

IBM System x IBM Configuration Pack for Microsoft System Center Configuration Manager 2007 User's Guide

Version 3.1



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Note

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Edition notice

This edition applies to version 3.1 of the IBM Configuration Pack for Microsoft System Center Configuration Manager 2007, v3.1, v3.1 User's Guide and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this publication

This guide provides instructions for installing IBM Configuration Pack for Microsoft System Center Configuration Manager 2007, v3.1 and using it to author and manage IBM 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.

CI configuration item

ASU IBM Advanced Settings Utility

SCCM

Microsoft System Center Configuration Manager

DCM Desired Configuration Management

IBM System Configuration Setting

One IBM 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.

IBM System Configuration Setting Collection

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

IBM System Configuration Item

A **configuration item** that is composed of other IBM Setting Collections.

IBM System Configuration Description

An XML file that contains IBM configuration setting/**configuration item**information.

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.

DCM Configuration Baseline

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

IBM Configuration Pack

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

Digest Schema

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

IBM configuration data

IBM System Configuration Item**configuration item**s, IBM System Setting Collections and IBM System Settings are collectively called IBM configuration data.

IBM Configuration Pack Editor

An editor that can author IBM CI and Setting Collections, and export IBM configuration data to a IBM Configuration Pack/Configuration Description.

IBM Configuration Capture

This tool can capture IMM/uEFI settings from the IBM server, and export those captured settings to a Configuration Description.

Information resources

You can find additional information about IBM Configuration Pack for Microsoft System Center Configuration Manager 2007, v3.1 on the World Wide Web.

PDF files

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

Downloading Adobe Acrobat Reader

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

Viewing and printing PDF files

You can view or print any of the respective PDF files located on the Microsoft Systems Management Solutions for IBM Servers website. Please click the link provided to locate the individual product pages for each publication.

World Wide Web resources

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

IBM System x Integration Offerings for Microsoft Systems Management Solutions

Here you can locate the latest downloads for IBM Configuration Pack for Microsoft System Center Configuration Manager 2007, v3.1.

IBM Systems: Technical support site

Locate support for IBM hardware and systems-management software.

IBM ServerProven[®] pages

System x ServerProven pages

BladeCenter ServerProven pages

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

Microsoft TechNet: System Center Configuration Manager page

Locate support for the System Center Configuration Manager.

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Chapter 1. Introduction to IBM Configuration Pack for Microsoft System Center Configuration Manager 2007, v3.1

What's new in version v3.1?

Free features

This release includes the following new features:

Capture IMM/uEFI settings

IBM Configuration Capture can capture IMM/uEFI settings from an IBM Server, and export those captured settings to an IBM System Configuration Description file. The exported Configuration Description file can be imported into any one IBM Configuration Pack Editor.

Premium featuires

The following features are fee-based functions that are enabled with a valid product license v3.1 or higher:

Author IBM System configuration data:

The IBM System configuration data is composed of IBM **configuration items**, IBM Configuration Setting Collections and IBM configuration settings. In this release, the IBM System configuration data scope is IMM/uEFI settings.

Support the common settings of IMM/uEFI:

The IBM Configuration Pack Editor supports some common settings of IMM/uEFI that can help you author IBM System configuration settings.

Export IBM System configuration data to a IBM Configuration Pack: The IBM Configuration Pack contains **configuration items** and Setting Collections in a .cab file and up to DCM standards. This IBM Configuration Pack can be imported into the DCM server.

Export IBM System configuration data to a Configuration Description: The Configuration Description is an XML file that describes the configuration data. You can share and edit configuration data: you can export IBM configuration data to a Configuration Description, or a Configuration Description can be imported into the IBM Configuration Pack Editor.

Import IBM System Configuration Description:

You can import a Configuration Description at one time, or in the Configuration Description, which can include more than one IBM CI/Setting Collections.

How IBM Configuration Pack for Microsoft System Center Configuration Manager 2007, v3.1 supports IBM systems

IBM Configuration Pack for Microsoft System Center Configuration Manager 2007, v3.1 provides the setting to check for IMM/uEFI. Use IBM Configuration Pack Editor to author settings that you want to validate on the endpoint.

These IBM configuration data can be exported by IBM Configuration Pack Editor to a Configuration Pack (.cab) file that can be imported in the SCCM DCM. Administrators can assign those configuration data to the specific collections in SCCM. These configuration data include vbscript, which will invoke the ASU.exe tool to validate the endpoint's compliance.

Advanced Settings Utility (ASU)

You can use the IBM Advanced Settings Utility (ASU) to modify firmware settings from the command line on multiple operating-system platforms like DOS, Linux, Solaris, Windows (also WinPE). It supports BIOS code, Remote Supervisor Adapter firmware, Remote Supervisor Adapter II firmware, Baseboard management controller firmware, IMM etc.

Note: IBM Configuration Pack for Microsoft System Center Configuration Manager 2007, v3.1 will use ASU v3.60 or above on the endpoint (http://www-947.ibm.com/support/entry/portal/docdisplay?lndocid=TOOL-ASU). IBM configuration data doesn't include ASU.exe, so copy ASU.exe to the following specific place on the endpoint:

Copy the ASU.exe (for 32-bit OS) or ASU64.exe (for 64-bit OS) under the IBM_Support\ASU\ folder of the system directory, e.g. C:\IBM_Support\ASU\asu.exe, C:\IBM_Support\ASU\asu64.exe. The location of ASU.exe has been recorded in the registry: The string key "Location" under HKEY_LOCAL_MACHINE\SOFTWARE\ (Wow6432Node)\IBM\ASU\

In addition, you can type an absolute path of ASU.exe in the IBM Configuration Pack Editor.

Chapter 2. Installing the IBM Configuration Pack v3.1

1. Double click on the IBM Configuration Pack v3.1 installer (.exe file). The welcome page for IBM Configuration Pack appears.



Figure 1. Install wizard welcome page

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

	Agreement			
Please read the	following license agree	ement carefully.		
International Lice	ense Agreement fo	or Non-Warranted	Programs	-
Part 1 - General	Terms			
BY DOWNLOAE AN "ACCEPT" E LICENSEE AGR ACCEPTING TH AND WARRANT THESE TERMS.	NING, INSTALLING UTTON, OR OTHE EES TO THE TER ESE TERMS ON I THAT YOU HAVE IF YOU DO NOT	B, COPYING, AC ERWISE USING RMS OF THIS AC BEHALF OF LIC E FULL AUTHOR AGREE TO THE	CESSING, CLICKING THE PROGRAM, BREEMENT. IF YOU ENSEE, YOU REPR TTY TO BIND LICEN SE TERMS,	G ON ARE ESENT SEE TO
	NLOAD INSTALL	CORV ACCES	S. CLICK ON AN	
* DO NOT DOW		COFT. ACCES		•
* DO NOT DOW C I accept the terr I do not accept InstallShield	ns in the license agree the terms in the licens	ement. le agreement.		•

Figure 2. Install wizard license agreement

- **3**. Select **I** accept the terms in the license agreement to accept the license. Click **Next** to proceed to the Destination Folder page.
- 4. On the Destination Folder page, you can change the directory to install the IBM Configuration Pack by clicking **Change...**.

figuration Pack for Micros	oft System Cente	er Configuration	Manager 200 🗙
ion Folder xt to install to this folder, or cli	ck Change to install	to a different folde	er.
Install IBM Configuration Pac C:\Program Files (x86)\IBM\;	k for Microsoft Syst IBM Configuration Pa	em Center Configu ack\	ration Man Change
<u>.</u>	< Back	Next >	Cancel
	figuration Pack for Micros ion Folder xt to install to this folder, or cli Install IBM Configuration Pac C: \Program Files (x86) \IBM\	figuration Pack for Microsoft System Cente ion Folder xt to install to this folder, or click Change to install Install IBM Configuration Pack for Microsoft Syst C:\Program Files (x86)\IBM\IBM Configuration Pack Soft State	figuration Pack for Microsoft System Center Configuration ion Folder xt to install to this folder, or click Change to install to a different folde Install IBM Configuration Pack for Microsoft System Center Configu C:\Program Files (x86)\IBM\IBM Configuration Pack\ < Back

Figure 3. Destination Folder page

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

IBM Configuration Pack for Microso	oft System Center Configuration Manager 200.
Ready to Install the Program The wizard is ready to begin installation	n.
Click Install to begin the installation.	
If you want to review or change any of exit the wizard.	f your installation settings, click Back. Click Cancel to
tallShield	
	< Back Install Cancel

Figure 4. Ready to Install the Program page

6. Click **Install** to start the installation process. Notifications will appear if any errors occur during installation.

