lenovo

Lenovo Configuration Pack for Microsoft System Center Configuration Manager User's Guide

Version 6.0

lenovo

Lenovo Configuration Pack for Microsoft System Center Configuration Manager User's Guide

Version 6.0

Note

Before using this information and the product it supports, read the information in "Notices" on page 101.

Edition notice

This edition applies to version 6.0 of the Lenovo Configuration Pack for Microsoft System Center Configuration Manager User's Guide and to all subsequent releases and modifications until otherwise indicated in new editions.

© Copyright Lenovo 2014, 2015. Portions © Copyright IBM Corporation 2014.

LIMITED AND RESTRICTED RIGHTS NOTICE: If data or software is delivered pursuant a General Services Administration "GSA" contract, use, reproduction, or disclosure is subject to restrictions set forth in Contract No. GS-35F-05925.

Contents

Figures
Tables
About this publication
Information resources <th.< th=""></th.<>
Chapter 1. Introduction to Lenovo Configuration Pack for Microsoft SystemCenter Configuration Manager1Overview1How Lenovo Configuration Pack for Microsoft System Center Configuration Manager supports Lenovo systems2Advanced Settings Utility (ASU).2
Chapter 2. Installing the Lenovo Configuration Pack v6.0
Chapter 3. Working with Lenovo Configuration Pack and Microsoft System Center Configuration Manager 9 Using Lenovo Configuration Pack with configuration data

Deleting a configuration item
description file 35
Importing the configuration description YMI file 38
Charling the ligence welidetion status
The Long of Configuration Real CAR (i)
The Lenovo Configuration Pack CAB file 41
Exporting configuration items to the Lenovo
Configuration Pack CAB file
Exporting configuration items to the SCCM Console 44
Applying Lenovo Configuration Pack using the
Microsoft System Center Configuration Manager
2007 console
Importing configuration data into DCM 48
Viewing configuration item properties 54
Creating a baseline
Assigning a baseline to a collection
Evaluating a baseline on an endpoint.
Running Homepage Summarization 68
Applying Lenovo Configuration Pack using the
Microsoft System Center Configuration Manager
2012 console 70
Importing configuration data into DCM 70
Viewing configuration data into DCM
Custing configuration item properties
Assigning a baseline to a collection
Evaluating a baseline on the endpoint 82
Running Lenovo Configuration Capture
Chapter 4. Hardware and software
support
Chapter 5. Troubleshooting
Notices
Trademarks 102
Important notes 102

le davi															100
index.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	103

Figures

1	InstallChield Wiggard welcome page	2
1. 2	Software License Agreement	. 3
∠. 3	Trial Version page	. 1
<i>4</i>	Destination Folder page	. 5
т. 5	Ready to Install the Program page	. 0
6	Installation status page	. 0
7	InstallShield Wizard Completed page	. 7
8	No License found	. 0
9	Lenovo Configuration Pack Editor home page	. 10
10.	General Information page	. 12
11.	Setting Collection Information page	. 13
12.	Property Thresholds page	. 13
13.	Setting Editor page	. 14
14.	Property Thresholds page.	. 19
15.	Setting Collections list	. 20
16.	Setting Collection properties	. 20
17.	General Information page.	. 21
18.	Property Thresholds tab	. 22
19.	Duplicate Setting Collection function	. 23
20.	Duplication Dialog window	. 23
21.	General Information page.	. 24
22.	IMM Information page.	. 25
23.	Asu.exe detection notification window	. 26
24.	Configuration Items page	. 27
25.	Add Setting Collections page	. 27
26.	Add Setting Collections list	. 28
27.	Configuration Items list	. 29
28.	Configuration item properties	. 29
29.	Configuration Pack Editor - General	
	Information page.	. 30
30.	IMM Account tab	. 31
31.	Asu.exe detection notification window	. 32
32.	Setting Collections tab	. 32
33.	Add Setting Collections selection page	. 33
34.	Duplicate Configuration Item function	. 34
35.	Duplication Dialog window	. 34
36.	Exporting configuration data to configuration	
	file	. 35
37.	Export to Configuration Description (.xml)	
	page	. 36
38.	Export configuration description file Save as	
	window	. 37
39.	Export Succeeded message	. 38
40.	Import Configuration File menu	. 39
41.	Import a Configuration XML file window	39
42.	Confirm Replace Setting Collection window	40
43.	License menu option	. 41
44.	License Entitlement window	. 41
45.	Export to Lenovo Configuration Pack for SCCM 2007 page.	. 42
46.	Export to Lenovo Configuration Pack for	40
47	SUCIVI 2012 WINDOW	. 43
4/.	Export Succeeded Window	. 44
4ð. 40	Select the Configuration Item page.	. 45
49. 50	Configuration Itoma Information page	40 47
<i>30.</i>	Configuration Items Information page	. 47

51.	Export Succeeded window	. 48
52.	Import Configuration Data selection	. 49
53.	Import Configuration Data Wizard	. 49
54.	Selecting the .cab file	. 50
55.	Skip Authenticode signature check window	51
56.	Importing the selected .cab file	. 51
57.	Imported configuration items	. 52
58.	Successful completion page	. 53
59.	Imported configuration items in the	
	Configuration Manager Console	. 54
60.	Settings tab	. 55
61.	Detection Method tab	. 56
62.	New Configuration Baseline function	. 57
63.	Create Configuration Baseline Wizard	. 57
64.	Applications and general link	. 58
65.	Choose configuration items page	. 59
66.	Applications and general link with	
	configuration items	. 60
67.	Assign to a Collection function	. 61
68.	Choose Collection page	. 61
69.	Set Schedule page	. 62
70.	Configuration Manager in Control Panel folder	63
71.	Action Initiated window	. 64
72.	Configurations tab	. 65
73.	SCCM Client Agent Status	. 66
74.	Configurations tab with available View Report	
	button	. 66
75.	Evaluated setting with no value returned	67
76.	Windows Event Viewer logs	. 68
77.	Run Homepage Summarization function	69
78.	Baseline report	. 69
79.	Import Configuration Data function	. 70
80.	Select Files function.	. 71
81.	Selecting the exported .cab file	. 71
82.	Publisher Check window	. 72
83.	Importing the selected .cab file	. 73
84.	Confirm the configuration data	. 74
85.	Successful completion	. 75
86.	Imported configuration items	. 75
87.	Settings tab	. 76
88.	Detection Method tab	. 77
89.	Create Configuration Baseline function	78
90.	Add Configuration Items	. 79
91.	Configuration Items list	. 80
92.	Deploy to a Collection function	. 81
93.	Assign Configuration Baseline function	82
94.	Configuration Manager in Control Panel folder	83
95.	Action Initiated window	. 84
96.	Configurations tab	. 85
97.	Configurations tab with View Report button	
	available	. 86
98.	Summary of evaluated results	. 87
99.	Windows Event Viewer logs	. 87
100.	Remediated Rules	. 87
101.	Welcome page	. 88
102	Selecting the ASU file	. 89
		/

103.	General Information page				. 89
104.	Collecting information				. 90
105.	IMM settings				. 91
106.	uEFI settings				. 91
107.	UEFI (Romley Platform) setting	s			. 92

108.	Incorrect IMM account is incorrect	93
109.	Export Page	93
110.	Export Successfully Completed	94
111.	Lenovo Configuration Pack Editor - Setting	
	Editor page)()

Tables

- 1.
- 2.

About this publication

This guide provides instructions for installing Lenovo Configuration Pack for Microsoft System Center Configuration Manager and using it to author and manage Lenovo configuration data in your environment.

Conventions and terminology

Notices used in this guide

The following notices are designed to 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.

Terminology used in this guide

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

ASU Lenovo Advanced Settings Utility

Configuration Item

A grouping of Setting Collections defined and managed by the Lenovo Configuration Pack.

DCM Desired Configuration Management

DCM Configuration Baseline

A Configuration Baseline composed of other configuration items. The baseline can be assigned to the SCCM client collection. You can evaluate these baselines on the endpoint.

DCM configuration item

Refers to the fundamental structural unit of a Desired Configuration Management system.

DCM configuration setting

A configuration setting that is composed of other configuration settings. You can define the evaluation condition and severity in each configuration setting.

Digest Schema

In Desired Configuration Management (DCM), the digest definition XML Schema Definition (XSD) defines the DCM documents (configuration items). This includes the constraints on the elements, attributes that can appear and their relationship to each other, and what types of data can be in them. The Lenovo Configuration Pack XML file must align with the digest schema standard that can be imported into the DCM server.

Lenovo Configuration Capture

A tool that captures IMM/uEFI/uEFI (Romley Platform) settings from an Lenovo server, and exports the captured settings to an Lenovo System Configuration Description.

Lenovo configuration data

Lenovo System Configuration Itemconfiguration items, Lenovo System Setting Collections and Lenovo System Settings are collectively called Lenovo configuration data.

Lenovo Configuration Pack

The Lenovo Configuration Pack is a .cab file that contains configuration items and baselines. You can import configuration items and baselines by importing the Lenovo Configuration Pack into the DCM server.

Lenovo Configuration Pack Editor

An editor that can create and edit Lenovo configuration items and Setting Collections, and export Lenovo configuration data to an Lenovo Configuration Description.

Lenovo System Configuration Description

An XML file that contains Lenovo configuration items and Setting Collections.

Lenovo System Configuration Item

A configuration item that is composed of other Lenovo Setting Collections.

Lenovo System Configuration Setting

One Lenovo configuration setting defines one property of IMM/uEFI and its expected value, and returns an error when the property is not compliant with the expected value.

Lenovo System Configuration Setting Collection

A setting collection that contains one or more Lenovo System Configuration Settings. In this release, a collection has a firmware type of IMM or uEFI.

SCCM

Microsoft System Center Configuration Manager

Information resources

You can find additional information about Lenovo Configuration Pack for Microsoft System Center Configuration Manager on the World Wide Web.

PDF files

You can 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 respective PDF files located on the Lenovo System x Integration Offerings for Microsoft Systems Management Solutions portal website. Please click the link provided to locate the individual product pages for each publication.

Saving PDF files

To save a PDF file, complete the following steps:

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

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

3. Navigate to the directory in which you want to save the PDF file.

4. Click **Save**.

World Wide Web resources

The following web pages provide resources for understanding, using, and troubleshooting $IBM^{\textcircled{B}}$ System x, Lenovo BladeCenter^B blade servers, and systems-management tools.

System Management with Lenovo XClarity Solution

This website provides an overview of Lenovo XClarity solution which integrates into System x M5 and M6, as well as Flex System to provide system management capability.

Lenovo XClarity Integrator for Microsoft System Center

Here you can locate the latest downloads for Lenovo Configuration Pack for Microsoft System Center Configuration Manager.

IBM Support Portal

Locate support for Lenovo hardware and systems-management software.

IBM ServerProven[®] pages

IBM ServerProven: Compatability for System x hardware, applications, and middleware pages

Lenovo ServerProven: Compatibility for BladeCenter products pages

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

TechNet Library: Configuration Manager 2007 page

Locate support for the System Center Configuration Manager.

Chapter 1. Introduction to Lenovo Configuration Pack for Microsoft System Center Configuration Manager

The topics in this section provide an overview of Lenovo Configuration Pack v6.0.

Overview

Lenovo Configuration Pack for Microsoft System Center Configuration Manager provides the following support:

Trial license support

Trial license support is automatically activated if no product license is activated when this product is installed. To be sure that you receive the full length of the trial license support, ensure that your system time is correct. After the trial license expires, you must activate the product license or the premium features that are disabled. To obtain the product license, contact your local Lenovo Sales representative or Business Partner.

Free features

This release includes the following features:

Capture IMM/uEFI/uEFI (Romley Platform) settings

Lenovo Configuration Capture can capture IMM/uEFI/uEFI (Romley Platform) settings from an Lenovo server, and export the captured settings to an Lenovo system configuration description file. The exported configuration description file can then be imported into any Lenovo Configuration Pack Editor.

Premium features

The following features are fee-based functions that are enabled with a valid product license of v4.0 or later:

Export an Lenovo system configuration item to an SCCM Console: This feature provides the ability to import configuration items to an SCCM Console and assign them to SCCM client collections.

The following features are fee-based functions that are enabled with a valid product license of v3.0 or later:

Author Lenovo system configuration data:

Lenovo system configuration data is composed of Lenovo configuration items, Lenovo configuration Setting Collections, and Lenovo configuration settings. In this release, the Lenovo system configuration data scope is IMM/uEFI settings.

Support IMM/uEFI common settings:

Lenovo Configuration Pack Editor supports some common settings of IMM/uEFI that can help you author Lenovo system configuration setting.

Export Lenovo system configuration data to an Lenovo Configuration

Pack: Lenovo Configuration Pack contains configuration items and Setting Collections in a .cab file that are determined by DCM standards. Lenovo Configuration Pack can be imported into a DCM server.

Export Lenovo system configuration data to a configuration description: This feature provides the ability to share and edit configuration data exported to a configuration description XML file. The configuration description file can contain one or more Lenovo configuration items and Setting Collections.

Import Lenovo system configuration description: The configuration description XML file can be imported into Lenovo Configuration Pack Editor.

How Lenovo Configuration Pack for Microsoft System Center Configuration Manager supports Lenovo systems

Lenovo Configuration Pack for Microsoft System Center Configuration Manager provides you with the ability to check for IMM/uEFI settings on an Lenovo system. You can use the Lenovo Configuration Pack Editor to create settings for validation on an endpoint.

Lenovo configuration data is exported by Lenovo Configuration Pack Editor to a Configuration Pack (.cab) file. The .cab file is then imported to System Center Configuration Manager (SCCM), where it can be utilized by the Desired Configuration Management feature.

Administrators can assign configuration data to specific collections in SCCM. Configuration data includes Visual Basic Script, which invokes the ASU.exe tool to validate an endpoint's compliance.

Advanced Settings Utility (ASU)

You can use the Lenovo Advanced Settings Utility (ASU) to modify firmware settings from a command line on various operating-system platforms, such as Red Hat Enterprise Linux, Solaris Unix, Microsoft Windows, and WinPE.

ASU supports BIOS code, Remote Supervisor Adapter and Remote Supervisor Adapter II firmware, Baseboard Management Controller firmware, Integrated Management Module and more.

Configuration Pack configuration data does not include ASU.exe. To use Lenovo Configuration Pack for Microsoft System Center Configuration Manager with ASU (v3.60 or a later version) on an Lenovo system endpoint, complete these steps:

- Copy the ASU.exe file (for 32-bit OS) or ASU64.exe file (for 64-bit OS) located in the Lenovo_Support\ASU\ system directory folder. For example, C:\Lenovo Support\ASU\asu.exe and C:\Lenovo Support\ASU\asu64.exe.
- Manually record the location of ASU.exe in the registry by updating the Location string key to: HKEY_LOCAL_MACHINE\SOFTWARE\(Wow6432Node)\Lenovo\ ASU\.

For more information about ASU, see Advanced Settings Utility (ASU) for Lenovo x86 servers support portal.

Chapter 2. Installing the Lenovo Configuration Pack v6.0

The following procedure describes how to install the Configuration Pack.

Procedure

1. Double click the Lenovo Configuration Pack v6.0 installer (.exe file). The welcome page for Lenovo Configuration Pack opens.



