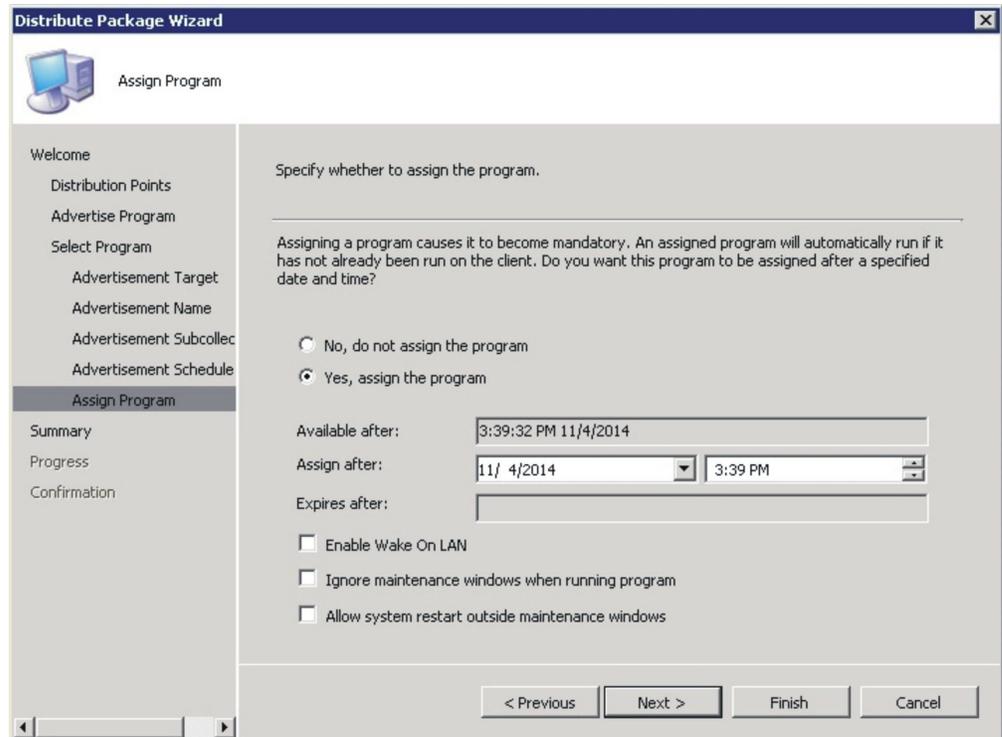


Figure 22. Assign Program page

13. On the Wizard Completed page, you can review the options that have been selected, then click **Close** to finish the distribution.

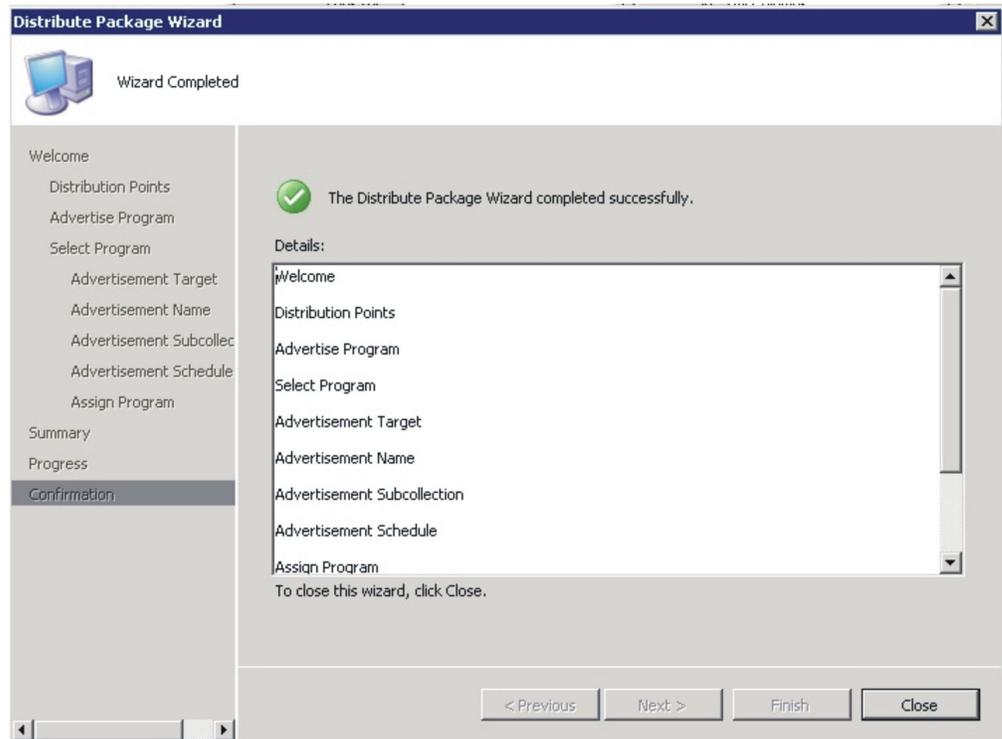


Figure 23. Wizard Completed page

## Look for hardware inventory of clients from the Microsoft System Center Configuration Manager server

When Lenovo Inventory Tool Client has been installed on the client, it can be run periodically to retrieve a hardware inventory from the Microsoft System Center Configuration Manager server.