	Please wait while the Inst Microsoft System Center	allShield Wizard insta	lls IBM Configuration er 2007, v3.1, This n	Pack for av take
US	several minutes.	coningal actor manag	. 2001, 10111 11131	
	Status:			
			-	
	7280 C			

Figure 5. Installation status page

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

🙀 IBM Configuration Pack for	Microsoft System Center Configuration Manager 200 🗙
	InstallShield Wizard Completed
	The InstallShield Wizard has successfully installed IBM Configuration Pack for Microsoft System Center Configuration Manager 2007, v3.1. Click Finish to exit the wizard.
	< Back Finish Cancel

Figure 6. Installation complete page

IBM Configuration Pack v3.1uninstallation

There are three ways to uninstall IBM Configuration Pack v3.1:

- Uninstalling from Add or Remove Programs, or if the operating system is Microsoft Windows Server 2008, from Programs and Features.
- Running the IBM Configuration Pack v3.1 installer (.exe file) and selecting the **Remove** option.
- Using the IBM Upward Integrated Installer (see IBM Upward Integrated Installer User's Guide for more information).

Note: If you authored configuration data, you will be notified whether to delete the configuration data Folder during the uninstall process.

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

IBM Configuration Pack v3.1 provides an easy way to author IBM configuration data, and export them to a IBM Configuration Pack.

Brief introduction

The IBM Configuration Pack for SCCM v3.1 provides an easy way to author IBM configuration data, which can be imported into the SCCM DCM Server. The SCCM DCM Server assigns IBM configuration data to their clients to evaluate which clients are up to standard or not.

The following steps are a brief introduction about how to use IBM Configuration Pack and SCCM DCM:

- 1. Create IBM configuration data that you want to evaluate. You can create configuration data in one of the following ways:
 - You can create IBM configuration data in IBM Configuration Pack Editor. For more information, see "Create Setting Collection" on page 11 and "Creating a configuration item" on page 24
 - You can capture IBM configuration data from an IBM Server which has IMM/uEFI module. For details, see "Running IBM Configuration Capture" on page 72
- 2. Export the created IBM configuration data into the SCCM DCM Server. For details, see "Exporting **configuration items** to the IBM Configuration Pack .cab File" on page 46 and "Importing configuration data to DCM" on page 49.
- **3**. Assign and evaluate IBM configuration data in the SCCM Client. For details, see "Assigning the Baseline to a collection" on page 63 and "Evaluating the Baseline on the Endpoint" on page 65.

Running IBM Configuration Pack Editor

You can click the IBM Configuration Pack Editor shortcut from Start Menu to launch IBM Configuration Pack Editor.

If License Entitlement has not been activated on the IBM System Configuration Server, the IBM Configuration Pack Editor will present a message box to remind you to activate License Entitlement.



Figure 7. No License dialog box

The IBM Configuration Pack Editor presents the following window:

IBM Configuration Pack Editor				
<u>File Import Export H</u> elp				
Meme Setting Collections IBM IMM Settings UEFI Setting Collection for Web Si IBM Setting Configuration Items M Configuration Item	IBM Configuration The IBM Configuration Pack in Microsoft Desired Configu	Pack Editor Editor helps you create and manage Iration Manager (DCM).	configu	iration data that you can export for use
Configuration Item A	Getting Started When working in IBM Configuration Pac the collections into configuration items. You can then export the configuration ite	k Editor, you first create the desired fir ms for use in Microsoft Desired Confi	mware iguratic	setting collection and then group
	Setting Collection List <u>Create Setting Collection</u> <u>View Setting Collection</u>	Configuration Items Create Configuration Item View Configuration Item	•	Export to Configuration Pack Export Configuration Item to Configuration Pack Cab File
<				

Figure 8. IBM Configuration Pack Editor main window

The left navigation pane of the window contains the following items:

- Home tree
- Setting Collections tree
- configuration items tree

Home tree

The Home page provides three sequential areas to guide you in getting started with IBM Configuration Pack Editor:

- Setting Collection List
- configuration items
- Export to IBM Configuration Pack

Setting Collection List Box

This box contains two links: Create Setting Collection, and View Setting Collection.

- Clicking the Create Setting Collection link will present a wizard to help you create an IMM/uEFI Setting Collection.
- Clicking the View Setting Collection link will display the Setting Collections Tree item, which will allow you to view the existing Setting Collections.

Create Setting Collection

1. Type a name and description for the Setting Collection, and click Next.

Note: The Name text box is required, but the description is optional.

IBE Configuration Pack Editor - Create Setting Collection	×
General Information Enter a name and (optional) description for your new configuration item and click "Next" to continue.	IBM. Step 1/3
Name:	
Description:	
< Back Next > Finish	Cancel

Figure 9. General Information window

2. Select a setting type for the new Setting Collection. This version supports scopes IMM and uEFI.

Note: The setting type cannot be modified after it has been created.

둸 IBM Configuration Pack Editor - Create Setting Collection	\sim
Setting Collection Information	IBM.
Select a setting type and then click "Next".	Step 2/3
Setting Type:	
IMM 💌	
IMM UEFI	
< <u>B</u> ack <u>N</u> ext > <u>Finish</u>	Cancel

Figure 10. Setting Collection Information window

3. Click Next. The Property Thresholds page appears.

Property Thresholds IEM. Click "Add" to add properties, "Modify" to modify properties, or "Remove" to remove a step 3/3 Step 3/3 Add Modify Remove Property Name Comparator Expected Value Severity Description
Add Modify Remove Add Modify Remove Property Name Comparator Expected Value Severity
Add Modify Remove Property Name Comparator Expected Value Severity Description
Property Name Comparator Expected Value Severity Description
< <u>B</u> ack <u>N</u> ext > <u>E</u> inish <u>C</u> ancel

Figure 11. Property Thresholds page

4. Click **Add** to add a new property threshold. The Setting Editor window appears.

BIB∎ Configur	ation Pack Editor - Setting Editor	×
Select the property property, type it in the	that you wish to monitor for compliance. If the property list does not include the desired he Property Name field.	
Property Name:		
Description:	IMM.PowerRestorePolicy IMM.CIMOverHTTPPort IMM.CIMOverHTTPSPort IMM.CIMOverHTTPSPort IMM.HTTPPort IMM.SSLPort IMM.TelnetPort IMM.TelnetSMASHPort IMM.SSHPort IMM.SSHPort	
Comparator:	Equals Expected Value:	~
Severity:	Information	
Selection Summar When the prop Otherwise, the	y: perty "Equals", the property is compliant on the endpoint. a property is non-compliant and returns a severity of "Information". OK Cancel Apply	

Figure 12. Setting Editor window

- 5. Complete the following fields:
 - **Property Name**: Select the specific IMM or UEFI setting (depending on the Setting Type selected in the Selecting Collection Information window previously).
 - **Comparator**: Each property name in the drop-down list has an associated return type, such as String, Integer, Version and Data Time, which requires you to select a comparator from the drop-down menu as follows:

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 non-compliant.
	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.
	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 Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.

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 non-compliant.
	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 non-compliant.
	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 non-compliant.
	Greater	If the evaluation property is greater than the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	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 non-compliant.

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 non-compliant.
	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 non-compliant.
	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 non-compliant.
	Greater	If the evaluation property is greater than the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	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 non-compliant.

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 non-compliant.
	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 non-compliant.
	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 non-compliant.
	Greater	If the evaluation property is greater than the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	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 non-compliant.

Table 1. Comparators by return type (continued)

• **Severity**: Select one of three levels: Information, Warning, and Error. When the Setting is non-compliant with the expected value on the endpoint, the Setting will return the selected severity.

As you set the settings, the Selection Summary will auto fill the corresponding property, value, comparator and severity.

Note: You can type a property that does not exist in the property support list, but IBM Configuration Pack Editor will assume the property is a String type, and that means the Comparator will just list "Equals," "Not Equals," "Contains" and "One Of." You will still need to type an expected value for the property.