Figure 1. InstallShield Wizard welcome page

2. Click Next to proceed to the License Agreement page.

😸 Lenovo Configuration Pack for Microsoft System Center 🗕 🗖 🗙					
Software License Agreement					
Please read the following license agreement carefully.					
If Licensee is obtaining the Program for purposes of productive use (other than					
evaluation, testing, trial "try or buy," or demonstration): By clicking on the					
License Agreement, without modification.					
If Licensee is obtaining the Program for the purpose of evaluation, testing, trial					
"try or buy," or demonstration (collectively, an "Evaluation"): By clicking on the					
"Accept" button below, Licensee accepts both (i) the IBM International License Agreement for Evaluation of Programs (the "Evaluation License") without					
Read Non-Lenovo Terms					
I accept both the Lenovo and the non-Lenovo terms.					
O I do not accept the terms in the license agreement. InstallShield					
Print < Back Next > Cancel					

Figure 2. Software License Agreement

- **3**. Click **I accept both the Lenovo and non- Lenovo terms** to accept the license agreement.
- 4. Click **Next**. If no product license is being activated, the Trial Version page opens; otherwise, the Destination Folder page opens.
- 5. On the Trial Version page, you can click **Contact Lenovo** to obtain a valid product license or click **Next** to proceed to the Destination Folder page.

😸 Lenovo Configuration Pack for Microsoft System Center Configura
Trial Version
License not detected
License is not found on this server.The trial period of this product lasts for 90 days. Contact Lenovo
InstallShield

Figure 3. Trial Version page

6. On the Destination Folder page, to change the Lenovo Configuration Pack installation directory, click **Change**.

🙀 Lenovo	Configuration Pack for Microsoft System Center Configura 🗴
Destinati Click Nex	ion Folder kt to install to this folder, or click Change to install to a different folder.
\triangleright	Install Lenovo Configuration Pack for Microsoft System Center Configuration Manager, v6.0 to:
	C:\Program Files (x86)\Lenovo\Lenovo Configuration Pack\
InstallShield -	
	< <u>B</u> ack <u>N</u> ext > Cancel

Figure 4. Destination Folder page

7. Click Next to proceed to the Ready To Install the Program page.

🖞 Lenovo Configuration Pack for Microsoft System Center Configura
Ready to Install the Program The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< <u>B</u> ack Install Cancel

Figure 5. Ready to Install the Program page

8. Click Install to start the installation process.

👸 Lenovo	Configuration Pack for Microsoft System Center – 🗖 🗴			
Installing Configura The prog	Lenovo Configuration Pack for Microsoft System Center ation Manager, v6.0 gram features you selected are being installed.			
P	Please wait while the InstallShield Wizard installs Lenovo Configuration Pack for Microsoft System Center Configuration Manager, v6.0. This may take several minutes.			
	Status:			
	Copying new files			
InstallShield -				
	< <u>B</u> ack <u>N</u> ext > Cancel			

Figure 6. Installation status page

9. Click **Finish** to complete the installation.



Figure 7. InstallShield Wizard Completed page

Uninstalling Lenovo Configuration Pack

There are four methods for uninstalling Lenovo Configuration Pack.

Procedure

- This is the recommended method. Start the Lenovo Configuration Pack installer program by double clicking on the (.exe file). Select the **Remove** option.
- Use the Add or Remove Programs option or for Microsoft Windows Server 2008, using the Programs and Features option.
- From the **Start** menu, select the uninstall shortcut.
- Refer to the *Lenovo XClarity Integrator Installer (see Lenovo XClarity Integrator Installer User's Guide* for more information about uninstalling using Lenovo XClarity Integrator Installer.

What to do next

If you authored configuration data, you will be notified whether the configuration data folder should be deleted during the uninstall process.

Chapter 3. Working with Lenovo Configuration Pack and Microsoft System Center Configuration Manager

The topics in this section describe how to use Lenovo Configuration Pack with Microsoft System Center Configuration Manager 2007 and Microsoft System Center Configuration Manager 2012.

Using Lenovo Configuration Pack with configuration data

Lenovo Configuration Pack for Microsoft System Center Configuration Manager v6.0 provides an easy way to author configuration data, which can be imported into the System Center Configuration Manager (SCCM) Desired Configuration Management (DCM) server. The SCCM DCM server assigns configuration data to its clients to evaluate whether the clients are in compliance or not.

About this task

The following procedure provides an overview of how to use Lenovo Configuration Pack with configuration data on the SCCM DCM server.

Procedure

- Create configuration data that you want to evaluate. You can create configuration data using one of the following methods:
 - Create configuration data using Lenovo Configuration Pack Editor.
 For more information, see "Creating a Setting Collection" on page 12 and "Creating a configuration item" on page 24.
 - Capture configuration data from an Lenovo server that has an Integrated Management Module, a uEFI module, or a uEFI (Romley Platform) module.
 For more information, see "Running Lenovo Configuration Capture" on page 88.
- Export the created configuration data to the SCCM DCM server.

For more information, see "Exporting configuration items to the Lenovo Configuration Pack CAB file" on page 42 and "Importing configuration data into DCM" on page 48.

• Assign and evaluate configuration data on the SCCM client.

For more information, see "Assigning a baseline to a collection" on page 60 and "Evaluating a baseline on an endpoint" on page 62.

Launching Lenovo Configuration Pack Editor

Lenovo Configuration Pack Editor helps you create and manage configuration data that you can export for use in Desired Configuration Management.

Before you begin

A product license is required to launch Lenovo Configuration Pack Editor. If you need to activate a product license, after launching Lenovo Configuration Pack Editor, complete step 2.

Procedure

1. From the **Start** menu, click the Lenovo Configuration Pack Editor shortcut to launch Lenovo Configuration Pack Editor.

If the trial license expired and a product license has not been activated on the Lenovo System Configuration Server, a window opens to remind you to activate the product license.

	Lenovo Configuration Pack - License Entitlement
lenovo	License Validation Result:
	License Type: N/A Support Feature Level: N/A The fee-feature which need higher license can still be used as trial for 90 days.
	If you have obtained a new license, re-activate it using the license registration tool on this server and then restart this application For license information, click the link below. Purchase Lenovo XClarity Integrator License
	ОК

Figure 8. No License found

- 2. Optional: Select one of the following actions to proceed.
 - Click **OK** to activate the product license using the license tool and then restart Lenovo Configuration Pack Editor.
 - Click **Purchase Lenovo XClarity Integrator License**. After purchasing the product license, activate the product license using the license tool, and then restart Lenovo Configuration Pack Editor.
- **3**. Optional: If this is your first time using Lenovo Configuration Pack Editor, read the "Getting Started" section and then click **Create Setting Collection** to create a firmware setting collection before grouping the Setting Collections into configuration items.



Figure 9. Lenovo Configuration Pack Editor home page

The Lenovo Configuration Pack Editor home page contains the following items:

Home navigation pane

The navigation pane provides a list of Setting Collections nodes and Configuration Items nodes.

From the navigation pane, you can select a Setting Collection or a Configuration Item, view it in the application window or right-click the selection, and perform the functions listed below.

Lenovo Configuration Pack Editor application window

The application window provides three functional areas:

Setting Collections

Create Setting Collection

View Setting Collection

Configuration Items

Create Configuration Item

View Configuration Item

Export to Configuration Pack

Export to Configuration Pack for SCCM 2007

Export to Configuration Pack for SCCM 2012

Setting Collection

A Setting Collection represents a desired object, setting, or value on a server. You can create, view, or modify a Setting Collection.

The Setting Collection pane of the Lenovo Configuration Pack Editor home page has two options:

- Create Setting Collection opens the Lenovo Configuration Pack Editor wizard and can assist you with creating a IMM/uEFI Setting Collection.
- View Setting Collection displays the Setting Collection list, where you can select, view, modify, and delete an existing Setting Collection.

Creating a Setting Collection

The following procedure describes how to create a Setting Collection.

Procedure

- 1. From the Lenovo Configuration Pack Editor home page, click **Create Setting Collection**. The Lenovo Configuration Pack Editor wizard opens to guide you through creating a Setting Collection.
- 2. Enter a **Name** and **Description** for the new setting collection and click **Next**. A name is required, but a description is optional.

Lenovo Configuration Pack Editor - Create Setting Collection	on
eneral Information ter a name and (optional) description for your new Setting Collection and click "Next" to ntinue.	lenova Step 1/3
Name:	
Description:	
	^
	~
r Back Not > Finish	Cancel

Figure 10. General Information page

3. From the **Setting Type** list, select a setting type for the new Setting Collection. The setting type cannot be modified after it has been created.

Lenovo Configuration Pack Editor - Create Setting Collection	x
Setting Collection Information Select a setting type and then click "Next".	lenovo Step 2/3
Setting Type: MM UEFI UEFI(Romley Platform)	
< Back Next > Finish	Cancel

Figure 11. Setting Collection Information page

4. Click Next. The Property Thresholds page opens.

Б Le	enovo Configura	tion Pack Editor -	Create Sett	ting Collection	×
Property Thres Click "Add" to add prop property. Then click "Fi	sholds perties, "Modify" to m nish".	nodify properties, or "	Remove" to re	emove a	Step 3/3
Add	Modify	Remove			
Property Name	Comparator	Expected Value	Severity	Remediation State	Remediatic
<	Ш				>
		< Back	Next >	Finish	Cancel

Figure 12. Property Thresholds page

5. Click Add to add a new property threshold. The Setting Editor page opens.

5	Lenovo Configuration Pack Editor - Setting Editor	x	
Select the property that yo property, type it in the Prop	wish to monitor for compliance. If the property list does not include the desired erty Name field.		
Property Name:	BootModes.SystemBootMode		
Description:	Controls which drivers option ROMs the Boot Manager uses; UEFI Only: UEFI- aware adapters boot loaders; Legacy Only: skips UEFI-aware drivers, runs option ROMs to boot a legacy OS; Both: boots UEFI mode if that fails, then tries legacy boot	~	
Comparator:	Equals Value: UEFI and Legacy	¥	
Severity:	Information 🗸		
	Remediate noncompliant IMM/UEFI setting values on client automatically. The remediation action may be failed if the target setting is readonly.		
Expected Value:	UEFI and Legacy		
When the property "BootModes.SystemBootMode" "Equals" "UEFI and Legacy", the property is compliant on the endpoint. Otherwise, the property is non-compliant and returns a severity of "Information".			
	OK Cancel Apply		

Figure 13. Setting Editor page

- 6. Complete the following fields:
 - **Property Name**: Select a specific IMM, uEFI, or uEFI (Romley Platform) setting, depending on the previous selection for the **Setting Type** on the Selecting Collection Information page.
 - **Comparator**: Each property name in the list has an associated return type, such as: String, Integer, Version and Data Time, which requires that you select a comparator from the items shown in the following table:

Table 1. Comparators by return type

Return Type	Comparator	Description
String	Equals	If the evaluation property equals the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Not Equals	If the evaluation property does not equal the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Contains	If the evaluation property contains the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	One Of	If the evaluation property is one of the values listed for Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.

Return Type	Comparator	Description
Integer	Equals	If the evaluation property equals the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Not Equals	If the evaluation property does not equal the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Less	If the evaluation property is less than the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Less or Equals	If the evaluation property is less than or equal to the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Greater	If the evaluation property is greater than the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Greater or Equals	If the evaluation property is greater than or equal to the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.

Table 1. Comparators by return type (continued)

Return Type	Comparator	Description
Version	Equals	If the evaluation property equals the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Not Equals	If the evaluation property does not equal the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Less	If the evaluation property is less than the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Less or Equals	If the evaluation property is less than or equal to the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Greater	If the evaluation property is greater than the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Greater or Equals	If the evaluation property is greater than or equal to the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.

Table 1. Comparators by return type (continued)

Return Type	Comparator	Description
Data Time	Equals	If the evaluation property equals the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Not Equals	If the evaluation property does not equal the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Less	If the evaluation property is less than the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Less or Equals	If the evaluation property is less than or equal to the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Greater	If the evaluation property is greater than the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.
	Greater or Equals	If the evaluation property is greater than or equal to the Expected Value, the property is compliant on the endpoint. Otherwise, the property is noncompliant.

Table 1. Comparators by return type (continued)

- Severity: Select one of three levels:
 - Information
 - Warning
 - Error

When a Setting is noncompliant with the expected value on the endpoint, the Setting returns the selected severity level.

As you define the settings, the Selection Summary automatically fills the corresponding **property**, **value**, **comparator**, and **severity** fields.

Note: You can type a property that does not exist in the property support list, but Lenovo Configuration Pack Editor assumes that the property is a String return type, which means that the Comparator will only list Equals, Not Equals, Contains, and One Of. You must still type an expected value for the property.

In addition, you can set duplicate settings in the Setting Collection.

7. Click Add when you are finished adding the new property threshold.

🚡 Ler	novo Configura	tion Pack Editor - (Create Setti	ing Collection	x
Property Thresh	holds			le	enovo
Click "Add" to add prope property. Then click "Fini	rties, "Modify" to m ish".	odify properties, or "R	emove" to rer	move a	Step 3/3
Add	Modify	Remove			
Property Name	Comparator	Expected Value	Severity	Remediation State	Remediatic
IMM.BasicAdapter	Equals	Yes	Warning	No	
IMM.HTTPPort	Less or Equals	80	Informati	No	
IMM.HTTPPort	Less	80	Error	No	
IMM.RemotePower	Equals	Yes	Informati	No	
<					>
		< Back	Next >	Finish	Cancel
		Laon	1.000		0 411001

Figure 14. Property Thresholds page

- 8. Optional: To modify a setting, either select the setting name and click **Modify** or double-click the setting name and click **Modify**.
- 9. Optional: To delete a setting, select one or more settings, and click **Remove**.

Viewing a Setting Collection

The following procedure describes how to view a Setting Collection.

Procedure

• Click **View Setting Collection** on the home page. The Setting Collections list is displayed.

File Import Export Help Import Export Help Setting Collections Import Export Herms Configuration Items A Configuration Items A Configuration Item is a grouping of Setting Collections. Click "New Configuration Item" to create a new Configuration Item. New Configuration Items New Configuration Item Vertification Items New Configuration Item Name Description Configuration Items Configuration Items Name Configuration Items Configuration Items Sample Lenovo Configuration Items Description Configuration Items Configuration Items	5	Lenovo Configuration Pack Editor
Image: Setting Collections Configuration Items Configuration Items Configuration Items Configuration Items Description	File Import Export Help	
	Home Setting Collections MM Settings Collection Getf Settings Collection Configuration Items Configuration Items Lenovo Configuration Items	Configuration Items Aconfiguration Item is a grouping of Setting Collections. Click "New Configuration Item" to create a new Configuration Item. New Configuration Item Delete Name Description Configuration Items Sample Lenovo Configuration Items

Figure 15. Setting Collections list

• Click on the name of a Setting Collection to view its properties.

5	Lenovo Configuration Pack Editor	_ D X
File Import Export Help		
Home Setting Collections ULFI Settings Collection Configuration Items Configuration Items Sample Lenovo Configuration Items	Setting Collections A Setting Collection represents a desired object, setting, or value on a server. New Setting Collection Delete Name Setting Type Description IMM Settings IMM Lenovo IMM Settings Description uEFI Settings Collection UEFI Lenovo uEFI Settings Description	-
	Details for: IMM Settings General Property Thresholds Modify Name: Name: IMM Settings Setting Type: IMM Description: Lenovo IMM Settings Description	<

Figure 16. Setting Collection properties

• To delete Setting Collections, select one or more items in the list and either click **Delete** or press the **Delete** key.

Modifying a Setting Collection

The following procedure describes how to modify a Setting Collection.