### About this task

The following procedure describes how to look for hardware inventory of clients from the SCCM server,

### Procedure

1. Open the SCCM console.
2. Expand **Computer Management > Collections > ALL Systems**.

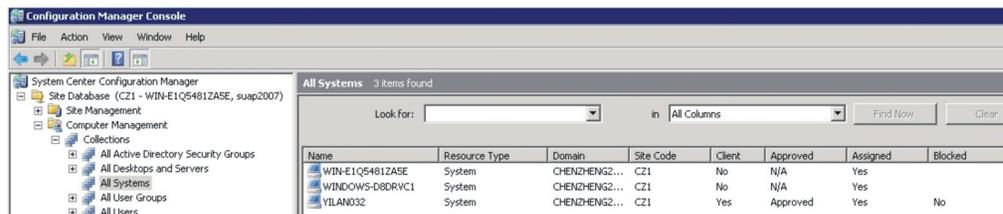


Figure 24. Select client

3. Right-click the device on the right panel that you want to inventory. Select **Start**, and then click **Resource Explorer**.

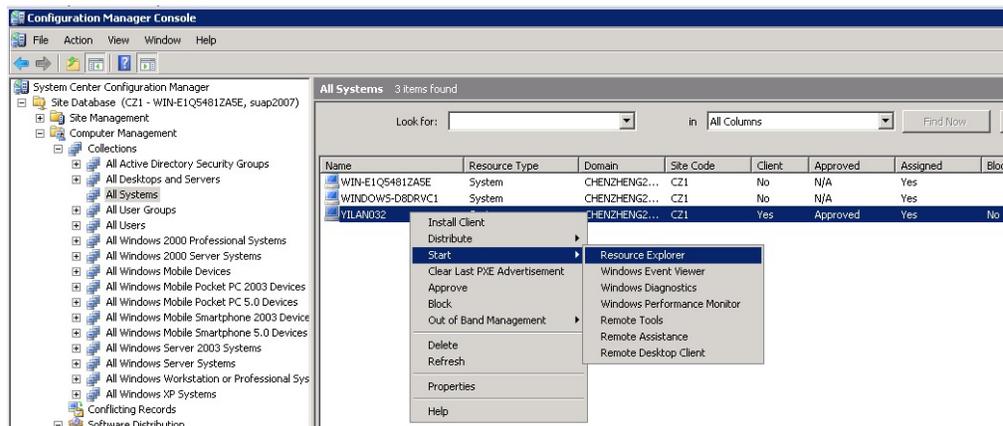


Figure 25. Start Resource Explorer wizard

4. Expand **Resource Explorer > Hardware**, and then select the resource beginning with Lenovo. The inventory information you requested is shown on the right panel.

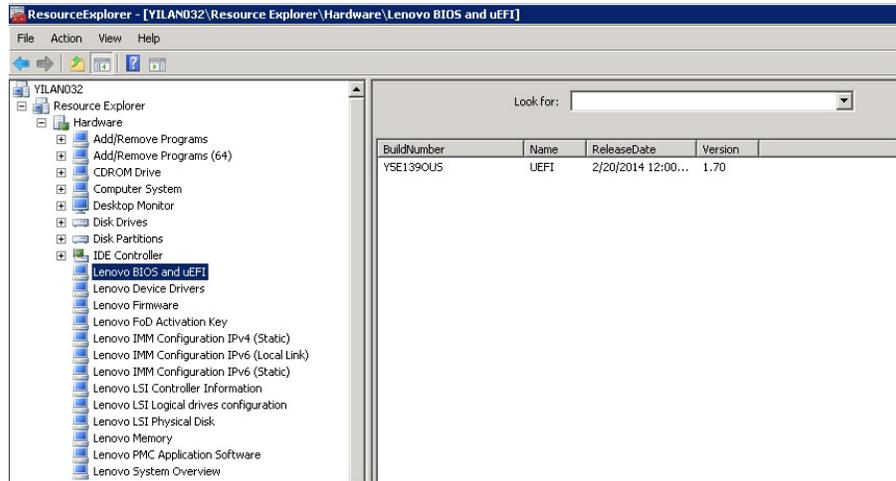


Figure 26. Look for hardware inventory



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## Chapter 4. Working with Lenovo Inventory Tool and Microsoft System Center Configuration Manager 2012

The topics in this section describe how Lenovo Inventory Tool and Microsoft System Center Configuration Manager 2012 work together.

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### Deploy the Lenovo Inventory Tool Client package from the Microsoft System Center Configuration Manager server to Microsoft System Center Configuration Manager client

The Lenovo Inventory Tool Client package contains the file `Lenovo Inventory Tool Client Setup.msi`, which is used to install Lenovo Inventory Tool Client to the target machine.

#### About this task

The following procedure describes how to deploy an Lenovo Inventory Tool Client package from the SCCM server to the SCCM client.