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

6. Click **Apply** when you are finished adding the new property threshold.

operty Thresholds				IBN
ck "Add" to add properties, "Moo perty, Then click "Finish"	lify" to modify prope	rties, or "Remove" to	remove a	Step 3/
Add Modify	Remove			·
Property Name	Comparator	Expected Value	Severity	Description
IMM.BasicAdapterConfigPriv IMM.HTTPPort IMM.RemotePowerPriv IMM.HTTPPort	Equals Less or Equals Contains Less	Yes 80 Yes 80	Warning Information Error Error	Modify "Adapte Configure the Modify "Remo Configure the
<]	101			3
	< Ba	ck Next>	Finish	Cancel

Figure 13. Property Thresholds window with list items

7. To modify a setting, select it and click **Modify**, or just double click the line item. To delete a setting, select one or more line items and click **Remove**.

View Setting Collection

About this task

After clicking **View Setting Collection**, the Setting Collection List will appear in the right pane.

🚡 IB I Configuration Pack Editor				×
<u>File</u> Import <u>E</u> xport <u>H</u> elp				
	Setting Collection List A Setting Collection represents a der New Setting <u>Collection</u>	sired object, setti	ng, or value on a server.	
	Name	Setting Type	Description	
Configuration Item A	IBM IMM Settings uEFI Setting Collection for Web SI IMM Setting	IMM UEFI IMM	IBM IMM Settings Description uEFI Setting Collection Description	
< · · · · · · · · · · · · · · · · · · ·				

Figure 14. Setting Collection List window

- To create a new Setting Collection, right-click the Setting Collections tree item or click New Setting Collection.
- To delete Setting Collections, select one or more items in the list and click **Delete** or press the Delete key.
- Select a Setting Collection to view its properties or edit it.

IBE Configuration Pack Edito		
<u>File Import Export H</u> elp		
Eile Import Export Help	Setting Collection List A Setting Collection represents a desired object, setting, or value on a server. New Setting Collection Delete Name Setting Collection for Web Si UEF1 Setting Collection IMM Details for: IBM IMM Settings General Property Thresholds Modify Name: IBM IMM Settings Setting Type: IMM Description: IBM IMM Settings Setting Type: IMM Description: IBM IMM Settings	
(<u></u>

Figure 15. Setting Collection properties

Editing a Setting Collection: About this task

To edit a Setting Collection:

1. Click **Modify** on the General tab. The General Information window appears.

SIB∎ Configuration Pack	Editor -	- Genera	l Info	rmation		×
Name:						
IBM IMM Settings						
Description:						
IBM IMM Settings Description						
		0 <u>K</u>		<u>C</u> ancel	Apply	

Figure 16. General Information window

- 2. Edit the **Name** and **Description** fields for this Setting Collection. For this Collection, but you would not be able to modify the setting type after being created.
- **3**. Click the Property Thresholds tab. A list of existing property thresholds for the selected Setting Collection appears in the grid.

Figure 17. Figure 17. Property Thresholds tab

- 4. Click:
 - Add to add settings to the property thresholds.
 - Modify to edit a selected property threshold.
 - Remove to delete selected property thresholds.

Note: When a Setting Collection has been used in other **configuration items**, if deleted it will be in turn removed from those **configuration items**.

Duplicating a Setting Collection: About this task

To duplicate a Setting Collection, you can right click any Setting Collection in the Setting Collection List view or in the Setting Collections Tree view.

Elle mont Expert Help Image: Setting Collection for Web St Setting Collection represents a desired object, setting, or value on a server. Image: Setting Collection from terms Mex Setting Delete Image: Setting Collection from terms New Setting Collection Delete Image: Setting Collection from terms New Setting Collection Delete Image: Setting Collection from terms New Setting Collection Delete Image: Setting Collection from terms New Setting Collection Delete Image: Setting Collection from terms New Setting Collection Delete Image: Setting Collection from terms New Setting Collection Delete Image: Setting Collection from terms New Setting Collection Delete Image: Setting Collection from terms New Setting Collection Delete Image: Setting Collection from terms New Setting Collection Delete Image: Setting Collection from terms New Setting Collection Delete Image: Setting Collection from terms New Setting Collection Delete Image: Setting Collection for terms New Setting Collection Delete Image: Setting Collection for terms New Set	
Image: Setting Collections Setting Collection List A Setting Collection for Web St A Setting Collection represents a desired object, setting, or value on a server. Image: Setting Collection for Web St New Setting Collection Image: Setting Collection for Web St New Setting Collection Image: Setting Collection for Web St New Setting Collection Image: Setting Collection for Web St New Setting Collection Image: Setting Collection for Web St New Setting Collection Image: Setting Collection for Web St New Setting Collection Image: Setting Collection for Web St New Setting Collection Image: Setting Collection for Web St New Setting Collection Image: Setting Collection for Web St New Setting Collection Image: Setting Collection for Web St New Setting Collection Image: Setting Collection for Web St New Setting Collection Image: Setting Collection for Web St New Setting Collection Image: Setting Collection for Web St Poglicecte Image: Setting Collection for Web St	Eile Import Export Help
Details for: IBM IMM Settings General Property Thresholds Add Modify Property Name Comparator Expected Value Severity Description IMM.BasicAdapterConfigPriv Equals Yes Warning Modify *Xes IMM.HTTPPort Less or Equals NMM.HTTPPort Less MM.HTTPPort Less MM.HTTPPort Less MM.HTTPPort Less Version K	Home Setting Collections IBM IMM Settings IEFI Setting Collection for Web Si IBM Configuration Items Configuration Item A Setting Collection List A setting Collection represents a desired object, setting, or value on a server. New Setting Collection Delete Name Setting Type Description IBM IMM Settings UEFI Setting Collection Description IBM IMM Settings Description IBM IMM Settings Description IBM IMM Settings Description <
	Details for: IBM IMM Settings General Property Thresholds Add Modify Property Name Comparator Expected Value Severity Description IMM.Basic/dapterConfigPriv Equals Yes Warning Modify "Adapter Configuration IMM.HTTPPort Less or Equals NMM.RemotePowerPriv Contains Yes Error MMM.HTTPPort Less 80 Error Configure the IMM port assign

Figure 18. Duplicate function

The Duplication Dialog appears.

New Name:	IBM IMM Settings		
		ок	Cancel

Figure 19. Duplication Dialog

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 different name for the duplicate Setting Collection.

Note: If you duplicate a Setting Collection that is used in other **configuration items**, the new duplicate Setting Collection that is created will not be referred to by these **configuration items**.

configuration items list box

The configuration items Box is composed of the following link buttons:

- Create configuration item link
- View configuration item link

Creating a configuration item

1. Click **Create configuration item**. A wizard appears to guide you through creating a **configuration item**.

🚡 IBE Configuration Pack Editor - Create Configuration Item	
General Information Enter a name and (optional) description for your new configuration item and click "Next" to continue.	IBM Step 1/3
Name:	
IBM Configuration Item	
Description:	
IBM Configuration Item Include Setting Collections: IBM IMM Settings uEFI Setting Collection for Web Site	<u>()</u>
< <u>B</u> ack <u>N</u> ext > <u>Einish</u>	<u>C</u> ancel

Figure 20. General Information window

2. Type a name and description for the configuration item.

Note: The Name field is required, but the Description field is optional.

3. Click Next. The IMM Information window appears.

The configuration rack	Laitor Create Configuration fice	
MM Information		IBM
iter the user ID and password, and ick "Next" to continue.	specify the location of the asulexe file on the endpoint.	Step 2/
IMM Information		
UserID		
UserID		
Password		

Confirm Password		

Specify the location of the asu.ex	e file on the endpoint	
C:\IBM\ASU\Win32\asu.exe		
		Concel

Figure 21. IMM Information window

4. Enter a UserID and Password for IMM on the target server.

Note: The User ID and Password are not required if the default account is used on target IMM. IBM Configuration Pack Editor will not check whether the User ID and Password are correct.

5. In the field labeled **Specify the location of the asu.exe file on endpoint**, enter an absolute path to asu.exe on the target server. The collection's settings will use this path to invoke asu.exe to detect the settings. If you do not type the correct path, the setting will attempt to detect asu.exe as specified in this dialog box.

	🗟 IBN Configuration Pack Editor - Notification 🛛 🔀	
UserID UserID	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".	
Passwor	1. The asu.exe path is defined in the Location field.	
Confirm F	2. Asu.exe is located at %SystemPartition%\IBM_Support\ASU\asu64.exe (for 64-bit OS) or %SystemPartition%\IBM_Support\ASU\asu.exe (for 32-bit OS).	
specify the	3. The location is defined in the registry key as follows: HKEY_LOCAL_MACHINE\Software\IBM\ASU\Location (for 32-bit OS) or HKEY_LOCAL_MACHINE\Software\Wow6432Node\IBM\ASU\Location (for 64-bit OS).	