Procedure

1. On the **General** tab on the Setting Collections page, click **Modify**. The General Information page opens.

Lenovo Configuration Pack Editor - General Information
Name:
IMM Settings
Description:
Lenovo IMM Settings Description
OK Cancel Apply

Figure 17. General Information page

- 2. Edit the **Name** and **Description** fields for the Setting Collection, click **Apply** and then **OK** to save the changes. The collection **Name** and **Description** can be modified, but the **Setting Type** cannot be modified.
- **3**. Click the **Property Thresholds** tab to display a list of the existing property thresholds.

8	Leno	vo Configurat	ion Pack Edit	tor			x I
File Import Export Help							
Home MM Setting Collections MM Settings UEFI Settings Collection Configuration Items Configuration Items Sample	Setting Collections A Setting Collection represents a desired object, setting, or value on a server. New Setting Collection Delete Name Setting Type						
Lenovo Configuration Items	IMM Settings	UN IN	1M	Lenovo IMM Setting	s Description		
	UEFI Settings Collection UEFI Lenovo uEFI Settings Decription Details for: IMM Settings General Property Thresholds Add Modify						
	Property Name	Comparator	Expected Va	lue Severity	Remediation State	Remediation Value	Des
	IMM.BasicAdapter	Equals	Yes	Warning	No		Mod
	IMM.HTTPPort	Less or Equals	80	Informati	No		Con
	IMM.HTTPPort	Less	80	Error	No		Con
	IMM.RemotePower	Equals	Yes	Informati	No		Mod

Figure 18. Property Thresholds tab

- 4. Select the applicable editing option.
 - To add settings to the property thresholds, click **Add**.
 - To edit a selected property threshold, click **Modify**.
 - To delete selected property thresholds, click **Remove**.

Note: When a Setting Collection that is also used in another configuration item is deleted, it is removed from all other configuration items.

Duplicating a Setting Collection

The following procedure describes how to duplicate a Setting Collection.

Procedure

1. From the navigation pane or from the Setting Collection list, right-click a Setting Collection and click **Duplicate**.
| 3 | Lenovo Configuration Pack Editor | x |
|---|---|---------------------------------|
| File Import Export Help | | |
| Home Mome More MMS Settings MIM Settings UEFI Settings Collection Configuration items Configuration items Sample Lenovo Configuration items | Setting Collections A Setting Collection represents a desired object, setting, or value on a server. New Setting Collection Delete Name Setting Type Description IMM Settings IMM Lemmon IMM Settings Description uEFI Settings Collection UEFI Duplicate gs Decription Delete | |
| | Details for: IMM Settings General Property Thresholds Add Modify Property Name Comparator Expected Value Severity Remediation State Remediation Value IMM.Backdapter Equals Yes Warning IMM.HTTPPort Less or Equals IMM.HTTPPort Less 80 Error IMM.RemotePower Equals Yes Informati | Des
Mod
Con
Con
Mod |

Figure 19. Duplicate Setting Collection function

2. In the Duplication Dialog window, enter the **New Name** for the duplicate Setting Collection and click **OK**.

Б	Lenovo Co	onfiguration Pa	ck Editor - Duplication	n Dialog	x
	New Name:	IMM Settings			
			ОК	Cancel	

Figure 20. Duplication Dialog window

Note: The name of the duplicate Setting Collection can be the same name as an existing Setting Collection. However, it is recommended that you use a unique name for the duplicate Setting Collection. Also, if you duplicate a Setting Collection that is used by other configuration items, the new duplicate Setting Collection that is created will not be referred to by the other configuration items.

Configuration Item

A configuration item is a grouping of Setting Collections defined and managed by Lenovo Configuration Pack for Microsoft System Center Configuration Manager. You can create, view, or modify a configuration item.

The Configuration Item pane of the Lenovo Configuration Pack Editor home page has two options:

• **Create Configuration Item** opens the Lenovo Configuration Pack Editor wizard and can assist you with creating a configuration item.

• View Configuration Item displays the configuration item list, where you can select and view an existing configuration item.

Creating a configuration item

The following procedure describes how to create a configuration item.

Procedure

1. From the Lenovo Configuration Pack Editor home page, click **Create configuration item**. The Lenovo Configuration Pack Editor wizard opens to guide you through creating a configuration item.

Lenovo Configuration Pack Editor - Create Configuration Item	x
General Information Enter a name and (optional) description for your new Configuration Item and click "Next" to continue.	lenovo . Step 1/3
Name: Lenovo Configuration Item	
Description:	
Include Setting Collections: Lenovo IMM Settings uEFI Setting Collection for Web Site	~
< Back Next ≻ Finish	Cancel

Figure 21. General Information page

2. Enter a **Name** and **Description** for the new configuration item and click **Next**. A name is required, but a description is optional. The IMM Information page opens.

Lenovo Configuratio	n Pack Editor - Create Configuration Item	n ×
IMM Information Enter the user ID and password, and specify Click "Next" to continue.	the location of the asu.exe file on the endpoint.	lenovo Step 2/3
Specify the location of the asu.exe file o	n the endpoint	
C:\Lenovo\ASU\Win32\asu.exe		
	< Back Next > Finish	Cancel

Figure 22. IMM Information page

- **3**. Enter a **UserID** and **Password** and then **Confirm the Password** for the IMM on the target server. The UserID and Password are not required if the default account is used on the target IMM. Lenovo Configuration Pack Editor does not check the accuracy of the information entered in the **UserID** and **Password** fields.
- 4. In the **Specify the location of the ASU.exe file on endpoint** field, enter an absolute path to the ASU.exe file on the target server. The collection's settings use this path to invoke the ASU.exe file to detect the settings. If you do not type the correct path, it is unable to detect the ASU.exe file as shown in the following figure.



Figure 23. Asu.exe detection notification window

- 5. Optional: To exit the Notification window, click OK.
- 6. Click Next. The Configuration Items page opens.

Б	Lenovo Config	uration Pack Ec	litor - Create Conf	iguration Item	x
Setting Colle	ections				lenovo
Add Setting Collect	ions that you wish	to include in this (Configuration Item.		Step 3/3
Add	Remove]			
Name		Setting Type	Description		
4			10		
		< Back	Next >	Finish	Cancel

Figure 24. Configuration Items page

7. Click **Add** to add existing Setting Collections into the configuration item. The Add Setting Collections page opens.

Lenovo Configuration Pack Editor - Add Setting Collections			
	Add Sett	ing Collections	
Select Setting Collections that yo	u wish to add to th	is Configuration Item.	
Name	Setting Type	Description	
IMM Settings	IMM	Lenovo IMM Settings Description	
☑ uEFI Settings Collection	UEFI	Lenovo uEFI Settings Decription	
🖌 SelectAll		OK Cancel	Apply

Figure 25. Add Setting Collections page

8. Select the Setting Collections you want to add to the configuration item and click **OK**. A Setting Collection can be used in multiple configuration items.

Lenovo Configu	uration Pack Ed	litor - Create Configuration Item	x
Setting Collections Add Setting Collections that you wish	to include in this (Configuration Item.	lenovo . Step 3/3
Add Remove			
Name	Setting Type	Description	
IMM Settings	IMM	Lenovo IMM Settings Description	
uEFI Settings Collection	UEFI	Lenovo uEFI Settings Decription	
<			>
	< Back	Next > Finish	Cancel

Figure 26. Add Setting Collections list

- **9**. To remove any of the Setting Collections from a configuration item, select one or more Setting Collections in the list and click **Remove**. The **Remove** function deletes the selected Setting Collections from the current configuration item, but it does not delete Setting Collections from this list.
- 10. Click Finish.

Viewing a configuration item

The following procedure describes how to view configuration items.

Procedure

• Click **View configuration item** on the home page. The Configuration Items list is displayed.

В	Lenovo Configuration Pack Editor	x c
File Import Export Help		
File Import Export Help Home Setting Collections IMM Settings Configuration Items Configuration Items Sample Lenovo Configuration Items	Configuration Items A Configuration Item is a grouping of Setting Collections. Click "New Configuration [tem" to create a new Configuration New Configuration [tem Delete Name Description Configuration Items Sample Lenovo Configuration Items	ltem.

Figure 27. Configuration Items list

• Click on the name of a Configuration Item to view its properties.

3	Lenovo Configuration Pack Editor
File Import Export Help	
Home Setting Collections Guffi Settings Collection Configuration Items Configuration Items Sample Lenovo Configuration Items	Configuration Items A Configuration Item is a grouping of Setting Collections. Click "New Configuration Item" to create a new Configuration Item. New Configuration Item Delete Name Description Configuration Items Sample Configuration Items Description Lenovo Configuration Items Configuration Items
	General Setting Collections Modify Name: Configuration Items Sample
	Description: Configuration Items Description

Figure 28. Configuration item properties

Modifying a configuration item

The following procedure describes how to modify a configuration item.

Procedure

1. On the **General** tab on the Configurations Items page, click **Modify**. The General Information page opens.

Lenovo Configuration Pack Editor - General Information
Name:
Configuration Items Sample
Description:
Configuration Items Description
Edit Configuration Items
OK Cancel Apply

Figure 29. Configuration Pack Editor - General Information page

- 2. Edit the **Name** and **Description** fields for the configuration item, click **Apply** and then **OK** to save the changes.
- 3. Click the IMM Account tab to display the IMM Account information.

Б	Lenovo Configuration Pack Editor
File Import Export Help	
File Import Export Help Home Setting Collections UEFI Settings Collection Configuration Items Configuration Items Lenovo Configuration Items	Configuration Items A Configuration Item is a grouping of Setting Collections. Click "New Configuration Item" to create a new Configuration Item. New Configuration Item Delete Name Description Configuration Items Sample Configuration Items Description Lenovo Configuration Items Configuration Items Sample Details for: Configuration Items Sample General Setting Collections Modify Name: Configuration Items Sample Configuration Items Sample
	Edit Configuration Items

Figure 30. IMM Account tab

4. Click **Modify** to enter a new **UserID** or **Password** for the IMM on the target server.

Note: Lenovo Configuration Pack Editor does not check the accuracy of the **UserID** and **Password** fields. It is recommended that you use the default account to eliminate any errors.

5. In the **Specify the location of the ASU.exe file on endpoint** field, enter an absolute path to the ASU.exe file on the target server. The collection's settings will use this path to invoke the ASU.exe file to detect the settings. If you do not type the correct path, the setting attempts to detect the ASU.exe file as specified in the window shown in the figure below.

3	Lenovo Configuration Pack Editor - Create Configuration Item
IMM Inform Enter the user ID a	ation lenovo. and password, and specify the location of the asu.exe file on the endpoint. Stop 2/3
Click "Nex"	Lenovo Configuration Pack Editor - Notification
	The Configuration Item will search for asu.exe (v3.60 or above) on the endpoint. Ensure that at least one of these conditions is met for validation, or the Configuration Item will return as "Not Detected".
	1. The asu.exe path is defined in the Location field.
	2. Asu.exe is located at %SystemPartition%\Lenovo_Support\ASU\asu64.exe (for 64-bit OS) or %SystemPartition%\Lenovo_Support\ASU\asu.exe (for 32-bit OS).
Speci	3. The location is defined in the registry key as follows: HKEY_LOCAL_MACHINE\Software\Lenovo\ASU\Location (for 32-bit OS) or HKEY_LOCAL_MACHINE\Software\Wow6432Node\Lenovo\ASU\Location (for 64-bit OS).
	ОК
	< Back Next > Finish Cancel

Figure 31. Asu.exe detection notification window

- 6. Optional: To exit the Notification window, click OK.
- 7. Click the Setting Collections tab.

ā	Lenovo Configuration Pack Editor
File Import Export Help	
Home Setting Collections IMM Settings UEFI Settings Collection Configuration items Configuration items Lenovo Configuration items	Configuration Items A Configuration Item is a grouping of Setting Collections. Click "New Configuration Item" to create a new Configuration Item. New Configuration Item Delete Name Description Configuration Items Sample Configuration Items Description Lenovo Configuration Items Eleter
	Details for: Lenovo Configuration Items General Setting Collections Add Remove
	Name Setting Type Description
	IMM Settings IMM Lenovo IMM Settings Description

Figure 32. Setting Collections tab

8. Click Add to add existing Setting Collections into the configuration item. The Add Setting Collections page opens.

Lenovo Configuration Pack Editor - Add Setting Collections					
Add Setting Collections					
Select Setting Collections that you	u wish to add to th	is Configuration Item.			
Name	Setting Type	Description			
✓ IMM Settings □ Lenovo IMM Settings	IMM IMM	Lenovo IMM Settings Description			
✓ uEFI Settings Collection	UEFI	Lenovo uEFI Settings Decription			
SelectAll OK Cancel Apply					

Figure 33. Add Setting Collections selection page

9. Select the Setting Collections you want to add to the configuration item and click **OK**.

Note: A Setting Collection can be used for more than one configuration item.

10. To remove Setting Collections from a configuration item, select one or more Setting Collections in the list view, and click **Remove**.

Note: If you click **Remove**, the selected Setting Collections will be deleted from the current configuration item, but it will not delete the Setting Collections from other configuration items.

Duplicating a Configuration Item

The following procedure describes how to duplicate a configuration item.

Procedure

1. From the navigation pane or from the configuration item list, right-click a configuration item and click **Duplicate**.

Б.	Lenovo Configuration Pack Editor
File Import Export Help	
Gonfiguration Items Configuration Items Lenovo Configuration Items	Configuration Items A Configuration Item is a grouping of Setting Collections. Click "New Configuration Item" to create a new Configuration Item. New Configuration Item Delete Name Description Configuration Items Sample Configuration Items Description Configuration Items Duplicate Delete Delete
	Details for: Lenovo Configuration Items General Setting Collections Add Remove
	Name Setting Type Description
	IMM Settings IMM Lenovo IMM Settings Description
	uEFI Settings Collection UEFI Lenovo uEFI Settings Decription

Figure 34. Duplicate Configuration Item function

The Duplication Dialog window is displayed.

В	Lenovo Configuration Pack Editor - Duplication Dialog				
	New Name: Lenovo Configuration Items				
	OK Ca	ncel			

Figure 35. Duplication Dialog window

2. In the Duplication Dialog window, enter the **New Name** of the configuration item and click **OK**. Although the name of the duplicate configuration item can be the same as an existing configuration item, it is recommended that you use a unique name.

Note: After you duplicate a configuration item, the new duplicate configuration item will refer to the same Setting Collection of the source configuration item.

Deleting a configuration item

The following procedure describes how to delete a configuration item.

Procedure

- 1. From the navigation pane or from the configuration item list, right-click a configuration item, and click **Delete**. The Deletion Dialog window is displayed.
- 2. Click **OK** to continue with the deletion of the configuration item or click **Cancel** to exit this operation.

Note: The child Setting Collections of a deleted configuration item are not deleted.

Exporting configuration data to a configuration description file

To enable administrators to author and share configuration data, you can export configuration items and their children, Setting Collections, into a configuration description XML file.

Procedure

 From the Lenovo Configuration Pack Editor menu, click Export > To Configuration File.

		Lenovo Configur	ation Pack Edit	tor	- 🗆 X
File Import Export H	lelp				
→ Home Settine Export Configuration Item Configuration Item Configuration Item Configuration Item	nfiguration File Ito Configuration Pack F Ito SCOM Console S ems Sample Iration Items	Consecting 2007 terms a grouping of tion Item Name Configuration Items Sample Lenovo Configuration Items	Setting Collection	ns. Click "New Configuration (term" to create a new Con Description Configuration Items Description Edit Configuratio	figuration Item.
		General Setting Collections Add Remove Name IMM Settings uEFI Settings Collection	Setting Type IMM UEFI	Description Lenovo IMM Settings Description Lenovo uEFI Settings Decription	

Figure 36. Exporting configuration data to configuration file

The Export to Configuration Item(.xml) page opens.