#### Procedure

1. Open the SCCM console.
2. Expand **Software Library** > **Overview** > **Application management** > **Packages**.

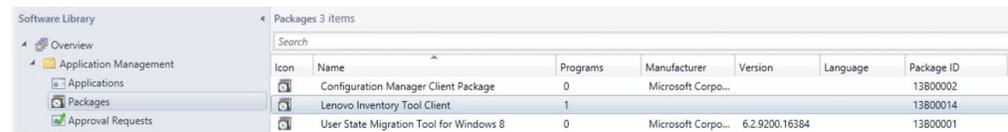


Figure 27. Lenovo Inventory Tool Client package

3. On the right panel, right-click **Lenovo Inventory Tool Client**, and select **Deploy**.

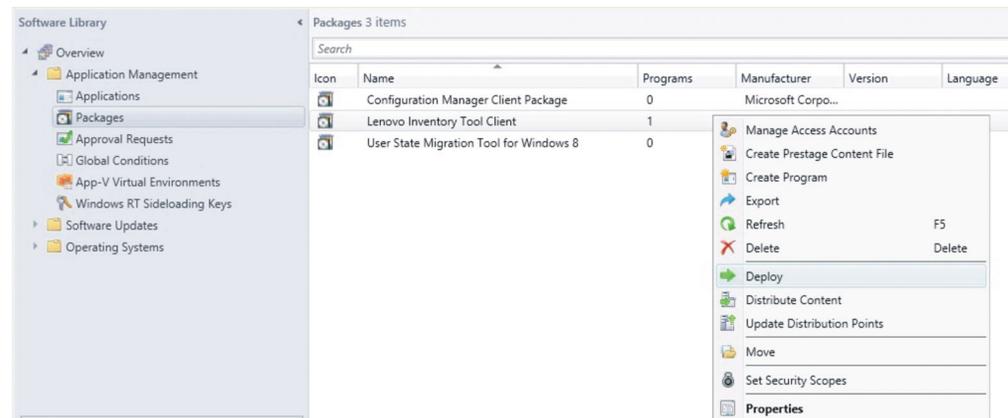


Figure 28. Deploy Lenovo Inventory Tool package

4. On the General page, enter the following information, and click **Next**.

**Collection**

Click **Browse**, and select the collection to be deployed.

**Comments**

Enter a detailed description that will help you to identify the deployment.