Figure 22. Asu.exe detection notification

6. Click Next. The configuration items window appears.

IBM Configurati	on Pack Editor - Create Configuration Item	
Configuration Ite dd the setting collection	ems is that you wish to include in this configuration item.	IBM Step 3/3
Add Rem	ove	
Name	Setting Type Description	
<]		
	< Back Next > Einish	Cancel

Figure 23. Add Setting Collections window

7. Use the **Add** button to add existing Setting Collections into the **configuration item**. The Add Setting Collections window appears.

elect the setting collections that	Add Setti you wish to add to	this configuration item.	
Name	Setting Type	Description	1
BM IMM Settings	IMM IMM	IBM IMM Settings Description Type your description	
UEFI Setting Collection for	UEFI	uEFI Setting Collection	

Figure 24. Setting Collections selection window

8. Select the check boxes that correspond to the Setting Collections you want to add to the **configuration item**, and click **OK**.

Note: One Setting Collection can be used in more than one **configuration item**.
onfiguration Item	e		7755
the setting collections th	ə ət you wish to include in th	is configuration item	TRW
are searing conections ar	at you wish to moldue in th	is computation item.	Step 3/
Add Remove			
Name	Setting Type	Description	
BM IMM Settings	IMM	IBM IMM Settings Description	
IEFI Setting Collection for	Web Si UEFI	uEFI Setting Collection	
		101.	
			•
1			•
2]		100	
<u></u>	- Rad		Cancel

Figure 25. Add Setting Collections window with list items

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

Note: Clicking **Remove** will delete the selected Setting Collections from the current **configuration item**, but it will not delete Setting Collections from this list view.

10. Click Finish.

Viewing a configuration item

1. Click View configuration item. The configuration items window appears.

BI Configuration Pack Editor		
<u>Eile Import Export H</u> elp		
Arme Arme Arme Armonic Setting Collections BIM IMM Settings Armonic Setting Collection for Web Si IMM Setting Configuration Items	Configuration Items A configuration item is a grouping of sett New Configuration Item	ing collections. Click "New Configuration Item" to create a new Configuration Item.
- Z IBM Configuration Item	Name	Description
Configuration Item A	Configuration Item A	IBM Configuration Item A Description

Figure 26. configuration items window

2. To create a new **configuration item**, right-click the Setting Collections tree item or click **New configuration item**.

To delete **configuration items**, select one or more items in the list and click **Delete**.

Select a **configuration item** to view its properties or edit it.

Figure 27. configuration item properties

Editing a configuration item About this task

To edit a **configuration item**:

1. Click **Modify** on the General tab. The General Information window appears.

📙 IBM Configuration Pack Editor - General Information	
Name:	
IBM Configuration Item	
Description:	
IBM Configuration Item Include Setting Collections: IBM IMM Settings uEFI Setting Collection for Web Site	
	N
O <u>K</u> <u>C</u> ancel A	oply

Figure 28. configuration item: General Information window

- 2. Edit the Name and Description fields for this configuration item.
- **3**. Click the IMM Account tab.

BIB Configuration Pack Editor		
<u>Eile Import Export H</u> elp		
> IBI Configuration Pack Editor Eile Import Export Help → Home → Setting Collections → IBM IMM Settings → uEFI Setting Collection for Web Si → IMM Setting → UFI Setting Collection for Web Si → IBM Configuration Items → IBM Configuration Item A	Configuration Items A configuration item is a grouping of so New Configuration Item Name IBM Configuration Item Configuration Item A Details for: IBM Configuration Ite General IMM Account Setting Colles Modify IMM Information Licet D	etting collections. Click "New Configuration Item" to create a new Configuration Item.
(3)	UserID Password ******** Confirm Password ******** Specify the location of the asu,exe fi	le on the endpoint

Figure 29. IMM Account tab

4. Click Modify to enter a UserID and Password for IMM on the target server.

Note: IBM Configuration Pack Editor will not check whether the User ID and Password are correct. It is recommended that you use the default account to eliminate any errors.

5. In the field labeled **Specify the location of the asu.exe file on endpoint**, enter an absolute path to asu.exe on the target server. The collection's settings will use this path to invoke asu.exe to detect the settings. If you don't type the correct path, the setting will attempt to detect asu.exe as specified in this dialog box.

Iser	
	The Configuration Item will search for asulexe (v3.60 or above) on the endpoint Ensure that at least one of these conditions is met for validation
Pass	or the Configuration Item will return as "Not Detected".
	1. The asu.exe path is defined in the Location field.
Confi	2. Asu.exe is located at %SystemPartition%\IBM_Support\ASU\asu64.exe
	(for 64-bit OS) or %SystemPartition%\IBM_Support\ASU\asu.exe (for 32-bit OS).
	3. The location is defined in the registry key as follows:
Specif	HKEY_LOCAL_MACHINE\Software\IBM\ASU\Location (for 32-bit OS) or HKEY_LOCAL_MACHINE\Software\Wow6432Node\IBM\ASU\Location (for 64-bit OS).

Figure 30. Asu.exe detection notification dialog

6. Click the Setting Collections tab.

IBN Configuration Pack Editor			
<u>Eile Import Export H</u> elp			
> IBI Configuration Pack Editor Elle Import Export Help → Home Home Home → Setting Collections Home Home → IBM IMM Settings Help Help → IBM IMM Settings Help Help → IBM MM Setting Help Help → IBM Configuration Items Help Help → IBM Configuration Item Help Help → Configuration Item A Help Help	Configuration Items A configuration item is a grouping of settin New Configuration item Details for: IBM Configuration Item A Details for: IBM Configuration Item General IMM Account Setting Collection Add Remove Name IBM MM Settings IMM IDEFI Setting Collection for Web Si UEFI	ng collections. Click "New Configuration Item" to create a new Config elete Description IBM Configuration ItemInclude Setting Collections:I IBM Configuration Item A Description IBM Configuration Item A Description	uration Item.
< · · · · · · · · · · · · · · · · · · ·			

Figure 31. Setting Collections tab

7. Use the **Add** button to add existing Setting Collections into the **configuration item**. The Add Setting Collections window appears.

IBM Configuration Pack	Editor – Ad	d Setting Collections	X
	Add Sett	ng Collections	
Select the setting collections that yo	ou wish to add to	this configuration item.	
Name	Setting Type	Description	
IBM IMM Settings	IMM	IBM IMM Settings Description	
IMM Setting Collection1	IMM	Type your description	
✓ uEFI Setting Collection for	UEFI	uEFI Setting Collection	
Select <u>A</u> ll		0 <u>K</u> <u>C</u> ancel	A <u>p</u> ply

Figure 32. Add Setting Collections selection window

8. Select the check boxes that correspond to the Setting Collections you want to add to the **configuration item**, and click **OK**.

Note: One Setting Collection can be used in more than one configuration item.

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

Note: Clicking **Remove** will delete the selected Setting Collections from the current **configuration item**, but it will not delete the Setting Collections from other **configuration item**s.

Duplicating a configuration item About this task

To duplicate a **configuration item**, you can right click any **configuration item** in the **configuration item** List view or the **configuration item** Tree view.

Elle Import Export Help Home Setting Collections IBM IMM Settings A configuration Items Configuration Items Configuration Item Delete Name Details for: IBM Configuration Item Details for: IBM Configuration Item Details for: IBM Configuration Item General IMM Account Setting Type Description IBM IMM Settings IMM Settings IMM Settings IMM Settings	IBE Configuration Pack Editor	
Home Setting Collections IBM IMM Settings A configuration Items IBM Setting New Configuration Item IBM Configuration Items New Configuration Item IBM Configuration Item Description IBM Configuration Item A IBM Configuration Item A IBM Configuration Item A Description IBM Configuration Item A IBM Configuration Item A IBM Configuration	<u>File Import Export H</u> elp	
uEFI Setting Collection for Web Si UEFI uEFI Setting Collection	IBI Configuration Pack Editor Elle Import Export Help → Home → Setting Collections → IBM IMM Settings → uEFI Setting Collection for Web Sriend → MM Setting → Configuration Items → IBM Configuration Item A	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 IBM Configuration Item IBM Configuration ItemInclude Setting Collections Configuration Item IBM Configuration Item A Description Details for: IBM Configuration Item General IMM Account Setting Type Description IBM IMM Settings IMM UEFI Setting Collection for Web Si UEFI
	K	

Figure 33. Duplicate configuration items function

The Duplication Dialog appears.