Lenovo Configuration Pack Editor - Export to Configuration Description (.xml)					
Select the Configuration Item or items that you wish to export to an XML file. You can then import the XML file into the Lenovo Configuration Pack Editor.					
Name	Description				
 ✓ Configuration Items Sample ✓ Lenovo Configuration Items 	Configuration Items DescriptionEdit Configuration I				
✓ SelectAll	Continue				

Figure 37. Export to Configuration Description (.xml) page

2. Select the configuration items you want to export and click **Continue**. The Export configuration description file Save as window opens.

Export to configuration description X						
() () () () () () () () () () () () () ((a) (b) ∀ ↑ (b) + Libraries → Documents → ↓ ♥ ♥ Search Documents ♀					
Organize 👻 New fo	older			III 🕶 🔞		
🔆 Favorites	^	Name	Date modified	Туре		
🛄 Desktop		길 Integration Services Script Component	2/26/2013 7:02 AM	File folder		
🐌 Downloads		퉬 Integration Services Script Task	2/26/2013 7:02 AM	File folder		
📃 Recent places	_	퉬 SQL Server Management Studio	2/26/2013 7:02 AM	File folder		
	=	퉬 Visual Studio 2005	2/26/2013 6:53 AM	File folder		
🥽 Libraries		퉬 Visual Studio 2008	2/26/2013 6:57 AM	File folder		
Documents 📄						
🎝 Music						
📔 Pictures						
🛃 Videos						
🚚 Computer	~	< 111		>		
File <u>n</u> ame:	config	uration		~		
Save as <u>t</u> ype: 0	Config	uration Description (*.xml)		~		
) Hide Folders			Save	Cancel		

Figure 38. Export configuration description file Save as window

3. Enter a name in the **File name** field and select a file type from the **Save as type** list and then click **Save**. The child Setting Collections of the selected configuration items are also exported automatically. A message is displayed indicating the export was successful.

Lenovo Co	onfiguration Pack	c Editor - Export to Configuration Description (.xml)
Select the Configurat into the Lenovo Confi	ion Item or items tha guration Pack Editor	at you wish to export to an XML file. You can then import the XML file r.
Name		Description
 Configuration Iter Lenovo Configura 	ns Sample ation Items	Configuration Items DescriptionEdit Configuration I
	Lenovo Config	guration Pack Editor - Information
		ОК
✓ SelectAll		Continue Cancel

Figure 39. Export Succeeded message

4. Click OK.

Importing the configuration description XML file

The following procedure describes how to import the configuration description XML file.

Procedure

1. From the Lenovo Configuration Pack Editor menu, click **Import** > **Configuration File**.

Ъ	Lenovo Configuration Pack Editor	_ _ X
File Import Export Help Configuration File Setting Collections MM Settings	Configuration Items A Configuration Item is a grouping of Setting Collections. Click "New Configuration Item" t	io create a new Configuration Item.
 	New Configuration [tem Delete Name Description Configuration (temp Sample Configuration (temp Sample)	Edit Configuratio
Lenovo Configuration Items	Configuration items Sample Configuration items Description Lenovo Configuration items Details for: Configuration items Sample General Setting Collections	Eait configuratio
	Add Remove	
	Name Setting Type Description	
	IMM Settings IMM Lenovo IMM Settings Description	1
	uEFI Settings Collection UEFI Lenovo uEFI Settings Decription	

Figure 40. Import Configuration File menu

The Import a Configuration XML file window opens.

Lenovo Configuration Pack Editor - Import a Configuration XML file					
🔄 🐵 ∞ ↑ 📑 ► Lib	raries 🕨 Documents 🕨 🗸 🗸	Search Documents	Q		
Organize 👻 New folder		8==	• 🔟 🔞		
🔶 Favorites	Name	Date modified	Туре		
📰 Desktop	\mu Integration Services Script Component	2/26/2013 7:02 AM	File folder		
〕 Downloads	🌗 Integration Services Script Task	2/26/2013 7:02 AM	File folder		
📃 Recent places	📙 SQL Server Management Studio	2/26/2013 7:02 AM	File folder		
	🌗 Visual Studio 2005	2/26/2013 6:53 AM	File folder		
🥽 Libraries 🛛 🔳	🌗 Visual Studio 2008	2/26/2013 6:57 AM	File folder		
Documents	Configuration	9/23/2014 4:07 AM	XML File		
🌙 Music					
📔 Pictures					
🚼 Videos					
👰 Computer					
📥 Local Disk (C:)					
DVD Drive (D:) SC	<		>		
File <u>n</u> a	ime: 🗸 🗸	Configuration XML	(*.xml) 🗸		
		Open	Cancel		

Figure 41. Import a Configuration XML file window

2. Select a configuration description XML (.xml) file to import and click **OK**. The Confirm Replace window opens.

占 Len	ovo Configuration Pack Editor - Confirm Repla	x			
i	There is already a Setting Collection with the same ID in this editor.				
Would you like to replace the existing Setting Collection					
	"IMM Settings"				
	modified: 9/22/2014 9:50:48 AM				
	with this one?				
	"IMM Settings"				
	modified: 9/22/2014 9:50:48 AM				
	Yes <u>A</u> ll No Cancel				

Figure 42. Confirm Replace Setting Collection window

In the Lenovo Configuration Pack Editor program, every Setting Collection and configuration item has a unique identifier (ID). When the same ID has been used, even if the names are different, the Confirm Replace Setting Collection window opens, asking you to confirm that you want to replace the existing configuration data.

Note: If you import a Setting Collection that has the same ID as an existing Setting Collection in the configuration item, the imported Setting Collection will replace the existing Setting Collection. The configuration item will refer to the imported Setting Collection regardless of whether its content is the same as the content of the previous Setting Collection.

Checking the license validation status

The following procedure describes how to check the license validation status.

Procedure

1. From the Lenovo Configuration Pack Editor menu, click Help > License.

3	Lenovo Configur	ation Pack Edi	itor	_ D X
File Import Export Help File Import About Import Import About Setting Collectic License Infiguration Items Import Items Environme About Import Setting Collection Infiguration Items Environme MM Settings Web Reference Import Items Import Item Environme Environme New Configuration Item Delete Configuration Items Sample Name Description Configuration Items Description Configuration Items Configuration Items Sample Configuration Items Configuration Items Configuration Items Description				
	Details for: Configur General Setting Collections Add Remove Name INN Settings	ation Items Samp Setting Type	ple Description Lescis MM Colling Description	
	uEFI Settings Collection	UEFI	Lenovo uEFI Settings Decription	

Figure 43. License menu option

The License Entitlement window opens indicating the license validation result.

	Lenovo Configuration Pack - License Entitlement	x
lenovo	License Validation Result: Installed	
	License Type: Lenovo XClarity Integrator License for Microsoft System Center Support Feature Level: 255.0 The feefeature which need higher license can still be used as trial for 90 days.	< ×
	If you have obtained a new license, re-activate it using the license registration tool on this serve and then restart this application	er –
	Purchase Lenovo XClarity Integrator License	
	ОК	

Figure 44. License Entitlement window

- 2. Review the information and click **OK** to exit this page.
- **3**. Optional: Click **Purchase Lenovo XClarity Integrator License** to view additional license information.

The Lenovo Configuration Pack CAB file

You can use Lenovo Configuration Pack Editor to export configuration items by saving them as a CAB (.cab) file. The CAB file can then be imported to an SCCM server. The configuration items can also be deployed to SCCM clients to check the IMM/uEFI settings.

The following list provides an overview of how the CAB file is created, imported, and deployed.

• Using Lenovo Configuration Pack Editor, export configuration items to an Lenovo Configuration Pack CAB file.

The Export function allows you to export multiple configuration items and their children, known as Setting Collections.

- The Export to Lenovo Configuration Pack GUI configuration items list with selection boxes is composed of the exported configuration item and Lenovo Configuration Pack CAB file link.
- The Lenovo Configuration Pack CAB file can then be imported to an SCCM console as a DCM Configuration Pack.

Exporting configuration items to the Lenovo Configuration Pack CAB file

The following procedure describe how to export the Lenovo Configuration Pack CAB file.

Procedure

 From the Lenovo Configuration Pack Editor menu, click Export > Export Configuration item to Configuration for SCCM 2007 or Export Configuration item to Configuration for SCCM 2012, whichever is applicable.

The Export to Lenovo Configuration Pack page opens and provides a list of configuration items, their version number, and a brief description.

3 Export t	o Configura	tion Pack For SCCM 2012	x		
Select the Configuration Item or items that you wish to export to a CAB file. You can then import the CAB file into the SCCM Console as a DCM Configuration Pack.					
Notice:The Configuration Pack can on	ly be imported	by SCCM2012 if any property 's auto-remediation is on.			
Name	Version	Description	٦		
 ✓ Configuration Items Sample ✓ Lenovo Configuration Items 	1	Configuration Items DescriptionEdit Configuration I			
SelectAll		Continue Cancel			

Figure 45. Export to Lenovo Configuration Pack for SCCM 2007 page

2. Select the individual configuration items that you want to export or click **Select All**, and then click **Continue**.

Note: The version of a configuration item is an internal variable that cannot be modified directly. SCCM DCM uses the version to evaluate whether a configuration item should be updated. When configuration data is updated in Configuration Manager, previous versions are overwritten, providing clients with the latest version for evaluation.

The Export to Lenovo Configuration Pack file window opens.

Export to Configuration Pack For SCCM 2012 X					
(a) (b) ✓ ↑ (b) Libraries ➤ Documents ➤ ✓ C) Search Documents					
Organize 👻 New fo	older			III 🕶 🔞	
🔆 Favorites	^	Name	Date modified	Туре	
🛄 Desktop		퉬 Integration Services Script Component	2/26/2013 7:02 AM	File folder	
鷆 Downloads		퉬 Integration Services Script Task	2/26/2013 7:02 AM	File folder	
📃 Recent places	_	퉬 SQL Server Management Studio	2/26/2013 7:02 AM	File folder	
	=	🌗 Visual Studio 2005	2/26/2013 6:53 AM	File folder	
🥽 Libraries		🌗 Visual Studio 2008	2/26/2013 6:57 AM	File folder	
📄 Documents		🔠 configuration	9/23/2014 7:33 AM	Cabinet File	
🌙 Music					
📔 Pictures					
🛃 Videos					
🛤 Computer	$\mathbf{\mathbf{v}}$	< 111		>	
File <u>n</u> ame:	config	juration		~	
Save as <u>t</u> ype: 0	Config	juration Pack for SCCM2012(*.cab)		~	
🔿 Hide Folders			Save	Cancel	

Figure 46. Export to Lenovo Configuration Pack for SCCM 2012 window

3. Enter the **File name** and click **Save**. A message is displayed indicating that the export succeeded.

3	Export to Configuration Pack For SCCM 2012	x		
Select the Configuration into the SCCM Console Notice:The Configuration	in Item or items that you wish to export to a CAB file. You can then import the CAB file e as a DCM Configuration Pack. on Pack can only be imported by SCCM2012 if any property 's auto-remediation is on.			
Name ✓ Configuration Item ✓ Lenovo Configura	Version Description In Item Lenovo Configuration Pack Editor - Information Export succeeded. OK			
SelectAll	Continue			

Figure 47. Export Succeeded window

4. Click OK.

What to do next

For more information about how to manage a configuration item version, refer to the following web page: TechNet Library: About Content Versions in Desired Configuration Management.

Exporting configuration items to the SCCM Console

The following procedure describes how to export configuration items directly to the SCCM Console.

Procedure

 From the Lenovo Configuration Pack Editor menu, click Export > Export to SCCM Console. The Select the Configuration Item page opens.

В	Lenovo Configuration Pa	ack Editor - Export Con	figuration Item to SCCM Co	nsole X		
S Se	Select the Configuration Item Ieron Select the Configuration Item or Items that you wish to export to SCCM Console. Step					
	Name Configuration Items Sample Lenovo Configuration Items	Version 1 1	Description Configuration Items Description			
		< Back N	ext > Export	Cancel		

Figure 48. Select the Configuration Item page

2. Select the configuration items you want to export and click **Next**. The SCCM Console position information page opens.

Lenovo Configuration Pack Editor - Export Configuration Item to SCCM Cor	nsole 🗙
SCCM Console position information Ice Please input the machine information that the SCCM Console installed Ice	Step 2/3
The SCCM Console is on the local machine The SCCM Console is on a remote machine Machine Name:	
User Name:	
Password:	
< Back Next > Export	Cancel

Figure 49. SCCM Console position information page

- 3. Select one of the following options:
 - The SCCM Console is on the local machine
 - The SCCM Console is on a remote machine, and then enter the following information:
 - Machine Name
 - User Name
 - Password
- 4. Click Next. The Configuration Items Information page opens.

Lenovo Configuration Pack Editor - Export Configuration Item to SCCM Console	x
Configuration Items Information Iero Please input the prefix for the Configuration Items and select Configuration Item type.Then click"Export".It may take a while. Step	VO . 0 3/3
✓ Add a prefix name for the Configuration Items.	
Please choose the right type for the Configuration Item	
O For SCCM2007	
For SCCM2012	
< Back Next > Export Cance	əl

Figure 50. Configuration Items Information page

- 5. Complete the following steps:
 - a. Select Add a prefix name for the configuration items.
 - b. Enter the prefix name.
 - c. Select one of the following SCCM Console types for the configuration item:
 - For SCCM2007
 - For SCCM2012
- 6. Click Export. A message is displayed indicating the Export succeeded.

👃 Lenovo Conf	iguration Pack Editor - Export Configuration Item to SCCM Co	nsole x
Configuration I Please input the prefix type.Then click "Export	tems Information for the Configuration Item I end of the Configuration Items and select Configuration Item	Step 3/3
🖌 Add a prefix	name for the Configuration Items.	
	Lenovo Configuration Pack Editor - Information	
Please choos	Export succeeded.	
	OK	
	• For SCCW2012	
	< Back Next > Export	Cancel

Figure 51. Export Succeeded window

- 7. Click **OK** to close the Information window.
- 8. Click Finish.

Applying Lenovo Configuration Pack using the Microsoft System Center Configuration Manager 2007 console

The information in this section describes how to import configuration data into a Microsoft System Center Configuration Manager (SCCM) server using the Configuration Manager Console.

Importing configuration data into DCM

The following procedure describes how to import configuration data into Desired Configuration Management (DCM).

Procedure

1. Open the Configuration Manager Console and expand **Desired Configuration Management**.



Figure 52. Import Configuration Data selection

2. Right-click **Configuration Baselines** or **Configuration Items** and click **Import Configuration Data**. The Import Configuration Data Wizard opens.

Import Configuration Da Choose Files	ta Wizard
Choose Files Summary Progress Confirmation	Import configuration items and configuration baselines from best practices Configuration Packs, and from other configuration data sources.
	Name Date Modified Size
	Add Delete
	< Previous Next > Finish Cancel

Figure 53. Import Configuration Data Wizard

3. Click **Add** to select the exported Lenovo Configuration Pack .cab file. The Open .cab file window is displayed.

Open				×
Compute	r 🝷 New Volume (F:) 👻	HG • • 😭	Search	
Organize 👻 🔠 Views	👻 🌈 New Folder			0
Favorite Links Desktop Computer Documents Pictures Music Recently Changed Searches Public	Name asu configuration	▼ Date modified ▼ 4/27/2011 2:43 PM 5/5/2011 4:00 PM 4/28/2011 4:55 PM	Type File Folder Cabinet File Cabinet File	Size ▼ Tac 3 KB 3 KB
Folders ^	_ ↓ Configuration		Cab files (*.ca	ib) Cancel

Figure 54. Selecting the . cab file

4. Click **configuration.Cabinet File** and click **Open** to import the file. A Skip Authenticode signature check? window opens.