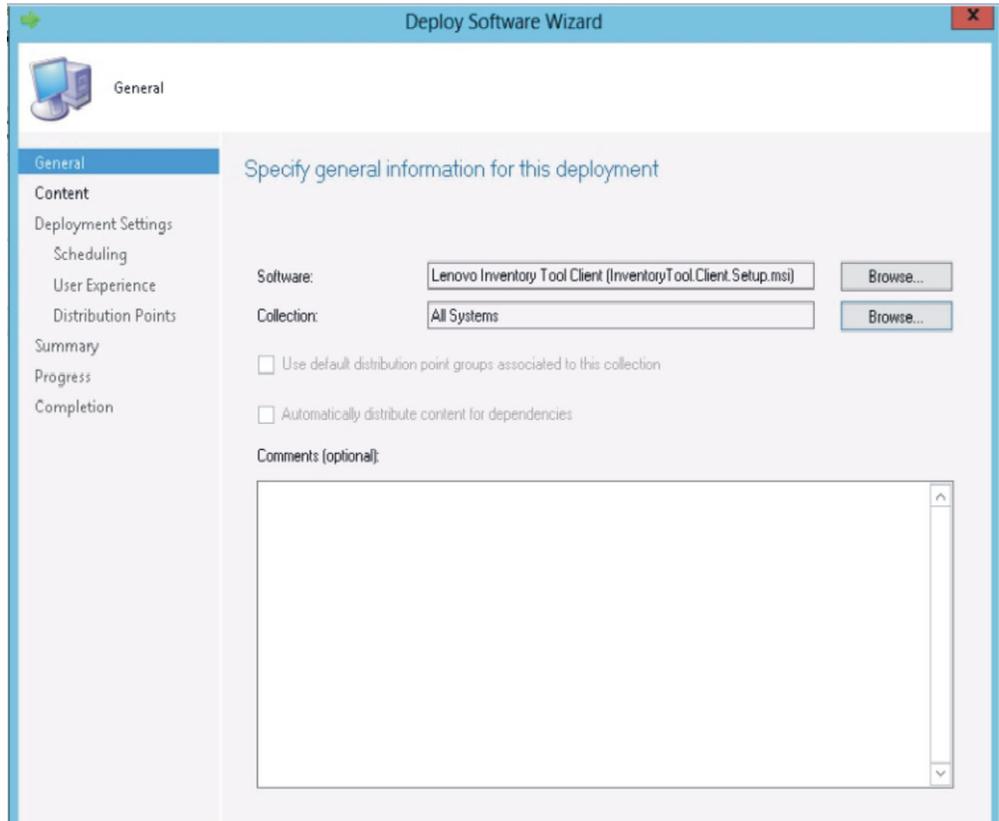


Figure 29. General page

5. On the Content page, click **Add** to add distribution points or distribution point groups, and click **Next**.

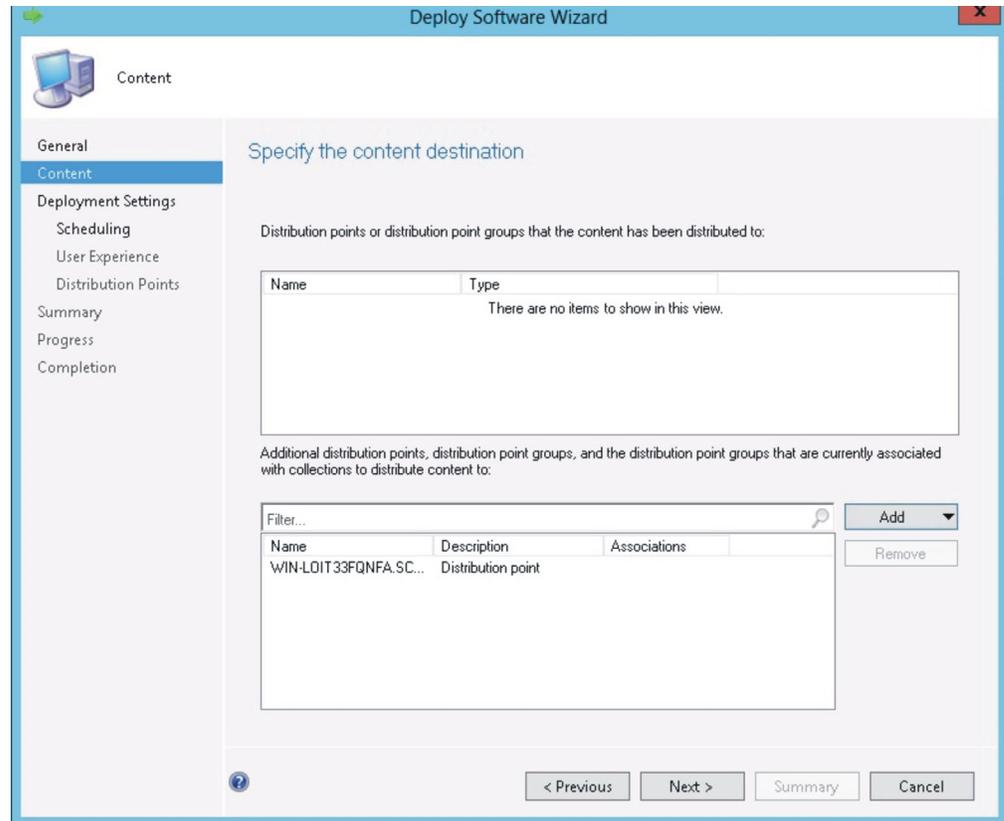


Figure 30. Content page

6. On the Deployment Settings page, specify the settings that control how the software is deployed, and click **Next**.

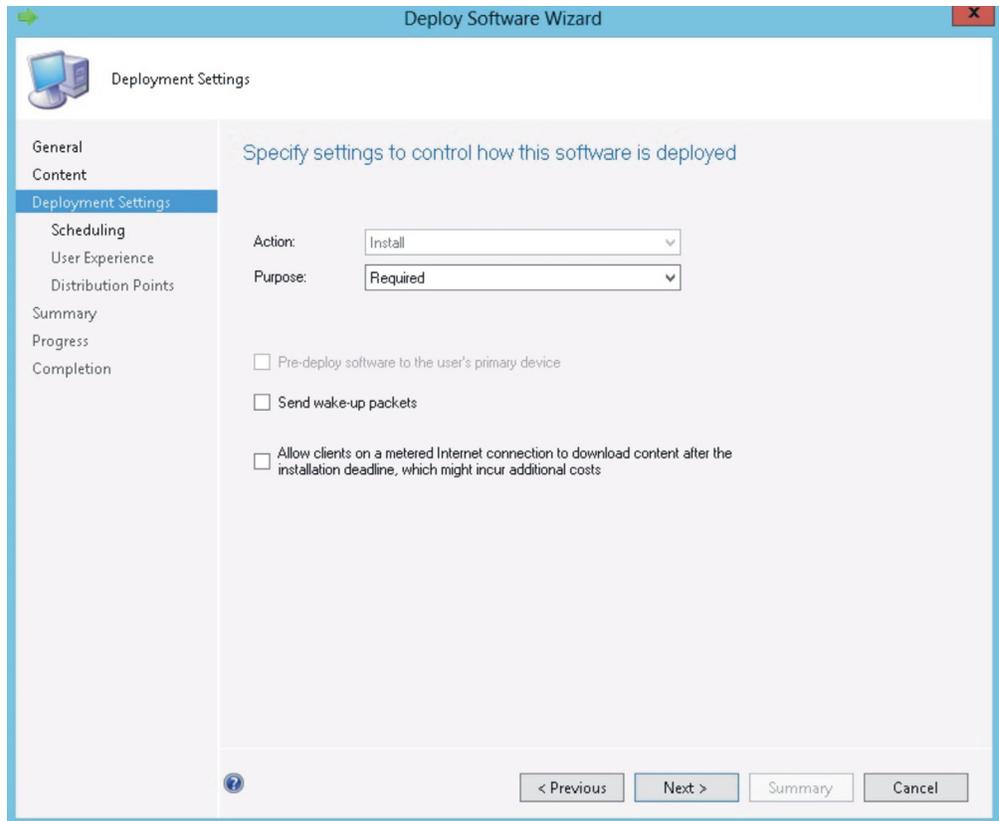


Figure 31. Deployment Settings page

7. On the Scheduling page, configure the deployment and assignment schedule if necessary. Select **As soon as possible** if you want to deploy the inventory tool client immediately.