New Name:	IBM Configuration Item	
		K Cancel

Figure 34. configuration item Duplication Dialog

The name of the duplicate **configuration item** can be the same name as an existing **configuration item**; however, it is recommended that you use a different name for the duplicate **configuration item**.

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

Deleting a configuration item About this task

To delete a **configuration item**, select it in the list view and click **Delete**, or right-click the selected **configuration item** and select **Delete**.

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

Exporting configuration data to a Configuration Description File About this task

You can export **configuration items** and their children Setting Collections into the Configuration Description File (.xml). This enables administrators to share and author their configuration data.

1. From the pull-down menu, select **Export -> To Configuration File**.

BIBE Configuration Pack Editor	
Eile Import Export Help	
Home To Configuration Elle Good Setting To Configuration Pack Good Setting Hom MMM Setting UEFI Setting Collection for Web Sr Good MMM Setting	A 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
 Karama Configuration Items Karama IBM Configuration Item Configuration Item A 	Name Description IBM Configuration Item IBM Configuration ItemInclude Setting Collections:I Configuration Item A IBM Configuration Item A Description
	Details for: IBM Configuration Item General IMM Account Setting Collections Add
	Name Setting Type Description IBM IMM Settings IMM IBM IMM Settings Description uEFI Setting Collection for Web Si UEFI uEFI Setting Collection

Figure 35. Export -> To Configuration File menu item

The Export to Configuration Description (.xml) window appears.

B IBM 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 IBM Configuration Pack Editor.

Name	Description	
IBM Configuration Item	IBM Configuration ItemInclude Setting Col	lections:I
Configuration Item A	IBM Configuration Item A Description	
		1.1

Figure 36. Export to Configuration Description (.xml) window

- 2. Select the check boxes that correspond to the configuration items that you want to export. The child Setting Collections of the selected configuration items will also be exported automatically.
- 3. Click **Continue**. The file navigation window appears.

X

Export to configuration p	oack						×
🚫 🗖 Desktop 🗸			•	Search			9
Organize 👻 📗 Views	👻 📑 New Folder					(0
Favorite Links Desktop Computer Documents Pictures Music Recently Changed Searches Public	Name Administrator	2 -	Size 🗸	Type Cabinet File Cabinet File	 ▼ Date modified 6/10/2011 10 4/28/2011 4: 	1 +	Att AN A
Folders File name: Config Save as type: Config	Juration guration Pack (*.cab)						•
Hide Folders					Save Ca	ancel	

Figure 37. Export to Configuration Description file navigation window

- 4. Enter a name for the Configuration Description .xml file and click **OK**.
- 5. A dialog box appears indicating the export was successful. Click **OK**.

varne	Description					
 IBM Configuration Item Configuration Item A 	IBM Configuration ItemInclude Setting Collections:I IBM Configuration Item A Description					
IBM (Exp	Configuration Pack Editor - Information					
	OK					
10-10-10-10-10-10-10-10-10-10-10-10-10-1						

Figure 38. Export Succeeded dialog box

Importing the Configuration Description xml file

1. From the pull-down menu, select **Import -> Configuration File**.

BIB Configuration Pack Editor			_ 🗆 🛛
<u>File</u> Import Export Help			
IBI Configuration Pack Editor Elle Import Export Help Configuration Elle Configuration Elle BIM IMM Settings BIM IMM Settings UEFI Setting Collection for Web Si BIM Setting Configuration Items ∠ IBM Configuration Item ∠ Configuration Item A ∠ Configuration Item A	Configuration Items A configuration item is a grouping of s New Configuration Item Name IBM Configuration Item Configuration Item A Details for: IBM Configuration Ite General IMM Account Setting Colle	em	n Item.
	Add Remove	Setting Type Description IMM IBM IMM Settings Description UEF1 uEFI Setting Collection	
< · · · · · · · · · · · · · · · · · · ·			

Figure 39. Import -> Configuration File menu item

The file navigation window appears.

IBM Configuration Pack F	ditor - Import a Con	figura	tion XML	file					x
🔘 🗖 Desktop 🔻				• [Search	_			9
Organize ▼ 11 Views	👻 📑 New Folder								0
Favorite Links Desktop Computer Documents Pictures Music Recently Changed Searches Public	Name A administrator Public Computer Network Configuration	x	Size 15 K	•	Type		Date modified	5 PM	Att
Folders •	<u>•</u>]				Config Of	jurat	tion XML (*xml)		ار 5 ا

Figure 40. Import a Configuration XML file navigation window

2. Select a Configuration Description xml file to import and click **OK**.



Figure 41. Confirm Replace Setting Collection window

In the IBM Configuration Pack Editor, every Setting Collection and **configuration item** has a unique identifier. When the same ID has been used even if their names are different, the Editor will present a dialog box to confirm whether 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 or is not the same as the previous Setting Collection's content.

Checking your license validation status

1. From the pull-down menu, select **Help -> License**.



Figure 42. Help -> License menu item

2. The License Entitlement window appears. Click **OK** to exit the window when finished.



Figure 43. License Entitlement window

Export to IBM Configuration Pack list box

The Export to IBM Configuration Pack Box is composed of the Export **configuration item** to IBM Configuration Pack Cab File link.

The Export **configuration item** to IBM Configuration Pack Cab File function can export multiple **configuration items** and their children Setting Collections to a .cab file. The .cab file is named IBM Configuration Pack, which can be imported into the SCCM Server.

Exporting configuration items to the IBM Configuration Pack .cab File

1. From the main IBM Configuration Pack Editor window, click **Export configuration item to Configuration Pack Cab File**. The Export to IBM Configuration Pack (.cab) window appears.

BIBM Configuration Pack Editor - Export to Configuration Pack (.cab)

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.

X

Name	Version	Description					
IBM Configuration Item	2	IBM Configuration ItemInclude Setting Collections: I					
Configuration Item A	2	IBM Configuration Item A Description					
Tourse all							

Figure 44. Export to IBM Configuration Pack window

2. Select the check boxes corresponding to the **configuration items** you want to export.

Note: The version of a **configuration item** is an internal variable that cannot be modified directly. SCCM DCM will use this version variable to evaluate whether a **configuration item** needs to upgrade.

When you update configuration data in Configuration Manager 2007, previous versions are overwritten so that clients will always evaluate using the latest version.

For more details on how to manage **configuration items** version refer to the following web link: http://technet.microsoft.com/en-us/library/bb632925.aspx

3. Click **Continue**. The Export to IBM Configuration Pack file navigation window appears.

Export to configuration p	ack								×
OO Desktop +				-	Search				9
Organize 👻 📗 Views	▼ 📑 New Folder								0
Favorite Links Desktop Computer Documents Pictures Music Recently Changed Searches Public	Name A administrator Public Computer Network configuration sys	 	Size	5 KB 3 KB	Type Cabinet File Cabinet File	-	Date modifi 6/10/2011 4/28/2011	ied +	At AN A
Folders File name: Config Save as type: Config	uration uration Pack (*.cab)								•
Hide Folders						Save		Cancel	

Figure 45. Export to IBM Configuration Pack window

Enter a name for the .cab file and click OK.
 A dialog appears indicating that the export succeeded.

elect the configuration item or	items that you wish to	export to a CAB file. You can then import the CAB file into					
e SCCM Console as a DCM (Configuration Pack.						
Name	Version	Description					
IBM Configuration Item	2	IBM Configuration ItemInclude Setting Collections:I					
Configuration Item A	2 IBM Configuration Item A Description						
	IBM Configuration Pa	rk Editor - Information					
	Dri Colliguration Pa						
	Export succeeded.						
		OK					

Figure 46. Export Succeeded dialog box

Applying IBM Configuration Pack to SCCM Console

Importing configuration data to DCM

1. Open the SCCM Console and expand Desired Configuration Management. Right click Configuration Baselines or **configuration items**, and select **Import configuration data**.