Figure 55. Skip Authenticode signature check window

5. Click **Yes** to skip the signature check and return to the Choose Files page. The Configuration.cab file is displayed in the list.

Import Configuration Data	a Wizard	The second secon			×
Choose Files Summary Progress Confirmation	Import configuration items ar from other configuration data Files containing configuration	id configuration b a sources. items or configur	aselines from b ation baselines	est practices Configura	ation Packs, and
	Name	Date Modified	Size		-
	C:\Users\Administrator\	5/5/2011 4:	3 KB		<u>A</u> dd <u>D</u> efete
		< Previous	<u>N</u> ext >	>Enish	Cancel

Figure 56. Importing the selected .cab file

6. Click **Next** to import the .cab file. The configuration items are displayed in the Details window.

Import Configuration Dat	a Wizard	×
Summary		
Choose Files Summary	The wizard will import the following configuration data.	
Progress	Details:	
	Configuration Items (2) Configuration Item A Configuration Item	
] To change these settings, click Previous. To apply the settings, click Next.	
	< Previous Einish Ca	ancel

Figure 57. Imported configuration items

7. Click **Next** to apply the settings. A message is displayed indicating that you have successfully imported the configuration data.

Import Configuration Da	ta Wizard	×
Completing th	he Import Configuration Data Wizard	
Choose Files Summary Progress Confirmation	You have successfully completed the Import Configuration Data Wizard with the following details. Details: Configuration Baselines (0) Configuration Items (2) Configuration Item A [Success] Configuration Item [Success]	
	To close this wizard, click Close.	
	< Previous Next > Finish Close	

Figure 58. Successful completion page

- 8. Click **Finish** to exit the Import Configuration Data Wizard and return to the Configuration Manager Console.
- 9. In the navigation pane, right-click **Configuration Items** and click **Refresh**. The imported configuration items are displayed in the center pane.

stem Center Configuration Manager	Configuration Items 2 item	s found				Acti	Actions	
stem Center Configuration Manager Stem Detables (W72 - 85375WCAT, , ; ; Ste Database (W72 - 85375WCAT, , ; Computer Management Computer Management Computer Monagement Computer Molecular Software Updates Configuration Baselines Configuration Baselines Configuration Baselines Configuration Baselines Configuration Configuration Management Configuration Baselines Configuration Configuration State Software Netering Configuration Configuration State Configuration Configuration State Configuration Configuration Management Configuration Configuration Management Software Netering Configuration Configuration Configuration Management Software Netering Software Status Software Status Software Status Software Status Configuration Configuration Configuration Configuration Configuration Configuration Management Configuration Configuration Management Software Status Software Status Software Status Configuration Configuration Configuration Configuration Configuration Configuration Configuration Configuration Management Configuration Management C	Configuration Items 2 (tem	s found	Ig All Columns	CI Version 1 1	I Content Version C 1 1	Action in the second se	ons figuration Items Import Configuration Data New Give Feedback View New Window from Here Refresh Help	

Figure 59. Imported configuration items in the Configuration Manager Console

Note: The imported configuration items might have a Lock status. The Lock status is due to one of the following reasons:

- The configuration data is read-only.
- The configuration data were not authored by the SCCM console administrator.

Viewing configuration item properties

The following procedure describes how to view and edit configuration item properties.

Procedure

- To view the properties for a configuration item, double-click a configuration item from the Configuration Items list. The Lenovo Configuration Item Properties page opens.
- 2. Click the **Settings** tab. The **Settings** tab provides a list of settings associated with the selected configuration item.

		Conf	iguration Items	Sample Properti	es	
General	Settings	Compliance Rules	Detection Methods	Supported Platforms	Relationships	Security
Use sett settings Filter	ings to re are assoc	present business or t siated with this config	ec <u>h</u> nical conditions to guration item.) assess for compliance	on client devic	es. The following
Name			Setting Type	Inherited	l Use	r Setting
IMM.Ba	asicAdapt	erConfigPriv	Script	No	No	
IMM.H	TTPPort		Script	No	No	
IMM.H	TTPPort		Script	No	No	
IMM.B	emotePov	verPriv	Script	No	No	
UEFI.P	rocessor	CoxEnable	Script	No	No	
				Ne <u>w</u>	<u>E</u> dit	Delete
2				OK	Cance	el Apply

Figure 60. Settings tab

3. To view a setting, double-click a setting or right-click a setting and click **Edit**.

4. Click the **Detection Methods** tab.

Configuration Ite	ems Sample Properties
General Settings Compliance Rules Detection Met	rods Supported Platforms Relationships Security
Specify how this application is detected on client devi	zes.
 Always assume application is installed 	
○ Use <u>W</u> indows Installer detection	
Product code:	<u>O</u> pen
⊻ersion:	
Ihis application is installed for one or more	users
 Use a custom script to detect this application 	
VBScript	✓ Open
set fso=CreateObject("Scripting.FileSystemObject" CheckASULocation()) <u> </u>
Sub CheckASULocation() Dim asuName	=
Const FoundASU="Found the location of asu.exe.	
If (fso.FileExists("")) Then	
Exit Sub	
EventLog=EventLog & " [Not Found ASU]: " & ""	
const HKEY_LOCAL_MACHINE = &H80000002	
Set oReg=GetObject("winnights: {impersonationLe	vel=impersonate)!\\'' &
	✓
0	OK Cancel Apply

Figure 61. Detection Method tab

The **Detection Methods** tab lists the detection method for each configuration item. **Detection Methods** verifies whether the ASU.exe file exists on the endpoint. If the ASU.exe does not exist, the configuration item returns a state of Not Detected, and the children settings group ceases to be validated.

5. When you have finished viewing the configuration item properties, click **OK**.

Creating a baseline

A configuration item is assigned to an endpoint using a baseline. The following procedure describes how to create a baseline which contains all of the configuration items that you want to validate on the endpoints.

Procedure

 In the Configuration Manager Console, expand Desired Configuration Management, right-click Configuration Baselines and click New Configuration Baseline.

System Center Configuration Manager Configura	Actions
yste Datase (VZ - GRSJSWCAT, B) Site Datase (VZ - GRSJSWCAT, B) Site Management Confluence Management System Status System Status System Status System Status System Status	Actions Configuration Baseline Configuration Baseline New Configuration Baseline New Configuration New Folder New Folder New Search Folder: Wew New Window from He Refresh Help

Figure 62. New Configuration Baseline function

The Create Configuration Baseline Wizard opens.

Create Configuration Baseline	Wizard
Identification Set Configuration Baseline Rule Summary	Specify a unique name and a description for this configuration baseline.
Progress	Baseline - 1
Confirmation	Description:
	To improve searching and filtering, click Categories and assign one or more categories.
	Categories
1 1	< Previous Next > Finish Cancel

Figure 63. Create Configuration Baseline Wizard

2. Enter a unique **Name** and, optionally, a **Description** for the baseline and then click **Next**.

3. Click the **applications and general** link to select the configuration items that you want to validate.

The Choose configuration items page opens.

Create Configuration Baseline	Wizard	×				
Set Configuration Ba	seline Rules					
Identification Set Configuration Baseline Rule Summary	Specify rules containing configuration items and configuration baselines to define how compliance will be assessed on client computers.					
Progress	<u>R</u> ules:					
	These <u>applications and general</u> configuration items are required and must be properly configured: If these optional <u>application</u> configuration items are detected, they must be properly configured: These <u>software updates</u> must be present: These <u>application</u> configuration items must not be present: These <u>configuration baselines</u> must also be validated:					
		1				
< >		_				

Figure 64. Applications and general link
ook for:	<u> </u>	Eind Now		Clear
Name	Description	Туре	Config	Categ
Configuration Item A	Configuration	Applica Applica	1	

Figure 65. Choose configuration items page

4. Select the configuration items you want to validate on the endpoints and click **OK**. The selected configuration items are displayed beneath the **applications and general** link.

Create Configuration Baseline	Wizard	×
Set Configuration Ba	aseline Rules	
Identification Set Configuration Baseline Rule Summary Progress	Specify rules containing configuration items and configuration baselines to define how compliance will be assessed on client computers.	
Confirmation	One of the following <u>operating system</u> configuration items must be present and properly configured These <u>applications and general</u> configuration items are required and must be properly configured Configuration Item A Configuration Item If these optional <u>application</u> configuration items are detected, they must be properly configured: These <u>software updates</u> must be present: These <u>application</u> configuration items must not be present: These <u>configuration baselines</u> must also be validated: Delete	
4 •	< Previous Next > Finish Cancel	

Figure 66. Applications and general link with configuration items

5. Click Finish to exit the Create Configuration Baseline Wizard.

Assigning a baseline to a collection

You can assign a baseline to a collection to check the settings of clients in that collection. The following procedure describes how to assign a baseline to a collection.

Procedure

1. In the Configuration Manager Console, right-click the new baseline and click **Assign to a Collection**.

Victor View Victor Yigor Yigor Yigor Yigor View Victor Yigor	Configuration Baselines 1 items found Look for: I all Columns Find Now Clear Look for: Clear Look for: Clear Look for: Clear Look Configuration Content Version Categories Ads Ad Move Items Cut Definition Manage Categories Add Ad Properties Help Ceneral Rules Reflatonships Assignments	Actions Configuration Baselines Mew Configuration Baseline Import Configuration Data Import Conf
	Name: Baseline - 1 Description:	Cut

Figure 67. Assign to a Collection function

The Choose Collection page of the Assign Configuration Baseline Wizard opens.

Assign Configuration Base	ine Wizard
Choose Baselines Choose Collection Set Schedule Summary Progress Confirmation	Select a collection that contains the computers to be targeted with the selected configuration baselines.
	< Previous Next > Enish Cancel

Figure 68. Choose Collection page

2. Click Browse to select a target client collection and then click Next.

Assign Configuration Baselin	e Wizard	×
Set Schedule		
Choose Baselines Choose Collection	Specify when the configuration baseline will be assessed for compliance by computers in the target collection.	
Summary		
Progress	Simple schedule	
Confirmation	C Qustom schedule No custom schedule defined. Customize	

Figure 69. Set Schedule page

- 3. Select a schedule for the baseline validation.
 - Simple schedule
 - Custom schedule
- 4. Click Finish to exit the Assign Configuration Baseline Wizard.

Evaluating a baseline on an endpoint

A baseline and its child configuration items are automatically evaluated (the settings for configuration items are checked) according to the schedule you created or selected. You can also advance a baseline evaluation as follows:

Procedure

- 1. To ensure that an endpoint can be found on the SCCM server and that the SCCM client agent is installed, select the applicable endpoint.
 - For a 32-bit endpoint, click **Control Panel** > **Configuration Manager**.
 - For a 64-bit endpoint, click Control Panel > View 32-bit Control Panel Items > Configuration Manager.



Figure 70. Configuration Manager in Control Panel folder

The Configuration Manager Properties window opens.

2. On the Actions tab, select Machine Policy Retrieval & Evaluation Cycle and then click Initiate Action. A message is displayed notifying you that the action has been initiated.

Configuration Man	ager Properties	? ×
General Components You can initiate action currently installed on y	Actions Advanced Updates Cor is to occur on the Configuration Manage our computer.	er components en components e Run pl Advertis
Actions:		
Branch Distribution F Discovery Data Colle File Collection Cycle Hardware Inventory	'oint Maintenance Task action Cycle Cycle	
Software Inventor Software Metering Software Updates User Policy Retrie Windows Installer	The action has been initiate complete.	Iluation Cycle
		ОК
	Initia	ate Action
	OK Cancel	Apply

Figure 71. Action Initiated window

- **3**. Click **OK**. After a few minutes, the baseline is displayed under the **Configurations** tab.
- 4. If the baseline is not displayed, click **Refresh**.

Name	Version	Last Evaluati	Complian	Eva
Baseline - 1	1.00	5/5/2011 5:	Error	Idle
			-	

Figure 72. Configurations tab

Note: If the baseline does not display in the Configuration Baseline list view after few minutes, verify that the SCCM client agent can be found on Configuration Manager Console, as shown in the following figure.



Figure 73. SCCM Client Agent Status

5. Select the baseline and click **Evaluate**. After a few minutes, the **View Report** button is available.

the last of the la		Last Evaluati	Complian	Eva
Baseline - 1	1.00	5/5/2011 5:	Error	In F

Figure 74. Configurations tab with available View Report button

6. Select the baseline and click View Report to review the report.

The Evaluation Report view

An evaluation report is generated for the baseline you select. However, there are some situations when the evaluated setting (script) does not return any value.

There are several reasons why this might occur:

- The endpoint does not have an Integrated Management Module (IMM).
- The endpoint has the IMM, but the evaluated setting cannot be found on the endpoint.
- The wrong user ID and password were used to connect to the IMM.
- The ASU.exe file version is not v3.60 or later.
- The evaluation timed out (5 minutes). System Center Configuration Manager (SCCM) sets the time limit.

Setting/Object Name	Setting/Object Type	Setting/Object Description	Constraint Name	Constraint Description	Severity	Constraint	Instance Data	Current Value
IMM.CIMOverHTTPPort	Script	Configure the IMM port assignment for "IBM Systems Director over HTTP." min="0" max="65535" default="5988"	Instance count validation	The validation of the number of instances of an object or setting	Information	(number(count (ns_ScopeId_550a3dbb-8f51-47a7- 86ac- eef6929722ab_this:Setting_a006e5d1- 83e7-4c9b-bc0c-748ec061f2be)) >number(0))		0
IMM.PowerRestorePolicy	Script	mode of operation if a power loss occurs. This setting can also be configured via BIOS F1 setup. Restore: Restores system to the same state it was before power failed	Instance count validation	The validation of the number of instances of an object or setting	Information	(number(count (ns_Scopeld_550a3dbb-8f51-47a7- 86ac- eef6929722ab_this.Setting_afeee205- 85be-4fa3-9782-8de1bt9d0792)) >number(0))		0

Figure 75. Evaluated setting with no value returned

Note: If the evaluated setting does not return a value, the SCCM client agent deems the setting as non-compliant on the endpoint, and ranks its severity level as Information. The evaluation report does not specify the cause. To determine the cause, you must check the logs in the Windows Event Viewer for details. The following figure provides an example of the Windows Event Viewer logs.

🗧 🔿 🙍 📰 🚺						
Event Viewer (Local)	Application Nu	mber of events: 436				
Custom Views	Level	Date and Time	Source	Event ID	Task C	^
A maliantian	 Information 	11/4/2014 3:00:32 AM	Lenovo Configuration Pack, v5.6	100	None	
Security	 Information 	11/4/2014 3:00:28 AM	Lenovo Configuration Pack, v5.6	100	None	
Setun	Information	11/4/2014 3:00:23 AM	Lenovo Configuration Pack, v5.6	100	None	
Svstem	Information	11/4/2014 3:00:21 AM	ESENT	326	General	
Forwarded Events	Information	11/4/2014 3:00:21 AM	ESENT	105	General	
Applications and Services Lo	Information	11/4/2014 3:00:20 AM	ESENT	102	General	
Subscriptions	Information	11/4/2014 3:00:12 AM	Windows Error Reporting	1001	None	
	Information	11/4/2014 12:54:47 AM	SceCli	1704	None	
	 Information 	11/3/2014 11:27:15 AM	LoadPerf	1000	None	
	Information	11/3/2014 11:27:15 AM	LoadPerf	1001	None	
	Information	11/3/2014 11:26:30 AM	Security-SPP	903	None	
	Information	11/3/2014 11:26:30 AM	Security-SPP	16384	None	
	Error	11/3/2014 11:26:00 AM	Security-SPP	8198	None	
	Information	11/3/2014 11:25:57 AM	Security-SPP	902	None	
	Information	11/3/2014 11:25:57 AM	Security-SPP	1003	None	
	🕕 Error	11/3/2014 11:25:57 AM	Security-SPP	8198	None	
	Information	11/3/2014 11:25:57 AM	Security-SPP	1066	None	
	Information	11/3/2014 11:25:56 AM	Security-SPP	900	None	
	Information	11/3/2014 11:24:58 AM	RestartManager	10001	None	~
	General Detai Log Name: Source: Event ID: Level: User:	6	Logge <u>d</u> : Task Category: Egwordd: Computer:			

Figure 76. Windows Event Viewer logs

Running Homepage Summarization

The Homepage Summarization function provides a summary of the configuration compliance status for each System Center Configuration Manager (SCCM) client.