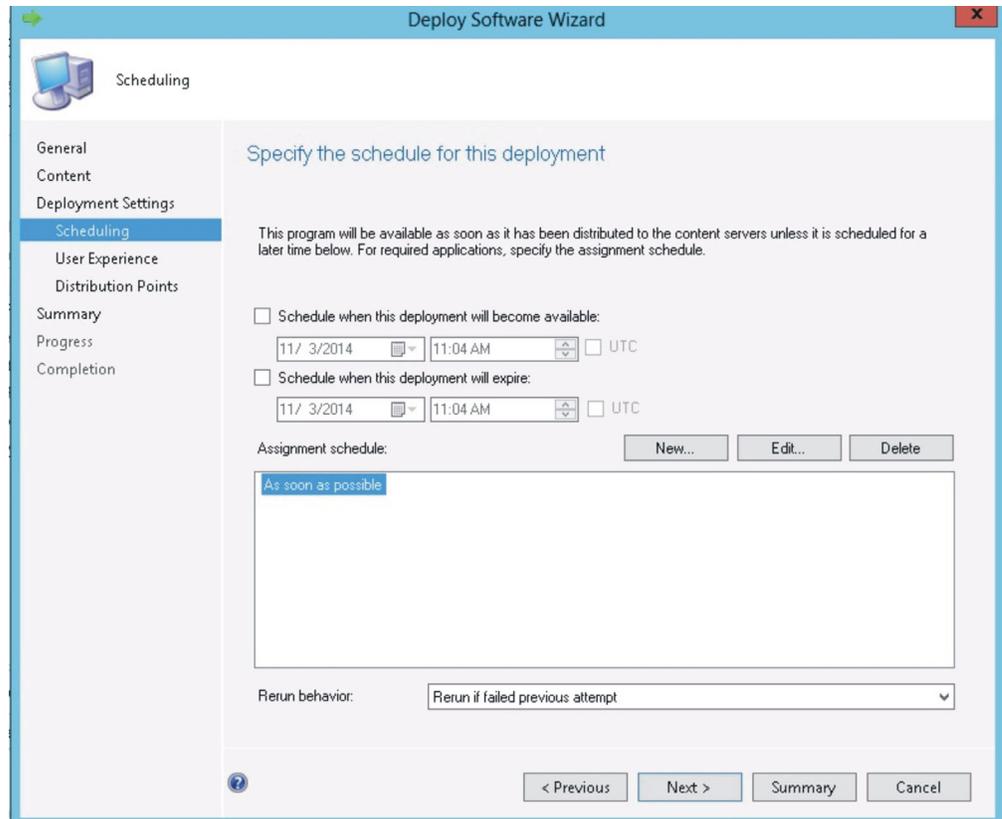


Figure 32. Scheduling page

8. Optional: On the User Experience page, select the checkbox if needed.

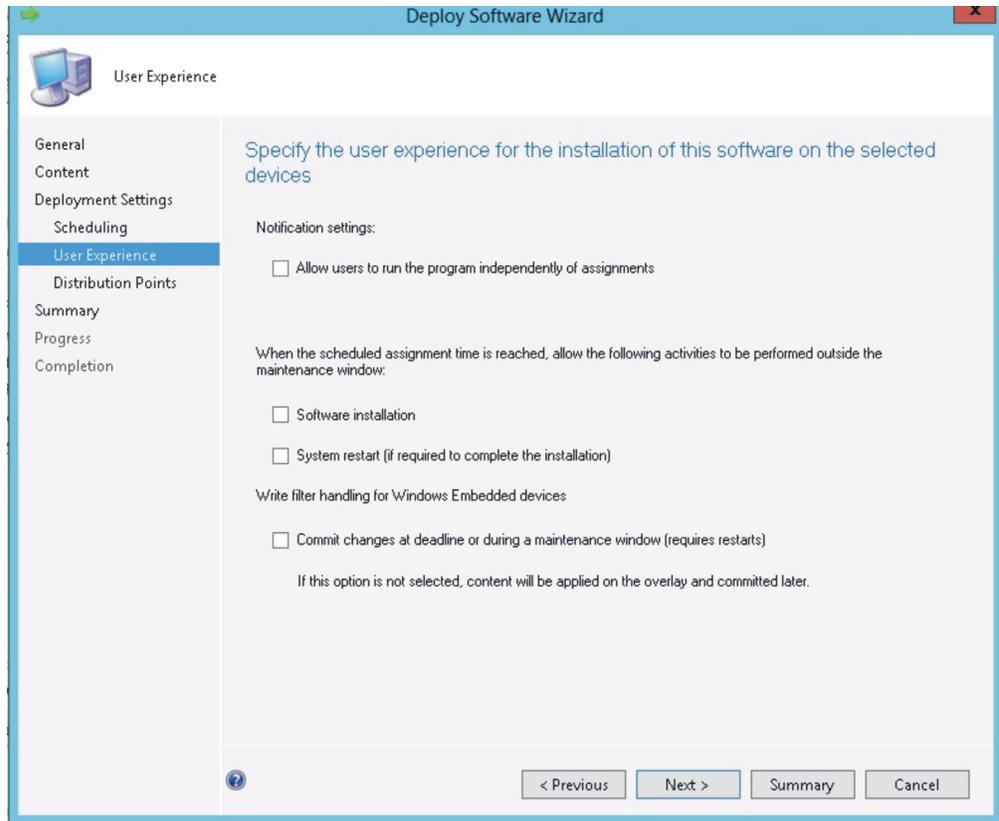


Figure 33. User Experience page

9. On the Summary page, review the configuration settings, and click **Next** to begin the deployment process.

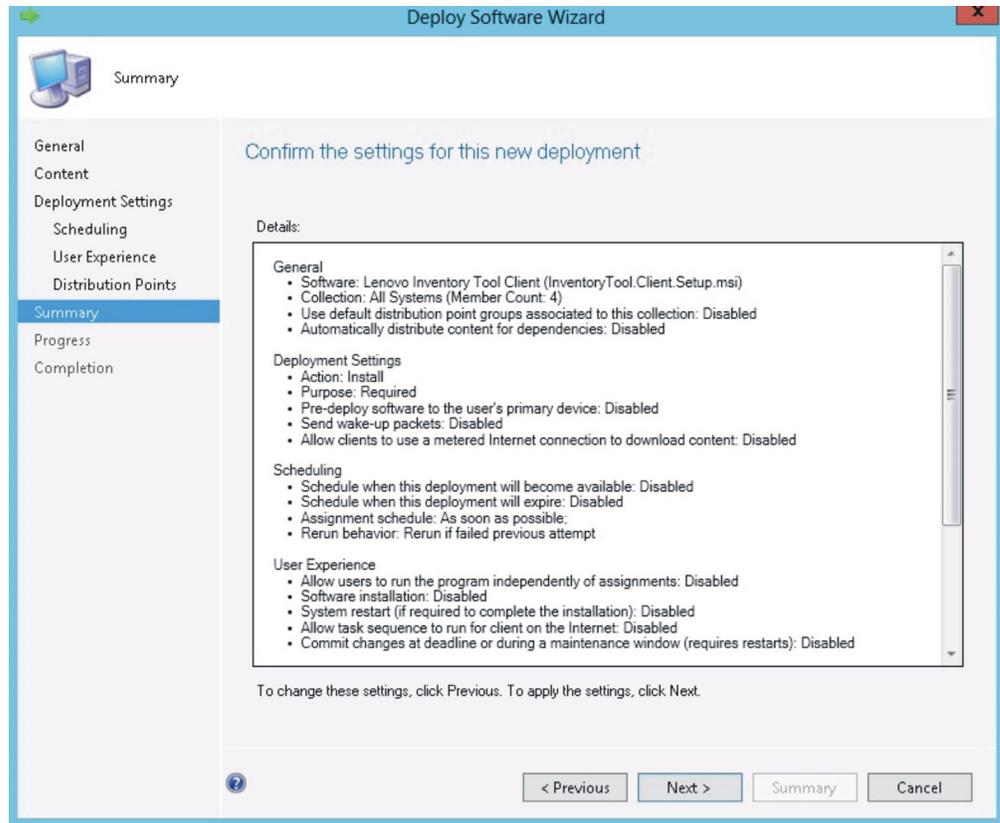


Figure 34. Summary page

10. On the Completion page, click **Close** to finish the deployment.

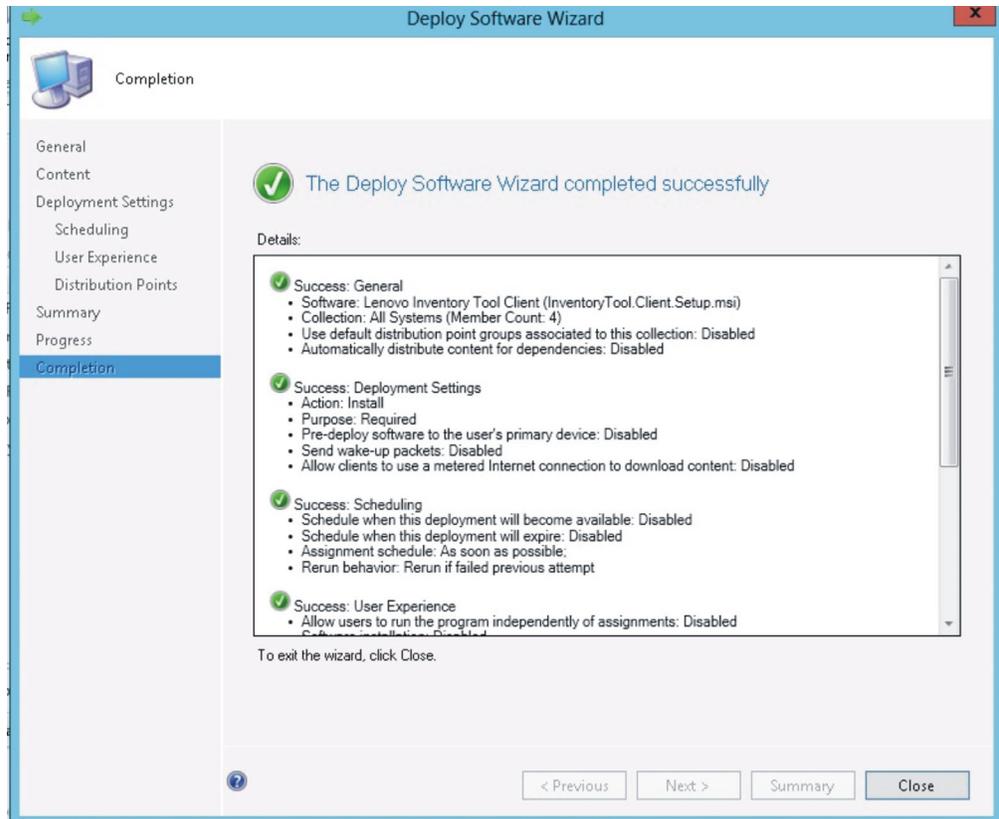


Figure 35. Completion page