Figure 47. Import Configuration Window function

2. Click Add to select the exported IBM Configuration Pack .cab file.

Import Configuration Dat	ta Wizard	State of the local division of the local div					2
Choose Files							
Choose Files Summary Progress Confirmation	Import configura from other config Files containing c	tion items and configuration b juration data sources. onfiguration items or configur	aselines fr ation base	om best practic	es Configura	tion Packs, and	
	Name	Date Modified	Size			- 1	
		mere are no items to s	now in th	IIS VIEW.		Add Delete	
		< Previous	N N	ext >	Finish	Cancel	

Figure 48. Add exported IBM Configuration Pack .cab file

3. Select the IBM Configuration Pack and click **Open** to import it.

Open					×
Computer	✓ New Volume (F:) HO	G 🔹 👻 🚺	Search		- 2
🕘 Organize 👻 📗 Views	▼ 📑 New Folder				0
Favorite Links	Name 🔺	▼ Date modified ▼	Туре	▼ Size	→ Tag
Tesktop	asu Configuration	4/27/2011 2:43 PM 5/5/2011 4:00 PM	File Folder Cabinet File		3 KB
Computer Documents Pictures Music Recently Changed Searches Public	Sys	4/28/2011 4:55 PM	Cabinet File		3 KB
Folders A File <u>n</u> ame:	configuration		Cab files (*.ca	ab)	

Figure 49. Selecting the exported .cab file

4. A **Skip Authenticode signature check?** dialog appears. Click **Yes** to skip the signature checking.

Figure 50. Skip Authenticode Signature Check dialog box

5. Click Next to import the IBM Configuration Pack .cab file.

Figure 51. Importing the selected .cab file

6. Your **configuration item**s appear in the IBM Configuration Pack tree. Click **Next**.

Figure 52. Imported configuration items

7. A message appears in the wizard window indicating that you have imported configuration data successfully. Click **Close** to exit this wizard.

Import Configuration Dat	ta Wizard	×
Completing th	ne 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] IBM Configuration Item [Success]	
	To close this wizard, click Close.	
	< Previous Next > Finish Close	

Figure 53. Successful completion window

8. Right click the **configuration items** node and select **Refresh**. The imported **configuration items** appear in the window.

E Configuration Manager Console					
Eile Action View Window Help					<u>_8</u> ×
🗢 🏟 🖄 🖬 🚺 🖬					
System Center Configuration Manager	Configuration Items 2 items found				Actions
Site Database (XYZ - IBM-8RS37JSWCAT, 1) Site Management					Configuration Items
E 🙀 Computer Management			<u> </u>	no Now <u>Clear</u>	🧯 Import Configuration Data
			1		😵 New 🕨
Conticting Records El Software Distribution	Name	Application	CI Version	Content Version Categorie	Give Feedback
🗄 👸 Software Updates	BM Configuration Item	Application	1	1	View
🕀 🎯 Operating System Deployment					View P
Asset Intelligence Software Metering					New Window from Here
🕀 🗐 Reporting					C Refresh
Desired Configuration Management					👔 Help
Configuration Items					
🗉 🕵 Queries					
Mobile Device Management Mobile Device Protection					
🗄 🙀 Security Rights					
🛨 📑 Tools					
	4			Þ	

Figure 54. SCCM with imported configuration items

Note: The imported **configuration items** may have a "Lock" status. The Lock status is due to the following reasons:

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

Viewing configuration item properties

 Double click a configuration item to view its properties dialog. Under the Settings tab, the IBM Setting Collections are under the Settings group.
 You can called any one setting to see the setting validation.

You can select any one setting to see the setting validation.

Seneral Objects Settings Detection Method Applicability Relationships Security Manage the settings that you want to include for this configuration item. The setting data can be obtained from sources such as Active Directory Domain Services, the registry, queries, and scripts. Look for setting: Image: Third Ngw Image: Data Type Validation Settings Name Data Type Validation S IMM.BasicAdapterConfigPriv String E-Settings IMM.HTTPPort Integer Less than or S IMM.RemotePowerPriv String Contains Yes S	1 Config	juration	Item Pro	opertie	15 (c)			
Look for setting: Find Now Settings UEFI Setting Collection f IBM IMM Settings All settings Search Results Name Data Type Validation S IMM.BasicAdapterConfigPriv String Equals Yes S IMM.HTTPPort Integer Less than or S IMM.RemotePowerPriv String Contains Yes IMM.RemotePowerPriv String Contains Yes IMM.RemotePowerPriv String Contains Yes	eneral Manage The set	Objects e the setti tting data /, queries	Settings ings that y can be ob	Detection Detection Detection Detection Detection	tion Method Applicability R It to include for this configurati from sources such as Active Dir	elationships on item. rectory Doma	Security	
Settings Name Data Type Validation S UEFI Setting Collection f IMM.BasicAdapterConfigPriv String Equals Yes S IBM IMM Settings All settings IMM.HTTPPort Integer Less than or S Search Results IMM.RemotePowerPriv String Contains Yes S	Look	for setting	g:			•	Find Now	
<u> </u>	Se	ettings uEFI Se IBM IMM All settir earch Resu	tting Colle 1 Settings ngs .lts	tion f	Name IMM.BasicAdapterConfigPriv IMM.HTTPPort IMM.HTTPPort IMM.RemotePowerPriv	Data Type String Integer Integer String	Validation Equals Yes Less than or Less than or Contains Yes	Se Sa Sa Sa
Ne <u>w</u> ▼ Edit Validation Remove	I∎ Ne <u>w</u> ▼	/ <u>E</u> dit	Validation	► Ren	nove			Þ

Figure 55. Settings tab

2. On the Detection Method tab, IBM Configuration Pack Editor defines the detection method for every **configuration item**. This detection method will check whether asu.exe exists on the endpoint. If it does not, the **configuration item** will return the "Not Detected" state, and the children Settings Group will not continue to be validated.

4 Configuration Item Pro	operties				
General Objects Settings	Detection Method	Applicability	Relationsh	ips Security	1
Specify how to determine v	whether this applicat	ion is installed	on a client.		
C Always assume applica C Use Windows Installer	ition is installed (MSI) detection				
Product code:					Open
Version:					
 This application is Use custom script 	installed per-user				
VBScript				_	Open
set fso=CreateObjec CheckASULocation()	ct("Scripting.FileSyst	emObject")			Clear
Sub CheckASULocati	on()				
Dim asuName				<u> </u>	
	0		Cancel	Applu	Help

Figure 56. Detection Method tab

Creating a baseline

About this task

You will need to create a Baseline that contains all of **configuration items** that you want to validate on endpoints.

Note: The **configuration item**s cannot be assigned to the endpoints without a Baseline.

- 1. In the SCCM console, expand the Desired Configuration Management node.
- 2. Right-click Configuration Baselines and select New Configuration Baseline.

Configuration Manager Console		-0
File Action View Window Help	,	
Image Action View Vintow Heip Image Action Image Image Image Image <t< th=""><th>WCAT, : Look for: In All Columns Find Now Clear Name CI Version Content Version Categories There are no items to show in this view.</th><th>Actions Configuration Baselines New Configuration Baseline Import Configuration Data</th></t<>	WCAT, : Look for: In All Columns Find Now Clear Name CI Version Content Version Categories There are no items to show in this view.	Actions Configuration Baselines New Configuration Baseline Import Configuration Data
Configuration System Deployme Asset Intelligence Asset Intelligence Asset Intelligence Asset Intelligence Configuration Mana Configuration Baseline Configuration Items Access Protection System Status Security Rights Tools	ent gement Inport Configuration Baseline Inport Configuration Data New Folder New Search Folder Give Feedback View New Window from Here Refresh Help	 New Search Folder Give Feedback View New Window from Here Refresh Help
1	• I	

Figure 57. New Configuration Baseline function

The Create Configuration Baseline Wizard appears.

Figure 58. Identification window

- 3. Enter a name and, optionally, a description for your Baseline. Click Next.
- 4. Click the **applications and general** link to select the **configuration item**s that you want to validate.

Create Configuration Baseline	Wizard	×
Set Configuration Ba	aseline 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	Rules:	
Confirmation	One of the following operating system configuration items must be present and properly configured These applications and general configuration items are required and must be properly configured: If these optional application configuration items are detected, they must be properly configured: These software updates must be present: These application configuration items must not be present: These configuration baselines must also be validated: Delete	
	<pre> <u> Previous Next > Einish Cancel </u></pre>	

Figure 59. Applications and general link

The Choose configuration items window appears.

ook for:		Eind Now		Clea <u>r</u>
Name	Description	Туре	Config	Categor
Configuration Item A	IBM Configur	Applica Applica	1 1	

Figure 60. Choose configuration items window

5. Select the check boxes that correspond to the Configuration Items you want to validate on endpoints, and click **OK**.

The selected **configuration item**s appear under the **applications and general** link.