Procedure

1. In the Configuration Manager Console, right-click **Desired Configuration Management** and click **Run Homepage Summarization**.

File Action View Win	dow Help				_18
🔿 🖄 🖬 🛛 🖬					
System Center Configuratio	n Manager	Desired Configuration Managemen	t		Actions
Site Database (XYZ - 8F Site Management	S37JSWCAT,		a shine a start to be the start of		Desired Configuration Man
E Computer Management	ent	Desired Configuration Manag	ement allows administrators to assess co	nfiguration compliance for	🕒 Schedule Home Page Su
E Collections					Run Home Page Summari
E 🥞 Software Distrib	ution	Desired Configuration Compliance	Summary - Last Updated: 5/5/201	1 4:07 PM	🍘 Give Feedback
🖭 🐻 Software Updat	es	View configuration baselines that are rep	porting noncompliance:		View
Gperating Syste Asset Intelligent	m Deployment :e	Minimum severity:	rror Cateo	orv: All	New Window from Here
🗄 🕋 Software Meteri	ng			-	Refresh
Reporting Desired Configu	ration Management	Name	St		Properties
🖂 🍓 Configurat	Schedule Homepa	ge Summarization	uns view.		Help
E Config	Run Homepage Su Give Feedback	ummarization			I nep
E 🔍 Queries	View				
Mobile Device 1	New Window from	Here	There are no	values to show in this chart.	
E System Status	Refresh				
E Security Rights	Properties				
er louis	Hale				
	нер				
		Links and Resources	_		
		Use the following links, reports, and reso	ources to manage desired configurations.		
		Navigation	Web Reports	Resources	
		O Configure desired configuration	Compliance by Configuration Ba	② Desired Configuration Ma	
		Manage configuration items	Compliance by Collection	② Desired Configuration Ma	
		Manage configuration baselines	Scompliance by Computer	Onfiguration Pack Downl	
		View reports	Compliance by Configuration It	ConfigMgr Home on Micro	
				ConfigMgr TechCenter on	

Figure 77. Run Homepage Summarization function

2. After a few minutes, right-click **Desired Configuration Management** again and click **Refresh**. The assigned baseline report is displayed.



Figure 78. Baseline report

3. To view the report, in the View configuration baselines that are reporting noncompliance window, click the baseline name. The report is displayed to the right.

Note: The Configuration Manager Console must have **Report access** enabled, otherwise you cannot open the report view.

For more information about DCM reports, see TechNet Library: About Reports for Desired Configuration Management..

Applying Lenovo Configuration Pack using the Microsoft System Center Configuration Manager 2012 console

The information in this section describes how to import configuration data into the Microsoft System Center Configuration Manager 2012 (SCCM) server using the Configuration Manager Console.

Importing configuration data into DCM

The following procedure describes how to import configuration data into Desired Configuration Management (DCM).

Procedure

1. Open the Configuration Manager Console and expand **Desired Configuration Management**.

Folder Tools System Center 2	2012 Confi	guration Manager (C	onnected to 1	3B - sccm-13B)							- 8 ×	:
Home Folder											~ (0
Create Import Configuration Item Configuration Data Create Searches	•											
← → ▼ 👔 \ → Assets and Compliance →	Overview	Compliance Settings	Configuration	on Items							- :	•
Assets and Compliance	Configurati	ion Items 0 items										
4 👺 Overview	Search									X P Search	Add Criteria *	
🕹 Users	Icon N	lame	Туре	Device Type	Revision	Child	Relationships	User Setting	Date Modified			
Devices User Collections Due Collections Due Collections Due Collections Software Metering Complexe Metering Our Data and Profil Import Configura Polder	tion Item tion Data	•			0	No items fo	und.					
Assets and Compliance												

Figure 79. Import Configuration Data function

2. Right-click **Configuration Baselines** or **Configuration Items**, and click **Import Configuration Data**. The Import Configuration Data Wizard opens.

3	Import	t Configuration Data Wiza	ard		X
Select Files					
Select Files Summary Progress Confirmation	Specify the file configuration to Import configuration from other configuration Files that gontain co	es from which to import op paselines hitems and configuration baselines ation data sources.	configuration ite from best-practices Cor paselines:	ms and Ifiguration Packs and	
	Filter			Q	
	Name	Date Modified	Size		
		There are no items to sh	ow in this view.		9
	🗌 Create a new co	opy of the imported configuration ba	<u>A</u> dd aselines and configuration	<u>R</u> emove	
	0	< Previous	<u>√</u> ext >	nary Cancel	

Figure 80. Select Files function

3. Click **Add** to select the exported Lenovo Configuration Pack .cab file. The Open .cab file window is displayed.

Ope	n			x					
Name	Date modified	Туре	Size						
鷆 Integration Services Script Component	2/26/2013 7:02 AM	File folder							
퉬 Integration Services Script Task	2/26/2013 7:02 AM	File folder							
퉬 SQL Server Management Studio	2/26/2013 7:02 AM	File folder							
퉬 Visual Studio 2005	2/26/2013 6:53 AM	File folder							
🍌 Visual Studio 2008	2/26/2013 6:57 AM	File folder							
🚦 configuration	9/23/2014 7:35 AM	Cabinet File	5 KB						
me: configuration		v Cahinet	files (* cab)	~					
		Op	en Ca	ncel					
	Ope raries > Documents > Name Integration Services Script Component Integration Services Script Task SQL Server Management Studio Visual Studio 2005 Visual Studio 2008 configuration	Open raries > Documents > Name Date modified Integration Services Script Component 2/26/2013 7:02 AM Integration Services Script Task 2/26/2013 7:02 AM SQL Server Management Studio 2/26/2013 6:53 AM Visual Studio 2005 2/26/2013 6:57 AM Tosu Studio 2008 2/26/2013 6:57 AM Configuration 9/23/2014 7:35 AM	Open Search Date modified Type Name Date modified Type Integration Services Script Component 2/26/2013 7:02 AM File folder Integration Services Script Task 2/26/2013 7:02 AM File folder SQL Server Management Studio 2/26/2013 7:02 AM File folder Visual Studio 2005 2/26/2013 6:53 AM File folder Visual Studio 2008 2/26/2013 6:57 AM File folder Total Studio 2008 2/26/2013 6:57 AM File folder Total Studio 2008 2/26/2013 6:57 AM File folder Configuration 9/23/2014 7:35 AM Cabinet File	Open Search Documents Integration Services Script Component 2/26/2013 7:02 AM File folder Integration Services Script Task 2/26/2013 7:02 AM File folder SQL Server Management Studio 2/26/2013 7:02 AM File folder Visual Studio 2005 2/26/2013 7:02 AM File folder Visual Studio 2005 2/26/2013 6:53 AM File folder Visual Studio 2008 2/26/2013 6:57 AM File folder Toringuration 9/23/2014 7:35 AM Cabinet File 5 KB					

Figure 81. Selecting the exported .cab file

4. Click **Configuration .cab Cabinet File** and click **Open** to import the file. A **Verify Publisher** window opens.



Figure 82. Publisher Check window

5. Click Yes to import the file. The Configuration.cab file is displayed in the list.

Import Co	nfiguration Data Wizard	I		X
Specify the files from configuration base Import configuration items from other configuration of Files that contain configuration	om which to import co elines s and configuration baselines fror data sources. ration items or configuration base	nfiguration ite m best-practices Con elines:	MS and Ifiguration Packs and	
Filter Name configuration.cab	Date Modified 9/23/2014 7:35:34 AM	Size 4.25 KB		
Create a new copy of	the imported configuration base	Add	<u>R</u> emove	
	Specify the files fr configuration base Import configuration items from other configuration of Files that <u>contain configu</u> Files that <u>contain configu</u> Files that <u>contain configu</u> Files that <u>contain configu</u> Files that <u>contain configu</u>	Specify the files from which to import conconfiguration baselines Import configuration items and configuration baselines from other configuration data sources. Files that contain configuration items or configuration baselines Filter Name Date Modified configuration.cab 9/23/2014 7:35:34 AM Create a new copy of the imported configuration baselines Image: Create a new copy of the imported configuration baselines	Specify the files from which to import configuration iter configuration baselines Import configuration items and configuration baselines from best-practices Confrom other configuration data sources. Files that contain configuration items or configuration baselines: Filter Name Date Modified configuration.cab 9/23/2014 7:35:34 AM 4.25 KB	Specify the files from which to import configuration items and configuration baselines Import configuration items and configuration baselines from best-practices Configuration Packs and from other configuration data sources. Files that gontain configuration items or configuration baselines: Filter Name Date Modified Size configuration.cab 9/23/2014 7:35:34 AM 4.25 KB

Figure 83. Importing the selected .cab file

6. Click **Next** to import the .cab file. The configuration items are displayed in the details window.

\$	Import Configuration Data Wizard	x
Summary		
Select Files Summary Progress Confirmation	Confirm the configuration data to be imported: The wizard will import the following configuration data. Details:	
	☐ Configuration Baselines (0) ☐ Configuration Items (2) ☐ Lenovo Configuration Items ☐ Configuration Items Sample. To change these settings, click Previous. To apply the settings, click Next.	
	Image: Summary Cancel	

Figure 84. Confirm the configuration data

7. Click **Next** to apply the settings. A message is displayed indicating that you have successfully completed the Import Configuration Data Wizard. The Details window has a list of the imported configuration items.

\$	Import Configuration Data Wizard	x
Confirmation		
Select Files Summary	Completing the Import Configuration Data Wizard	
Confirmation	You have successfully completed the Import Configuration Data Wizard with the following details.	
	Details:	
	To close this wizard, click Close.	_
	< Previous Next > Summary Close	

Figure 85. Successful completion

- 8. Click **Close** to exit the Import Configuration Data Wizard.
- 9. Right-click **Configuration Items** and click **Refresh**. The imported configuration items are displayed in the window.

Grune Juner											
← → ▼ 3 \ ► Assets and Compliance ►	Overv	ew Compliance Settings Configu 	ration Items								
Assets and Compliance 4	Config	uration Items 3 items									
4 Se Overview	Search	varch X									
💄 Users	lcon	Name	Type	Device Type	Revision	Child	Relationships	User Setting	Date Modified		
💽 Devices	2	Configuration Items Sample	Application	Windows	1	No	No	No	11/4/2014 7:15 AM		
💰 User Collections	2	Lenovo Configuration Items	Application	Windows	2	No	Yes	No	11/3/2014 8:03 AM		
Device Collections	2	lenovo items1	Application	Windows	1	No	Yes	No	11/3/2014 8:42 AM		
🚴 User State Migration											
A Sset Intelligence											
Catalog											
inventoried Software											
lige Hardware Requirements											
🗒 Software Metering											
Compliance Settings											
Configuration Items											
Configuration Baselines											
📸 User Data and Profiles											
Endpoint Protection											
Assets and Compliance											
👘 Software Library											
Monitoring											
Administration								AC AC	tivate Windows		

Figure 86. Imported configuration items

Note: The imported configuration items might have a Lock status. The Lock status is due to one of the following reasons:

- The configuration data is read-only.
- The configuration data were not authored by the SCCM console administrator.

Viewing configuration item properties

The following procedure describes how to view and edit configuration item properties.

Procedure

- To view the properties for a configuration item, double-click a configuration item from the Configuration Items list. The Lenovo Configuration Item Properties page opens.
- **2**. Click the **Settings** tab. The **Settings** tab provides a list of settings associated with the selected configuration item.

		Conf	iguration Items	Sample Propertie	es	
General	Settings	Compliance Rules	Detection Methods	Supported Platforms	Relationships	Security
Use se setting: Filter	ttings to re s are assoc	present business or t ciated with this config	echnical conditions to guration item.) assess for compliance	on client devic	es. The following
Name			Setting Type	Inherited	l User	Setting
IMM.E	3asicAdapl	terConfigPriv	Script	No	No	
IMM.H	1TPPort		Script	No	No	
IMM.H	11 TPPort		Script	No	No	
IMM.F	RemotePov	werPriv	Script	No	No	
				Ne <u>w</u>	<u>E</u> dit	Delete
2				OK	Cance	el <u>A</u> pply



- 3. To view a setting, double-click a setting or right-click a setting and click Edit.
- 4. Click the **Detection Methods** tab.

E C	onfiguration Items	Sample Properti	es	
General Settings Compliance R	les Detection Methods	Supported Platforms	Relationships	Security
Specify how this application is de	tected on client devices.			
 Always assume application is 	installed			
O Use <u>W</u> indows Installer detect	ion			
Product code:				<u>O</u> pen
⊻ersion:				
This application is inst	alled for one or more users			
 Use a custom script to detect 	this application			
VBScript			¥	0p <u>e</u> n
set fso=CreateObject("Scriptin	ng.FileSystemObject'')		<u>^</u>	<u>C</u> lear
Sub CheckASUI ocation()			=	
Dim asuName	location of acuieve "			
Const NotFound=""	incation of asta.exe.			
Wscript.Echo FoundASU				
Else	-			
EventLog=EventLog & "[Not const KEY_QUERY_VALUE	Found ASU]: '' & '''' = &H0001			
const HKEY_LOCAL_MACHI strComputer = "."	NE = &H80000002			
Set oReg=GetObject("winmg strComputer & "\root\default:"	mts:{impersonationLevel=ii StdRegProv'')	mpersonate}!\\'' &		
	n - Anno - Mar 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19			
		04	Creation	d Annie
W		UK	Lance	

Figure 88. Detection Method tab

The **Detection Methods** tab lists the detection method for each configuration item. **Detection Methods** verifies whether the ASU.exe file exists on the endpoint. If the ASU.exe does not exist, the configuration item returns a state of Not Detected, and the children settings group ceases to be validated.

5. When you have finished viewing the configuration item properties, click OK.

Creating a baseline

A configuration item is assigned to an endpoint using a baseline. The following procedure describes how to create a baseline which contains all of the configuration items that you want to validate on the endpoints.

Procedure

- 1. In the Configuration Manager Console, expand Desired Configuration Management.
- 2. Right-click Configuration Baselines and click New Configuration Baseline.

1	Create Configura	ation Baseline	
Specify general inform	ation about this confi	guration baseline	
Name: Description:	Baseline sample		
			~
Select the configuration data (compliance by this configuration specified are compliant. Option	configuration items, configuration n baseline. This configuration b al items are evaluated only if the	n baselines, and software u aseline will be assessed as a relevant application is pre	updates) to be evaluated for compliant if all the items sent on the client devices.
Filter			Q
Name	Type	Purpose	Revision
Add 🔻 Ch	ange Purpose 💌	Change Revision	▼ Remove
Configuration Items Software Updates	hing and filtering:		
Configuration Baselines			Categories
2			OK Canad

Figure 89. Create Configuration Baseline function

The Create Configuration Baseline wizard opens.