## View hardware inventory of clients from the Microsoft System Center Configuration Manager server

When the Lenovo Inventory Tool Client has been installed, it can be run periodically to retrieve a hardware inventory from the Microsoft System Center Configuration Manager server.

### About this task

The following procedure describes how to view a hardware inventory of clients from the SCCM server.

### Procedure

1. Open the SCCM console.
2. Expand **Assets and Compliance > Overview > Devices**.

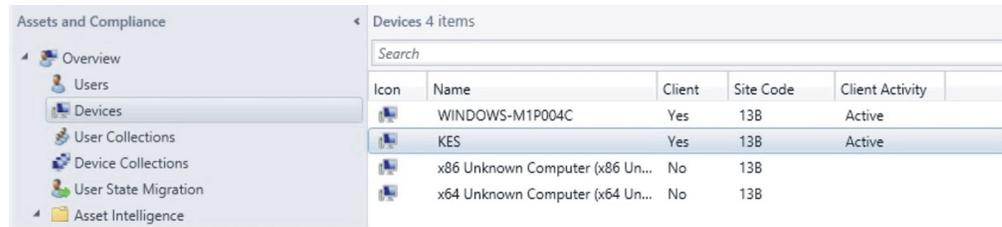


Figure 36. Select client

3. Right-click the devices on the right panel that you want to inventory. Select **Start**, and then click **Resource Explorer**.