Create Configur	ation Baseline Wizard
------------------------	-----------------------

Identification Set Configuration Baseline Ri Summary	Specify rules containing configuration items and configuration baselines to define how compliance will be assessed on client computers.
Progress	Rules:
Confirmation	One of the following operating system configuration items must be present and properly configured These applications and general configuration items are required and must be properly configured Configuration Item A IBM Configuration Item If these optional application configuration items are detected, they must be properly configured: These software updates must be present: These application configuration items must not be present: These configuration baselines must also be validated: Delete

×

Figure 61. Applications and general link with selected configuration items

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

Assigning the Baseline to a collection

1. In the SCCM console, right-click the new Baseline and select **Assign to a Collection**.

Configuration Manager Console		
File Action View Window Help		<u>_18</u>
Image: System Center Configuration Manager System Center Configuration Manager Image: System Center Configuration Management Image: System Center Conficting Records Image: Collections Image: Collections Image: Conficting Records Image: Configuration Records Image: Configuration Management Image: Configuration Management	Configuration Baselines 1 items found Look for: In All Columns Find Now Clear Name CI Version Content Version Categories IM Baseline - 1 Assign to a Collection Export Configuration Data Duplicate Disable Baseline View Xml Definition Manage Categories Manage Categories Categories	Actions Configuration Baselines Import Configuration Baseline Import Configuration Data New Folder New Search Folder Give Feedback View New Window from Here
Configuration Baselines Configuration Items Configuration Items Ourries Veries System Status System Status Socurity Rights Tools	Add Move Items Cut Delete Refresh Properties Help	
	General Rules Relationships Assignments General Rules Relationships Assignments Name: IBM Baseline - 1 Description:	 View Xml Definition Manage Categories Add Move Items Cut Delete Refresh Properties
	Properties: Name Value Type Baseline	Help

Figure 62. Assign to a Collection function

The Assign Configuration Baseline Wizard appears.

Figure 63. Choose Collection window

- 2. In the Choose Collection step, click **Browse** to select a target client collection.
- 3. Click Next.
- 4. Select a schedule for your Baseline validation. You can select a simple schedule or create a custom schedule.

Figure 64. Set Schedule window
5. Click **Finish** to exit the wizard.

Evaluating the Baseline on the Endpoint About this task

The Baseline and its child **configuration items** will be auto evaluated in the custom schedule. But you can advance for evaluation as follows.

- 1. Ensure that the endpoint can be found on the SCCM server, and that you have the SCCM client agent installed. Otherwise, the endpoint won't receive the Baseline from the SCCM server.
- 2. If the endpoint is 32-bit, open **Control Panel -> Configuration Manager**. If the endpoint is 64-bit, open **Control Panel -> View 32-bit Control Panel Items -> Configuration Manager**.



Figure 65. Configuration Manager in Control Panel folder

The Configuration Manager Properties window appears.

3. On the Actions tab, select **Machine Policy Retrieval & Evaluation Cycle** and click **Initiate Action**. A dialog box appears notifying you that the action has been initiated. Click **OK**.

Actions:	our computer.	ie Run ol Advertis.
Branch Distribution Discovery Data Coll File Collection Cycle Hardware Inventory	Point Maintenance Task ection Cycle Cycle	
Software Inventor Software Metering Software Updates User Policy Retrie Windows Installer	The action has been initia complete.	valuation Cycle ted. It may take several minutes to
		ОК

Figure 66. Action Initiated dialog

4. After a few minutes, you can find the Baseline under the Configurations tab. If not, click **Refresh**.

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

Figure 67. Configurations tab

Note: If the Baseline does not appear in the Configuration Baseline List View after few minutes, ensure that your SCCM client agent can be found on SCCM Console, as below.



Figure 68. SCCM Client Agent Status

5. Select the Baseline and click **Evaluate**. After a few minutes, when the **Evaluate** button is enabled again, you can select this Baseline and click **View Report** to check the report.

Numo	Version	Last Evaluati	Complian.	Ev
IBM Baseline - 1	1.00	5/5/2011 5:	Error	ln I

Figure 69. Configurations tab with View Report button enabled

Click **View Report** to check the evaluation report view.

Evaluation Report View

There are some situations where the evaluated setting (Script) will not return any value.

- The endpoint does not have the IMM module.
- The endpoint has the IMM module, but the evaluated setting cannot be found on the endpoint.
- Using the wrong user ID and password to connect the IMM module.
- Asu.exe is not v3.60 or above.
- Evaluation Time Out (5 mins).

Note: If the evaluated setting does not return any value, the SCCM Client agent will deem this setting as non-compliant on the endpoint, and its severity level is Information. The evaluation report cannot specify the causes; you will need to check the logs in Windows Event Viewer to get the details.

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_ScopeId_550a3dbb-8f51-47a7- 86ac- eef6929722ab_this:Setting_afeee205- 85be-4fa3-9782-8de1bf9d0792)) >number(0))		0

Figure 70. Evaluated setting with no value returned

Action View Help					
🔿 🔁 🖬 🚺 🖬					
Event Viewer (Local)	Application 10,659 E	vents (!) New events available			Actions
Custom Views	Level	Date and Time	Source	EA	Applicat
Application	A Warning	6/15/2011 10:56:22 AM	BM Configuration Pack,	v3.0	🧟 On
Security	Warning	6/15/2011 10:56:21 AM	BM Configuration Pack,	v3.0	- opin
Setup	Warning	6/15/2011 10:56:20 AM	BM Configuration Pack,	v3.0	Y Cr
System	🔥 Warning	6/15/2011 10:56:19 AM	BM Configuration Pack,	v3.0	Im
Forwarded Events	Warning	6/15/2011 10:56:18 AM	BM Configuration Pack,	v3.0 🖵	Cle
Applications and Services Logs	1				_ Cicini
Subscriptions	E 1100 ID11.C C	1: D 1 20			Filt
	Event 100, IBIVI Contig	uration Pack, V3.0			Pro
	General Details				000 Ein
	I			_	00
	[Property]: IMM.CI	MOverHTTPPort [Set ACCO	JNT1: NO [Return Co	de]: 40 [Error (Ball Sa
	Could not find sett	ing IMM.CIMOverHTTPPort			Att
					View
	Log Name:	Application			Re.
	Source:	IBM Configuration Pack, vi	3.(Logged:	6/15/2011	
	Event ID:	100	Tack Category	None	Help
	Evencio,	100	rask category.	Class	Event 1
	Level:	warning	Keywords:	Classic	EN EN
	User:	SYSTEM	Computer:	IBM-8RS37	
	OpCode:				🕑 Att
	More Information:	Event Log Online Help		التر	Copy
	•			▶	1223

Figure 71. Windows Event Viewer logs

Running Homepage Summarization

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



Figure 72. Run Homepage Summarization function

2. After a few minutes, right-click **Desired Configuration Management** again and select **Refresh**. The assigned Baseline report appears in the window.



Figure 73. Baseline report

3. You can click the Baseline name link label to open the report view. For more details about reports for DCM, see http://technet.microsoft.com/en-us/library/bb680430.aspx.

Note: The SCCM Console must have Report access enabled; otherwise you cannot open the report view in SCCM Console.

Running IBM Configuration Capture

About this task

IBM Configuration Capture can capture IMM/uEFI settings from an IBM server, and export those captured settings into a Configuration Description XML file. To start IBM Configuration Capture, click the IBM Configuration Capture shortcut from the Start Menu. IBM Configuration Capture can also be launched on computers that do not have IBM Configuration Pack installed by copying the IBM Configuration Capture .exe file onto those computers.

Note: IBM Configuration Capture can be launched without activating the License Entitlement.

1. Launch the IBM Configuration Capture Wizard by clicking on the .exe file. The Welcome page appears.

튏 IBM Configuration Capture	×
Welcome	IBM.
Welcome to the IBM Configuration tool, click Next to continue.	Step 1/5
The IBM 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 IBM Configuration Pack Editor.	
< Back Next > Finish	Cancel

Figure 74. Welcome page

2. Click the **Next** button to display the General Information page. The General Information page auto collects information from the local computer.

IBM Configuration Lapture	2
eneral Information	IBM.
ter a name and description for this capture. Click Next to continue.	Step 2/5
Product Name is 08, and Machine Type/Model is IBM System x3100 M4 -[258242Z]-	•
Name: The captured IBM System x3100 M4 -[258242Z]- settings	
Description:	
- IMM Account (Optional)	

Figure 75. General page

Note: If the IMM account is different than the default account, the user needs to type the correct account to access IMM/uEFI module. For example, the default IMM account is id:USERID, pwd:PASSW0RD; however, if a user has changed the IMM account, they need to type the changed account in the IMM Account text box.