3. Enter a unique **Name** and, optionally, a **Description** for the baseline, and then click **Add**.

		Create Configura	tion Baseline			x
Specify general	informatio	n about this config	guration baseline	e		
Mama:	Page	line comple				1
Name.	Dase	line sample]
Description	i:				^	
					~	
Carllan Hala						
Filter					Q	
Filter		Туре	Purpos	e	Revision]
Filter Name	Change B	Type There are no items to s	Purpos now in this view.	e	Revision	
Filter Name Add	Change F	Type There are no items to s	Purpos now in this view. Change Revision	e •	Revision	
Add Configuration late	Change F ems	Type There are no items to s Purpose	Purpos now in this view. Change Revision	e .	Revision	
Add Configuration late Software Update Configuration Ba	Change F ems s asselines	Type There are no items to s Purpose	Purpos how in this view. Change Revision	e .	Revision Remove	

Figure 90. Add Configuration Items

4. Click the **Configuration Items** link to select the configuration items that you want to validate.

		Add Configuratio	on Items	
Select the config baseline Available configuration ite	juration iter	ns that you wa	nt to add to this confi	guration
Filter				۶
Name	Туре	Latest Revision	Description	Status
Configuration Items S lenovo items1	Application Application	Revision 1 Revision 1	Configuration Items Descrip	Enabled Enabled
onfiguration items that w	ill be added to this	Add	<u>R</u> emove	
onfiguration items that w Filter	ill be added to this	Add	<u>R</u> emove	P
Configuration items that w Filter Name Lenovo Configuration	ill be added to this Type Application	Add s configuration baseline Latest Revision Revision 2	Remove Description	Status Enabled
Configuration items that w Filter Name Lenovo Configuration	ill be added to this Type Application	Add s configuration baseline Latest Revision Revision 2	<u>R</u> emove	Status Enabled

Figure 91. Configuration Items list

5. Click **OK** to exit the wizard.

Assigning a baseline to a collection

You can assign a baseline to a collection to check the settings of clients in that collection. The following procedure describes how to assign a baseline to a collection.

Procedure

1. In the Configuration Manager Console, right-click the new baseline and click **Deploy**.

\leftarrow \rightarrow \checkmark 🖾 \land \bullet Assets and Compliance \bullet	Overvie	w ► Comp	liance	Settings	 Conf 	iguration Ba	selines					
Assets and Compliance 4	Configu	onfiguration Baselines 2 items										
4 Se Overview	Search											
🔱 Users	lcon	Name			Status	Deployed	User Setti	ng	Date Modified	Compliance Count	Noncompliance	Count
💽 Devices	F	jinhufei			Enabled	Yes	No		11/3/2014 8:04 AM	0	0	
💰 User Collections	-	lenovo item	. 1		Franklad	W	N	1	11/3/2014 8:42 AM	1	1	
Device Collections			1	Show M	embers							
🅾 User State Migration			Θ	Schedule	Summaria	zation						
🔺 🚞 Asset Intelligence				Run Sum	marization	n						
Catalog			•	View Xm	I Definition	'n						
inventoried Software				Enable								
Hardware Requirements			J.	Disable								
Software Metering			-	Export								
Compliance Settings			Ph.	Carry								
😭 Configuration Items			-	сору								
Configuration Baselines			G	Refresh			F5					
👔 User Data and Profiles			X	Delete			Delete					
Endpoint Protection			٠	Deploy								
				Move								
💭 Assets and Compliance				Categoria	ze		,					
Software Library			6	Set Secu	rity Scope:	5						
NP. Soldiac cibiary				Propertie	25							
Monitoring								1				
Administration												Activ

Figure 92. Deploy to a Collection function

The Deploy Configuration Baselines wizard opens.

Deploy Configuration Baselines	x
Select the configuration baselines that you want to deploy to a collection	
Available configuration baselines: Selected configuration baselines:	
Filter P	2
jinhufei Add > lenovo items 1 < Rgmove	
Remediate <u>n</u> oncompliant rules when supported	
Allow remediation outside the maintenance window	
□ <u>G</u> enerate an alert:	
When compliance is below: 90 🏠 %	
Date and time: 11/ 4/2014 ✓ 7:58 AM Generate System Center Operations Manager alert	
Select the collection for this configuration baseline deployment. Collection:	
Specify the compliance evaluation schedule for this configuration baseline:	
Simple schedule	
Run every: 7 🗘 Days 🗸	
O <u>C</u> ustom schedule	
No custom schedule defined.	
OK Car	ncel

Figure 93. Assign Configuration Baseline function

Note: To remediate the noncompliant settings, click **Remediate noncompliant rules when supported**. When this option is selected, nothing happens if a setting is compliant. If a setting is non-compliant, System Center Configuration Manager attempts to change the non-compliant setting to the expected value. The remediation option might not always be successful.

- 2. In the Select the collection for this configuration baseline deployment section, click **Browse** and to select a target client collection.
- 3. Select a schedule for the baseline validation.
 - Simple schedule
 - Custom schedule
- 4. Click OK.

Evaluating a baseline on the endpoint

A baseline and its child configuration items are automatically evaluated (the settings for configuration items are checked) according to the schedule you created or selected. You can also advance a baseline evaluation as follows:

Procedure

- 1. To ensure that an endpoint can be found on the SCCM server and that the SCCM client agent is installed, select the applicable endpoint.
 - For a 32-bit endpoint, click **Control Panel** > **Configuration Manager**.
 - For a 64-bit endpoint, click Control Panel > View 32-bit Control Panel Items > Configuration Manager.

📴 All Control Panel Items		-	
Control Panel - All Control	Panel Items 👻	👻 🚰 🛛 Search Control Panel	2
Adjust your computer's settings		View by: Small icons 🔻	
PAction Center	administrative Tools	📑 AutoPlay	
🜉 Color Management	🛺 Configuration Manager	Credential Manager	
Pate and Time	🍘 Default Programs	🚔 Device Manager	
n Devices and Printers	🕎 Display	S Ease of Access Center	
📓 Folder Options	Fonts	🔂 Internet Options	
🔩 iSCSI Initiator	📖 Keyboard	J Mouse	
👯 Network and Sharing Center	🛄 Notification Area Icons	Phone and Modem	
Power Options	Programs and Features	🖉 Region and Language	
🐻 RemoteApp and Desktop Connections	🛋 Sound	1 System	
🔔 Taskbar and Start Menu	🔁 Text to Speech	Troubleshooting	
🍇 User Accounts	📑 Windows CardSpace	P Windows Firewall	
a Windows Update			

Figure 94. Configuration Manager in Control Panel folder

The Configuration Manager Properties window opens.

2. On the Actions tab, select Machine Policy Retrieval & Evaluation Cycle, and then click Initiate Action. A message is displayed notifying you that the action has been initiated.

Configuration Manager	er Properties Actions Advanced Updates Con	figurations
Actions:	o occur on the Configuration Manage r computer.	e Run pl Advertis
Branch Distribution Poir Discovery Data Collecti File Collection Cycle Hardware Inventory Cyc Machine Policy Retriev	nt Maintenance Task on Cycle cle al & Evaluation Cycle	
Software Inventor Software Metering Software Updates User Policy Retrie Windows Installer	Machine Policy Retrieval & Eval	d. It may take several minutes to
		ОК
	Initiat	te Action
	OK Cancel	Apply

Figure 95. Action Initiated window

- 3. Click **OK**. After a few minutes, the baseline is displayed beneath the **Configurations** tab.
- 4. If the baseline is not displayed, click **Refresh**.

🛅 Configuration M	anager Propert	ies		×
General Cache	Components Configu	Actions	Site Network	
Assigned configur	ation baselines:			
Name	Revision	Last Evaluati	Complian Eva	
Baseline	1	N/A	Unknown Idle	
•			►	
Evalu	ate 👘 😵	View Report	Refresh	
	0	K Cano	cel Apply	

Figure 96. Configurations tab

5. Select the baseline, and click **Evaluate**. After a few minutes, the **View Report** button is available.

General Cache	Components Confi	s Actior gurations	ns 9 Netwo	Site ork
Assigned configuration	on baselines:		1	
Name Receive Secole	Revi	Last Evaluati	Complian	Evalu
			1	
1				ľ

Figure 97. Configurations tab with View Report button available

6. Select the baseline and click View Report to review the report.

The Evaluation Report view

An evaluation report is generated for the baseline you select. However, there are some situations when the evaluated setting (script) does not return any value.

There are several reasons why this might occur:

- The endpoint does not have an Integrated Management Module (IMM).
- The endpoint has the IMM, but the evaluated setting cannot be found on the endpoint.
- The wrong user ID and password were used to connect to the IMM.
- The ASU.exe file version is not v3.60 or later.
- The evaluation timed out (5 minutes). System Center Configuration Manager(SCCM) sets the time limit.

Summary:

Name	Revision	Туре	Baseline Policy	Compliance State	Non- Compliance Severity	Discovery Failures	Non- Compliant Rules	Remediated Rules	Conflicting Rules
Test	1	Baseline		Non-Compliant	Information	0	5	3	0
Test	1	Application Configuration	Required	Non-Compliant	Information	0	5	3	0

Figure 98. Summary of evaluated results

Note: If the evaluated setting does not return a value, the SCCM client agent deems the setting as non-compliant on the endpoint, and ranks its severity level as Information. The evaluation report does not specify the cause. To determine the cause, check the logs in the Windows Event Viewer for details. The following figure provides an example of the Windows Event Viewer logs.

8				Event Vi	ewer	
File Action View Help						
🗢 🔿 🙎 📰 🚺 🗊						
Event Viewer (Local)	Application Nu	mber of events: 436				
Custom Views	Level	Date and Time	Source	Event ID	Task C	
Windows Logs	(i)Information	11/4/2014 3:00:32 AM	Lenovo Configuration Pack, v5.6	100	None	
Application	(i) Information	11/4/2014 3:00:28 AM	Lenovo Configuration Pack, v5.6	100	None	
Setup	(i) Information	11/4/2014 3:00:23 AM	Lenovo Configuration Pack, v5.6	100	None	
System	(1) Information	11/4/2014 3:00:21 AM	ESENT	326	General	
E Forwarded Events	(i) Information	11/4/2014 3:00:21 AM	ESENT	105	General	
Applications and Services Lo	(i) Information	11/4/2014 3:00:20 AM	ESENT	102	General	
Subscriptions	(i) Information	11/4/2014 3:00:12 AM	Windows Error Reporting	1001	None	
	(i) Information	11/4/2014 12:54:47 AM	SceCli	1704	None	
	(i) Information	11/3/2014 11:27:15 AM	LoadPerf	1000	None	
	 Information 	11/3/2014 11:27:15 AM	LoadPerf	1001	None	
	 Information 	11/3/2014 11:26:30 AM	Security-SPP	903	None	
	 Information 	11/3/2014 11:26:30 AM	Security-SPP	16384	None	
	🕕 Error	11/3/2014 11:26:00 AM	Security-SPP	8198	None	
	 Information 	11/3/2014 11:25:57 AM	Security-SPP	902	None	
	 Information 	11/3/2014 11:25:57 AM	Security-SPP	1003	None	
	🕕 Error	11/3/2014 11:25:57 AM	Security-SPP	8198	None	
	 Information 	11/3/2014 11:25:57 AM	Security-SPP	1066	None	
	 Information 	11/3/2014 11:25:56 AM	Security-SPP	900	None	
	 Information 	11/3/2014 11:24:58 AM	RestartManager	10001	None	~
						×
	General Datai	le .				
	Decan					
	Log Na <u>m</u> e:					=
	Source:		Logged:			
	Event ID:		Task Category:			
	Level		Kenwords			
	llcon		Computer			Activate
	Que Cardas		compareT:			Go to verti
	Lini oder					

Figure 99. Windows Event Viewer logs

This figure provides a view of the DCM log with remediated rules.

Rule Name	Rule Description	Setting Name	Setting Type	Setting Description		Insta	ace Data		
				Conformation D.D.(Clabel Lands Series Manual	Expressi	n Instance Source	Previou Value	s Remediat Value	
rule	Description	IMM AccountSecurity	Script	security level." Select the authority level associated with this login id.	Equals Hi security settings	gh Property = Line[0]	Legacy security settings	High securit settings	
ediated	Rule:	Setting	S-44-	S-min-					
ediated Rule Name	Rule: Rule Description	Setting Name	Setting Type	Setting Description			Instance	Data	
ediated Rule Name	Rule: Rule Description	Setting Name	Setting Type	Setting Description Configure the IMM Global Login Setting 'Default Password I	ixpired". To	Expression	Instance Instance Pr Source	Data revious Reme Value Va	

Figure 100. Remediated Rules

Running Lenovo Configuration Capture

The Lenovo Configuration Capture function captures IMM, uEFI, and uEFI (Romley Platform) settings from an Lenovo server, and exports the captured settings into a configuration description .xml file.

About this task

To start Lenovo Configuration Capture, click the **Lenovo Configuration Capture** shortcut from the **Start** menu. Lenovo Configuration Capture can also be launched on computers that do not have Lenovo Configuration Pack installed by copying the ILenovo Configuration Pack .exe file onto those computers.

Note: You can launch Lenovo Configuration Pack .exe file without activating the License Entitlement.

Procedure

1. Launch the Lenovo Configuration Capture wizard. The Welcome page opens.

Lenovo Configuration Capture	×
Welcome Welcome to the Lenovo Configuration tool, click Next to continue.	lenovo . Step 1/6
The Lenovo Configuration Capture tool captures the local IMM/UEFI settings. These settings are saved to the Configuration Description XML file. The Configuration Description can be imported to the Lenovo Configuration Pack Editor.	
< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	<u>C</u> ancel

Figure 101. Welcome page

- 2. Select one of the following options for appointing the ASU tool.
 - Use the built-in ASU file
 - Please select an ASU (.exe) file and click Browse to make a file selection.

Lenovo Configuration Capture	x
Select ASU File Please appoint the ASU tool.You can use the built-in ASU file or you can specially appoint a local ASU file.	Step 2/6
 Use the built-in ASU file Please select a ASU(.exe) file 	
C:\ASU\asu64.exe	
< Back Next > Einish	<u>C</u> ancel

Figure 102. Selecting the ASU file

3. Click **Next** to display the General Information page. This page automatically collects information from the local computer.

Б	Lenovo Configuration Capture	x
General Information	for this capture. Click Next to continue.	Step 3/6
Product Name is 03	, and Machine Type/Model is IBM System X3250 M5 -[5458AC1]-	
Name. Description:	The captured IBM System X3250 M5 -[5458AC1]- settings	
	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	<u>C</u> ancel

Figure 103. General Information page

4. Click **Next** on the General Information page. The Lenovo Configuration Capture wizard starts collecting the local computer's IMM/uEFI/uEFI (Romley Platform) settings.

3 Lenovo Configuration Capture	x
General Information Enter a name and description for this capture. Click Next to continue.	lenovo . Step 3/6
Product Name is 03, and Machine Type/Model is IBM System X3250 M5 -[5458.	AC1]
Name: The captured IBM System X3250 M5 -[5458AC1]- settings	
Description: Collecting information from local computer, please wait	
< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	<u>C</u> ancel

Figure 104. Collecting information

After a few minutes, the Lenovo Configuration Capture wizard finishes collecting the settings. The Select Settings page opens, which lists the captured settings.