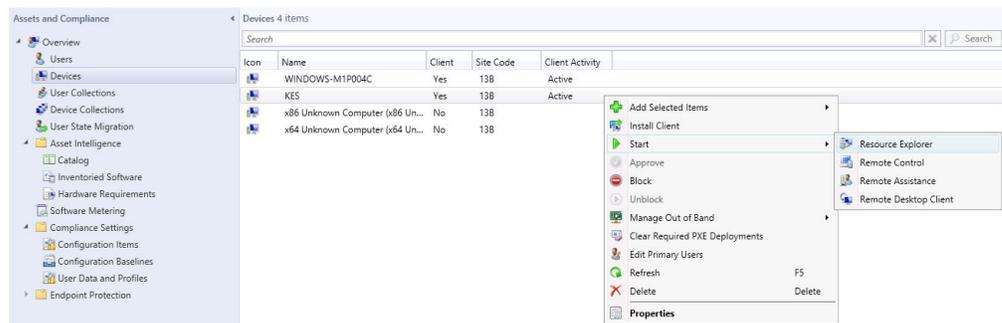


Figure 37. Start Resource Explorer

4. Expand **Resource Explorer** > **Hardware**, and then select the resource beginning with **Lenovo**. The inventory information is shown on the right panel.

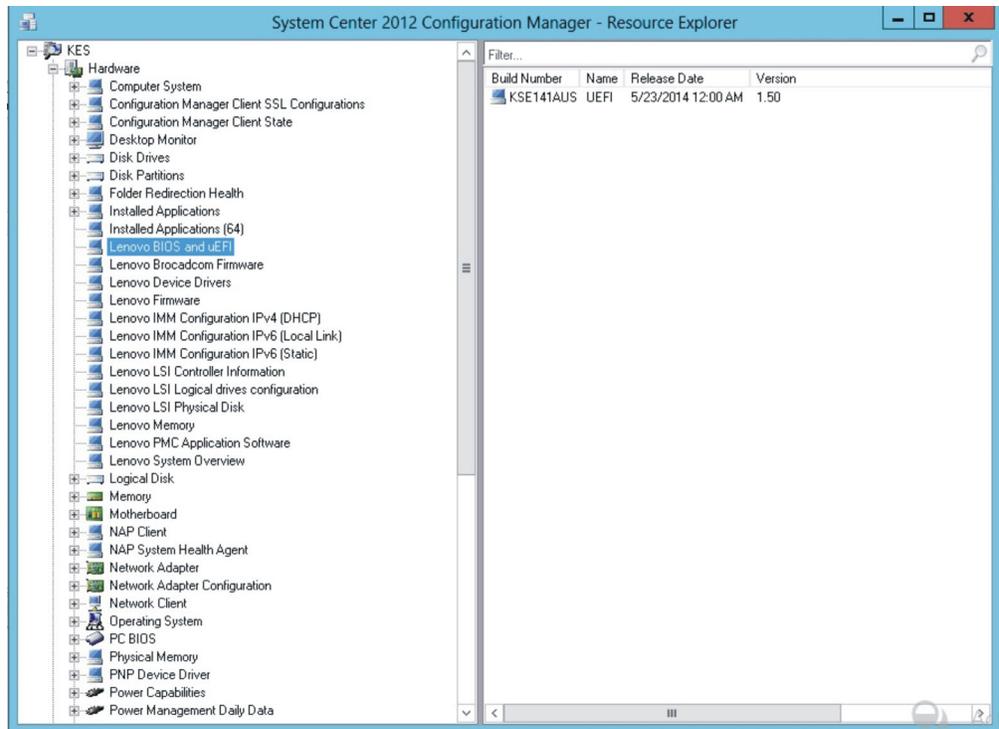


Figure 38. View hardware inventory

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## Chapter 5. Supported hardware and software

This section describes the hardware and software that is supported by Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6.