3. Click the **Next** button in the General page. IBM Configuration Capture starts collecting the local computer's IMM/uEFI settings.

is IBM Configuration Capture	×
General Information	IBM.
Enter a name and description for this capture. Click Next to continue.	Step 2/5
Product Name is 08, and Machine Type/Model is IBM System x3100 M4 -[258242Z]-	
Name: The captured IBM System x3100 M4 -[258242Z]- settings	
Description:	
Collecting information from local computer, please wait 👋 🗧	
- IMM Associate / Ontionally	
User ID: Password:	
Deale Newton Course	Convert 1
< Back Next > Finish	Cancel

Figure 76. Collecting information

4. After a few minutes, IBM Configuration Capture completes collecting the settings. The Select Settings page displays, which lists the captured settings. Users can select settings they want to export.

MM Se	ttings UEFI Settings		
The	following is IMM setting list		Selected Count: 59/59
	Property Name	Property Value	Description
	IMM.AutoNegotiate1	Yes	Configure the IMM Advanced Et
	IMM.BurnedInMacAddress	e4:1f:13:95:1f:3c	Read the IMM "Burned-in MAC
	IMM.DHCP1	DHCP then try static IP	Configure the IMM "DHCP" to s
	IMM.DHCPAssignedDomain		Reads the IMM DNS "Domain
	IMM.DHCPAssignedGateway1	9.125.90.1	Reads the IMM "Gateway addr
	IMM.DHCPAssignedHostIP1	9.125.90.183	Reads the IMM "IP address" as
	IMM.DHCPAssignedHostname	IMM2-e41f13951f3c	Reads the IMM "Host name" a
	IMM.DHCPAssignedNetMask1	255.255.255.0	Reads the IMM "Subnet mask"
	IMM.DHCPAssignedPrimary	9.125.90.211	Reads the Primary DNS Server 🗨
4			

Figure 77. IMM settings

MSe	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
\square	uEFI.Com1ActiveAfterBoot	Disable	Active after boot Settings.
\square	uEFI.Com1BaudRate	115200	Set your Baud Rate.
☑	uEFI.Com1DataBits	8	Set your Data bits.
☑	uEFI.Com1FlowControl	Disable	Flow Control Settings.
☑	uEFI.Com1Parity	None	Set your Parity.
	uEFI.Com1StopBits	1	Set your Stop Bits.
\square	uEFI.Com1TextEmul	ANSI	Set your Terminal Emulation.
$\mathbf{\nabla}$	uEFI.Com2ActiveAfterBoot	Disable	Active after boot Settings. 👻
4			

Figure 78. uEFI settings

Note: The capture can fail when the local computer does not have an IMM or uEFI module, or the IMM Account is incorrect. When the capture fails, you can click the **Information link** button for details.

BM Configuration Capture	×
Select Settings	IBM
The Select Settings page provides a list of all the IMM/uEFT settings. Click to select the settings you want to be included in the Configuration Capture. Click Next to continue.	Step 3/5
IMM Settings uEFI Settings	10
No IMM Settins were found on the local computer.	Information
Property N IBM Configuration Capture - Information	
Inquires the IMM information failure. Reason: The User ID and/or Password that was entered is incorrect.	
ОК	
	-
□ Show Log File < Back Next > Finish	Cancel

Figure 79. Incorrect IMM account is incorrect

5. Select the settings that you want from the Select Settings page, and click the **Next** button. The Export page lists settings you can export to a Configuration Description XML file.

IBM Configuration Capture

roperty Name	Property Value	Туре	Description
MM.AutoNegotiate1	Yes	IMM	Configure the IMM Advanced Eth.
MM.BurnedInMacAddress	e4:1f:13:95:1f:3c	IMM	Read the IMM "Burned-in MAC a
MM.DHCP1	DHCP then try static IP	IMM	Configure the IMM "DHCP" to set
MM.DHCPAssignedDomainN	8	IMM	Reads the IMM DNS "Domain na
MM.DHCPAssignedGateway1	9.125.90.1	IMM	Reads the IMM "Gateway addres
MM.DHCPAssignedHostIP1	9.125.90.183	IMM	Reads the IMM "IP address" assi
MM.DHCPAssignedHostname	IMM2-e41f13951f3c	IMM	Reads the IMM "Host name" ass
MM.DHCPAssignedNetMask1	255.255.255.0	IMM	Reads the IMM "Subnet mask" a.
MM.DHCPAssignedPrimaryD	9.125.90.211	IMM	Reads the Primary DNS Server I.
MM.DHCPAssignedSecondar	9.125.90.212	IMM	Reads the Secondary DNS Serv.
MM.DHCPAssignedTertiaryD	9.181.2.101	IMM	Reads the Tertiary DNS Server I
MM.DNS_Enable	Enabled	IMM	Enable or disable the IMM Doma

Figure 80. Export Page

6. The Export successfully completed page appears.

×

ᡖ IBM Configuration Capture			
Export Successfully Com	pleted		IBM.
Capture Finished.			Step 5/5
The IBM Configuration Capture Desktop\captured .xml.	tool successfully expo	orted the settings to: C	:\Users\Administrator
Open the Configuration Des	cription XML file folder	8	
☐ Show Log File	< Back	Next >	Finish Cancel

Figure 81. Export Successfully Completed

Note: You can export the captured Configuration Description file into any IBM Configuration Pack Editor to manage. For details see "Creating a **configuration item**" on page 24.

Chapter 4. Troubleshooting

- If you experience any issues when using IBM Configuration Pack Editor, you can check the log info under InstallationFolder\logs. The logs folder will be auto deleted after the product is uninstalled.
- If you want to export the logs of evaluation for IBM Configuration Pack on the endpoint, follow these steps:
 - 1. After the evaluation, launch Event Viewer.
 - 2. Expand the Windows Logs tree view.
 - 3. Right click the 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:
 - asu.exe show propertyname

e.g. asu.exe show IMM.HTTPPort

- Get the specific IMM/uEFI property with the account:

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

e.g. asu.exe show IMM.HTTPPort --user admin --password esW2Ad

- In the Evaluation Report View section, if the Script cannot get the evaluated setting, it will not return a value, and the SCCM Client agent will deem this evaluated setting is non-compliant. You can get the details about this evaluated setting from application logs in Windows. The following are terms used in the application log and their explanations:
 - [Not Found ASU] Not found ASU.exe in the specific location
 - [TargetOS] The bit of the current OS: 64-bit / 32-bit
 - [Found ASU] The location of ASU.exe
 - [Property] The evaluated property's name
 - [Set ACCOUNT] Whether users set IMM account in IBM Configuration Pack Editor
 - [TimeOut] Whether the evaluated setting is time out
 - [Return Code] This is the return code of ASU.exe. If the evaluated setting can be found, the return code is 0. Otherwise, the return code is larger than 0. For more details on ASU return code refer to the following web link: http://www-947.ibm.com/support/entry/portal/docdisplay?lndocid=TOOL-ASU
 - [Error Output] If the evaluated setting cannot be found, the [Error Output] records the failure reason.
 - [Output] If the evaluated setting can be found, the [Output] recodes the ASU.exe search result.
- IBM Configuration Capture recodes a log file in the IBM_Support\DCM\logs folder of the System Driver during the launching process. For example, if your System Driver is C:, then the log file will be recorded under the C:\IBM_Support\DMC\logs\ folder.
- IBM Configuration Capture can capture all IMM/uEFI settings from the IBM Server, but some captured settings may not be included in the common setting list of the IBM Configuration Pack Editor. The IBM Configuration Pack Editor cannot list the values of those settings after imported; the Editor assumes the type for those settings is String type.

IBM Configuration	Pack Editor - Setting Editor	K
Select the property t property, type it in th	that you wish to monitor for compliance. If the property list does not include the desired e Property Name field.	
Property Name:	IMM.DuplexAutoDisable	
Description:		
Comparator:	Equals Expected Value: Auto	
Severity:	Information	
Selection Summary	r.	
When the prop Otherwise, the	erty "IMM.DuplexAutoDisable" "Equals" "Auto", the property is compliant on the endpoint. property is non-compliant and returns a severity of "Information".	
	OK Cancel Apply	

Figure 82. IBM Configuration Pack Editor - Setting Editor page

In figure 1, IMM.DuplexAutoDisable does not be included in the common setting list of theIBM Configuration Pack Editor, so the Description and Expected Value combox field are empty. The IBM Configuration Pack Editor assumes the type of IMM.DuplexAutoDisable is String type. For details of the different types, please see Table 2.

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