5. Select the settings you want to export.

В	Lenovo Configuration Capture					
Select The Select Next to con	: Settings Settings page provides a list of all the tinue.	IMM/UEFI settings. Click to sele	ct the settings. Click Step 4/	9 . 6		
IMM S	ettings UEFI Settings		Selected Count: 232/232			
 	Property Name IMM.AccountSecurity IMM.AdapterConfigNetworkS IMM.AdvancedAdapterConfig IMM.AuthorityLevel.1 IMM.AuthorizationMethod IMM.AutoNegotiate1 IMM.AutoROMPromotion IMM.BasicAdapterConfigPriv.1	Property Value Legacy security settings No No Supervisor authorization will be do Yes Enabled No	Description ^ Configure the IMM Global Logi Configure the IMM Advanced Et			
		< <u>B</u> ack <u>N</u> ext	> Einish Cancel			

Figure 105. IMM settings

/ Se	ettings uEFI Settings		
The	following is UEFI setting list		Selected Count: 250/250
	Property Name	Property Value	Description
	uEFI.CkeLowPolicy	Disable	Enable/Disable CKE Low Policy
	uEFI.Com1ActiveAfterBoot	Disable	Active after boot Settings.
\checkmark	uEFI.Com1BaudRate	115200	Set your Baud Rate.
2	uEFI.Com1DataBits	8	Set your Data bits.
2	uEFI.Com1FlowControl	Disable	Flow Control Settings.
\checkmark	uEFI.Com1Parity	None	Set your Parity.
\checkmark	uEFI.Com1StopBits	1	Set your Stop Bits.
\checkmark	uEFI.Com1TextEmul	ANSI	Set your Terminal Emulation.
2	uEFI.Com2ActiveAfterBoot	Disable	Active after boot Settings.
4			> [

Figure 106. uEFI settings

Lenovo Configuration Capture				
Select Settings The Select Settings page provides a list of all the Next to continue.	IMM/UEFI settings. Click to s	select the settings. Click	10 4/6	
IMM Settings UEFI Settings The following is UEFI(Romley Platfo	rm) setting list	Selected Count: 49/49		
Property Name	Property Value	Description		
 DevicesandIOPorts.ActiveVid DevicesandIOPorts.Com1Act DevicesandIOPorts.Com1Ba 	Onboard Device Disable 115200	If Add-in Device is selected, vid = Active after boot Settings. Set your Baud Rate.		
DevicesandiOPorts.Com1Da DevicesandiOPorts.Com1Fi DevicesandiOPorts.Com1Fi DevicesandiOPorts.Com1Pa	8 Disable None	Set your Data bits. Flow Control Settings. Set your Parity.		
DevicesandiOPorts.Com15t	1 ANSI	Set your Stop Bits. Set your Terminal Emulation. Set your Terminal Emulation.		
	< <u>B</u> ack <u>N</u>	ext≻ <u>E</u> inish <u>C</u> ancel		

Figure 107. UEFI (Romley Platform) settings

Note: The capture can fail when the local computer does not have an IMM, a uEFI or a uEFI (Romley Platform) module, or if the IMM account information is incorrect. If the capture fails, click the **Information** link to view more information.

Lenovo Configuration Capture	×
Select Settings The Select Settings page provides a list of all the IMM/UEFI settings. Click to select the setting Next to continue.	s. Click Step 4/6
IMM Settings uEFI Settings	Information
Property N Lenovo Configuration Capture - Information Inquires the IMM information failure. Reason: The User ID and/or Password that was entered is inco	rrect.
Show Log File	Finish Cancel

Figure 108. Incorrect IMM account is incorrect

 Select the settings that you want from the Select Settings page and click Next. The Export page lists settings that you can export to a Configuration Description.xml file.

Property Name	Property Value	Туре	Description
BootModes.OptimizedBoot	Enable	UEFI(Optimized Boot will load a minim
3ootModes.QuietBoot	Enable	UEFI(Disabling Quiet Boot will show s
BootModes.SystemBootMode	UEFI and Legacy	UEFI(Controls which drivers option R
DevicesandIOPorts.ActiveVideo	Add-in Device	UEFI(If Add-in Device is selected, vide.
DevicesandIOPorts.Com1Acti	Disable	UEFI(Active after boot Settings.
DevicesandIOPorts.Com1Ba	115200	UEFI(Set your Baud Rate.
DevicesandIOPorts.Com1Dat	8	UEFI(Set your Data bits.
DevicesandIOPorts.Com1Flo	Disable	UEFI(Flow Control Settings.
DevicesandIOPorts.Com1Par	None	UEFI(Set your Parity.
DevicesandIOPorts.Com1Sto	1	UEFI(Set your Stop Bits.
DevicesandIOPorts.Com1Ter	ANSI	UEFI(Set your Terminal Emulation.
DevicesandIOPorts.Com2Acti	Disable	UEFI(Active after boot Settings.

Figure 109. Export Page

7. Click Next. The Export Successfully Completed page opens.

📕 Lenovo Configuration Capture			×
Export Successfully Comple	eted		lenovo
Capture Finished.			Sten 6/6
			0.00 0/0
🔽 The Lenovo Configuration Capture	tool successfully e	orted the settings t	o: C:\captured .xml.
Concenthe Configuration Description	tion VML file folder		
Dependine Configuration Descrip	NION XWL Me loider		
🗖 Show Log File	< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish <u>C</u> ancel

Figure 110. Export Successfully Completed

Note: You can export the captured configuration description file into any Lenovo Configuration Pack Editor to manage. For more information, see "Creating a configuration item" on page 24.
Chapter 4. Hardware and software support

The topics in this section describe the hardware and software that is supported by Lenovo Configuration Pack for Microsoft System Center Configuration Manager v6.0.

Supported Microsoft System Center products

Lenovo Configuration Pack for Microsoft System Center Configuration Manager v6.0 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

Lenovo Configuration Pack for Microsoft System Center Configuration Manager v6.0 supports the following client systems:

Machine type
7870, 1936, 7809, 1910
7871, 1949
7875
8038, 8039
7906, 2585
7916
8737
7903
7917
5455
2582
5457
4367, 4368
7327,7328
7657, 4190, 4191, 4190
4251, 4252, 4261
2583
5458
7382
7836, 7837

Table 2. Supported IBM systems

Table 2.	Supported	IBM systems	(continued)
----------	-----------	-------------	-------------

Product family name	Machine type
IBM System x 3400 M3	7378, 7379
IBM System x 3500 M2	7839
IBM System x 3500 M3	7380
IBM System x 3500 M4	7383
IBM System x 3530 M4	7160
IBM System x 3550 M2	7946, 4198
IBM System x 3550 M3	7944, 4254
IBM System x 3550 M4	7914
IBM System x 3620 M3	7376
IBM System x 3630 M3	7377
IBM System x 3630 M4	7158
IBM System x 3650 M2	7947, 4199
IBM System x 3650 M3	7945, 4255, 5454
IBM System x 3650 M4	5466, 7158, 7915
IBM System x 3650 M4 HD	5460
IBM System x 3750 M4	8722, 8733, 8752
IBM System x 3850 X6 / x3950 X6	3837
IBM System x iDataPlex dx360 M2 server	7321, 6380, 7323
IBM System x iDataPlex dx360 M2 server dx360 M3	6391

Table 3.	Supported	Lenovo	systems
----------	-----------	--------	---------

Product family name	Machine type
Lenovo System x3550 M5	5463
Lenovo Flex System x240 M5 Compute Node	2591, 9532
Lenovo Flex System x440 Compute Node	7167, 2590
Lenovo Flex System x280,x480,x880 X6 Compute Node	4258
Lenovo Flex System x240 Compute Node	7162, 2588
Lenovo NeXtScale nx360 M5	5465
Lenovo NeXtScale nx360 M5 DWC	5467, 5468, 5469
Lenovo System x3650 M5	5462

Supported operating systems for client machines

Lenovo Configuration Pack for Microsoft System Center Configuration Manager v6.0 supports the following 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 R2

Chapter 5. Troubleshooting

Use this section to troubleshoot and resolve problems with Lenovo Configuration Pack for Microsoft System Center Configuration Manager.

- If you experience any issues when using Lenovo Configuration Pack Editor, you can check the log file information in the InstallationFolder\logs folder. The logs folder is automatically deleted when the product is uninstalled.
- If you want to export the evaluation logs for Lenovo Configuration Pack on the endpoint, follow these steps:
 - 1. After the evaluation, launch Event Viewer.
 - 2. Expand Windows Logs.
 - 3. Right-click Application node, and click Save Events as.

You can also use the following methods to check whether the property exists and the IMM account is correct:

 Get the specific IMM/uEFI property by typing the following command: asu.exe show propertyname

For example, asu.exe show IMM.HTTPPort

 Get the specific IMM/uEFI property with the account by typing the following command:

asu.exe show propertyname --user UserID --password Password

For example, asu.exe show IMM.HTTPPort --user admin --password esW2Ad

• In the Evaluation Report View section, if the script cannot get the evaluated setting, it does not return a value, and the SCCM client agent deems the evaluated setting to be non-compliant. You can get the details about this evaluated setting from the application logs in Windows. The following terms are used in the application log:

[Not Found ASU]

The ASU.exe file was not found in the specified location.

[TargetOS]

The version of the current operating system: either 64-bit or 32-bit.

[Found ASU]

The location of the ASU.exe file.

[Property]

The name of the evaluated property.

[Set ACCOUNT]

Reflects whether users set the IMM account in Lenovo Configuration Pack Editor.

[TimeOut]

Indicates whether the evaluation has timed out.

[Return Code]

The return code for the ASU.exe file. If the evaluated setting can be found, the return code is 0. Otherwise, the return code is larger than 0. For more details about ASU return codes, refer to the following web page: Advanced Settings Utility (ASU) for Lenovo x86 servers support portal.

[Error Output]

If the evaluated setting is not found, this code records the reason for the failure.

[Output]

If the evaluated setting is found, this code records the ASU.exe file search result.

- Lenovo Configuration Capture records a log file in the Lenovo_Support\DCM\logs folder of the system driver during the launching process. For example, if your system drive is C:, then the log file is recorded under the C:\Lenovo_Support\ DMC\logs\ folder.
- Lenovo Configuration Capture can capture all IMM/IMM/uEFI/uEFI (Romley Platform) settings from the Lenovo server, but some captured settings may not be included in the common setting list of Lenovo Configuration Pack Editor. Lenovo Configuration Pack Editor cannot list the values of those settings after they are imported; the editor assumes the type for those settings is String type.

5	Lenovo Configuration Pack Editor - Setting Editor			
Select the property that you wish to monitor for compliance. If the property list does not include the desired property, type it in the Property Name field.				
Property Name:	IMM.PowerRestorePolicy			
Description:	mode of operation if a power loss occurs. This setting can also be configured via BIOS F1 setup. Restore: Restores system to the same state it was before power failed.			
	~			
Comparator:	Equals Value: Restore V			
Severity:	Information v			
	Remediate noncompliant IMM/UEFI setting values on client automatically. The remediation action may be failed if the target setting is readonly.			
Expected Value:	Restore			
When the property "IMM.PowerRestorePolicy" "Equals" "Restore", the property is compliant on the endpoint. Otherwise, the property is non-compliant and returns a severity of "Information".				
	OK Cancel Apply			

Figure 111. Lenovo Configuration Pack Editor - Setting Editor page

In Figure 111, the IMM.DuplexAutoDisable property is not in the common setting list of Lenovo Configuration Pack Editor, and the Description and Expected Value fields are empty. Lenovo Configuration Pack Editor assumes that the type for the IMM.DuplexAutoDisable property is String. For details about the different types, see Table 1 on page 15.

Notices

Lenovo may not offer the products, services, or features discussed in this document in all countries. Consult your local Lenovo representative for information on the products and services currently available in your area.

Any reference to a Lenovo product, program, or service is not intended to state or imply that only that Lenovo product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any Lenovo intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any other product, program, or service.

Lenovo may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

Lenovo (United States), Inc. 1009 Think Place - Building One Morrisville, NC 27560 U.S.A. Attention: Lenovo Director of Licensing

LENOVO PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. Lenovo may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

The products described in this document are not intended for use in implantation or other life support applications where malfunction may result in injury or death to persons. The information contained in this document does not affect or change Lenovo product specifications or warranties. Nothing in this document shall operate as an express or implied license or indemnity under the intellectual property rights of Lenovo or third parties. All information contained in this document was obtained in specific environments and is presented as an illustration. The result obtained in other operating environments may vary.

Lenovo may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Any references in this publication to non-Lenovo Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this Lenovo product, and use of those Web sites is at your own risk. Any performance data contained herein was determined in a controlled environment. Therefore, the result obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Trademarks

Lenovo, the Lenovo logo, Flex System[®], System x[®], and NeXtScale[®] System are trademarks of Lenovo in the United States, other countries, or both.

Intel and Intel Xeon are trademarks of Intel Corporation in the United States, other countries, or both.

Internet Explorer, Microsoft, and Windows are trademarks of the Microsoft group of companies.

Linux is a registered trademark of Linus Torvalds.

Other company, product, or service names may be trademarks or service marks of others.

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.

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

Lenovo makes no representations or warranties with respect to non-Lenovo products. Support (if any) for the non-Lenovo products is provided by the third party, not Lenovo.

Some software might differ from its retail version (if available) and might not include user manuals or all program functionality.

Index

Α

Adobe Acrobat Reader xi Advanced Settings Utility 2 Assign Baseline 60 assigning and evaluating configuration data 9 ASU 2

В

Baseline 62 Assigning to collection 60, 80 Creating 56 Evaluating on endpoint 83 Report 68

С

CAB file 70 export 41 import 41 capturing configuration data 9 Comparators 12 Configuration Capture 88 configuration data 9 Configuration data Exporting 35 Import to DCM 48 Importing 70 Sharing 35 Configuration Description file 35, 88 Importing 38 Configuration item Create 24 Deleting 34 Duplicating 33 Export to SCCM Console 44 Modifying 30 Properties 54, 76 Viewing 28 Configuration Item 23 **Configuration Pack** Applying to SCCM 2007 Console 48 CAB file 42, 48 Create Baseline 56 Configuration item 24 Setting collection 12 creating configuration data 9

D

Delete Configuration item 34 Duplicate Configuration item 33 Setting Collection 22

Ε

Evaluated setting 67, 86 Evaluating Baseline 83 Evaluation logs 99 Evaluation Report View 86 Export Configuration items To CAB file 42 to SCCM Console 44 Export settings 88 exporting configuration data 9

F

Free Features Premium 1

Η

Homepage Summarization 68

L

Import Configuration data 70 To DCM 48 Configuration Description file 38 important notices 102 Installing Configuration Pack v6.0 3

L

Lenovo Configuration Pack 41 Lenovo Configuration Pack Editor 9 License validation 40 Logs 99

Μ

Microsoft Configuration Manager 2007 9 Microsoft Configuration Manager 2012 9 Modify Configuration item 30 Setting Collection 21

Ν

notes, important 102 notices 101

0

overview 1

Ρ

pdf files xi Properties 54, 76 Property threshold 21

R

Return types 12

S

saving pdf files xi services offered in the U.S.A. 101 Setting Collection 11 Creating 12 Duplicating 22 Modifying 21 Viewing 19 Support For Lenovo systems 2

T

trademarks 101, 102 Trial license 9 Trial license support 1 Troubleshooting 99

U

Uninstalling Lenovo Configuration Pack 8 using with Lenovo Configuration Pack 9

V

Validate License status 40 Value not returned 67 View Configuration item 28

View Setting Collection 19

lenovo

Printed in USA