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### Supported Microsoft System Center products

Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6 supports the following Microsoft System Center products:

- Microsoft System Center Configuration Manager 2007 R2/R3
- Microsoft System Center Configuration Manager 2007 SP2
- Microsoft System Center Configuration Manager 2012
- Microsoft System Center Configuration Manager 2012 SP1
- Microsoft System Center Configuration Manager 2012 R2

### Supported client systems

The supported client systems for Lenovo Inventory Tool are listed in the following table.

#### Supported systems

*Table 2. Supported systems*

Product family name	Machine type
Lenovo BladeCenter HS12	8014, 8028, 1916
Lenovo BladeCenter HS21	1885, 8853
Lenovo BladeCenter HS21 XM	7995, 1915
Lenovo BladeCenter HS22	7870, 1936, 7809, 1911
Lenovo BladeCenter HS22V	1949, 7871
Lenovo BladeCenter HS23	7875, 1929
Lenovo BladeCenter HS23E	8038, 8039
Lenovo BladeCenter HX5	7872, 7873, 1909, 1910
Lenovo BladeCenter LS21/LS41	7971, 7972
Lenovo BladeCenter LS22/LS42	7901, 7902
IBM Flex System x220 Compute Node	7906, 2585
IBM Flex System x222 Computer Node	7916
IBM Flex System x240 Compute Node	8737, 8738, 7863
IBM Flex System x440 Compute Node	7917
IBM Flex System x240 M5 Compute Node	2591, 9532
IBM Flex System x440 Compute Node	7167, 2590
IBM NeXtScale nx360 M5	5465
IBM NeXtScale nx360 M5 DWC	5467, 5468, 5469
x3550 M5	5463
x3650 M5	5462
IBM NeXtScale Node	5455

Table 2. Supported systems (continued)

Product family name	Machine type
IBM Smart Analytics System	7949
IBM System x <sup>®</sup> iDataPlex <sup>®</sup> dx320 server	6388, 7326
IBM System x iDataPlex dx360 M2 server	7321, 6380, 7323
IBM System x iDataPlex dx360 M3	6391
IBM System x iDataPlex dx360 M4	7912, 7913
IBM System x iDataPlex Direct Water Cooled dx360 M4 server	7918, 7919
IBM System x3100 M4	2582
IBM System x3200	4362, 4363
IBM System x3200 M2	4367, 4368
IBM System x3200 M3	7327, 7328
IBM System x3250 M2	4190, 4191, 4194, 7657
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	7973, 7974, 7975, 7976
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, 7945, 5454
IBM System x3650 M4	7915
IBM System x3650 M4 HD	5460
IBM System x3690 X5	7147, 7148, 7149, 7192
IBM System x3755 M3	7164
IBM System x3850 M2	7141, 7144, 7233, 7234
IBM System x3850 X5	7145, 7146, 7191, 7143

Table 2. Supported systems (continued)

Product family name	Machine type
IBM System x3850 X6	3837
IBM System x3950 M2	7141, 7144, 7233, 7234
IBM System x3950 X5	7143, 7145, 7146, 7191

## Supported operating systems

Several Windows operating systems are supported on client machines.

The following operating systems are supported on client machines:

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

## Required software on client machines

Microsoft .NET Framework Version 2.0 is required on client machines.



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## Appendix A. Troubleshooting

This section provides information to help you resolve issues that might arise.

### **Lenovo Inventory Tool cannot be installed**

.NET Framework 2.0, 3.0, or 3.5 must be installed on the SCCM server as a prerequisite for the Lenovo Inventory Tool installation.

**Issue: Lenovo Inventory Tool cannot install.**

#### **Possible solution:**

Either install or ensure that .NET Framework 3.5 is installed on the SCCM server or client.



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## Appendix B. Accessibility features for Lenovo Inventory Tool

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

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

Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6 supports the accessibility features of the system management software in which they are integrated. Refer to your system management software documentation for specific information about accessibility features and keyboard navigation.

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

You can view the publications for Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6 in Adobe Portable Document Format (PDF) using the Adobe Acrobat Reader. You can access the PDFs from the Lenovo Inventory Tool for Microsoft System Center Configuration Manager, v5.6 download site.

### **IBM and accessibility**

See the IBM Human Ability and Accessibility Center Website for more information about the commitment that IBM has to accessibility.



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## Important notes

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

When referring to processor storage, real and virtual storage, or channel volume, KB stands for 1 024 bytes, MB stands for 1 048 576 bytes, and GB stands for 1 073 741 824 bytes.

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