

CHAPTER **3**

Package Manager

This chapter describes how to perform routine Cisco VXC Manager package management tasks using the Administrator Console. It provides information on managing the Cisco VXC Manager packages (software, images, configurations, and so on) that can be distributed to the devices within your Cisco VXC Manager environment.

For detailed instructions for managing packaging for Cisco VXC clients, see Chapter 4, "Cisco VXC Firmware and Configuration Upgrade Procedures".

Managing Cisco VXC Manager Packages

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Click **Package Manager** in the tree pane of the Cisco VXC Manager Administrator Console to open the Package Manager. The Package Manager allows you to quickly view and manage the Cisco VXC Manager packages that can be distributed to the devices within your Cisco VXC Manager environment (see Table 3-1). It also allows you to easily display the Cisco VXC Manager packages you want by using the available filtering and customizing features.

Figure 3-1 Pack	age Manager				
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⇔ → 🗈 🖬 🕸 😫 🛿	1 📐				
📄 Console Root	Name 🔺	Description	Status	Default	
🗄 🙋 CiscoVXCManager	🔁 Agent Update	Agent Update	Active	Yes	
🗄 🚑 Device Manager	EDevice Configuration	Device Configuration	Active	Yes	
🖻 🎧 Package Manager	Images	Images	Active	Yes	
🛁 Agent Update	🔁 Other Packages	Other Packages	Active	Yes	
Device Configuration	🛅 ThreadX Configuration	ThreadX Configuration	Active	No	
Other Packages					
ThreadX Configuration					
🕀 🥸 Update Manager					
🕀 🛃 Report Manager					
🗄 🔨 Configuration Manager					

Before you use the Package Wizard to create and register Cisco VXC Manager packages, you should understand the update distribution process and the contents of Cisco VXC Manager packages, know the location of the existing Cisco VXC Manager packages that you want to register, and ensure that the devices from which you are getting images or configurations already have the Cisco VXC Manager Agent (HAgent) installed. After Cisco VXC Manager packages are registered, you can distribute them as updates to the devices within your Cisco VXC Manager network (see Update Manager, page 5-29).

<u>}</u> Tip

If you intend to perform Cisco VXC Manager package registration and scheduling for all of the devices in your Cisco VXC Manager system at the same time, the Cisco VXC Manager Mass Imaging Tool can be a convenient way for you to easily perform these tasks (see Using the Cisco VXC Manager Mass Imaging Tool, page D-17).

Table 3-1 provides a quick overview of what you can do using the Package Manager.

Table 3-1	Routine	Package	Manager	Tasks
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Tasks You Can Do	How	Details
Create and register a Cisco VXC Manager package from a script file so it is ready to be distributed.	In the tree pane of the Administrator Console, right-click Package Manager , choose New > Package to open the Package Wizard, choose the Register a Package from a Script File (.RSP) option, and then follow the wizard.	Register a Package from a Script File (.RSP), page 3-35TipFor information on script files, see Cisco VXC Firmware and Configuration Upgrade Procedures, page 4-1
Create and register a configuration from a device running Enhanced SUSE Linux Enterprise so it is ready to be distributed.	In the tree pane of the Administrator Console, right-click Package Manager , choose New > Package to open the Package Wizard, choose the Register a Configuration from a Device option, and then follow the wizard.	Registering a Configuration from Devices Running Enhanced SUSE Linux Enterprise, page 3-36
	TipYou can also right-click the reference device and choose Get Device Configuration to open and use the Package Wizard.	
Create and register a ThreadX package so it is ready to be distributed.	Use the guidelines in Updating the PCoIP Client Configuration (Building and Registering a ThreadX Package), page 4-11. After you create these packages, you can drag and drop a package to the devices you want, and then schedule their deployment accordingly.	Updating the PCoIP Client Configuration (Building and Registering a ThreadX Package), page 4-11
View the details of a registered Cisco VXC Manager package.	In the tree pane of the Administrator Console, expand Package Manager and choose the folder that contains the Cisco VXC Manager package. In the details pane, right-click the Cisco VXC Manager package and choose Properties .	Viewing the Details of a Registered Cisco VXC Manager Package, page 3-37

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Tasks You Can Do	How	Details
View and change the script of a	In the tree pane of the Administrator	Viewing and C
registered Cisco VXC Manager	Console, expand Package Manager and	Registered Cise
nackage	choose the folder that contains the Cisco	Package nage

Table 3-1	Routine Package I	Manager	Tasks	(continued	I)
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View and change the script of a	In the tree pane of the Administrator	Viewing a	and Changing the Script of a	
registered Cisco VXC Manager	Console, expand Package Manager and	Registered Cisco VXC Manager		
package.	choose the folder that contains the Cisco	Package,	page 3-39	
	VXC Manager package. In the details			
	pane, right-click the Cisco VXC	<u>_!\</u>		
	Manager package and choose View	Caution	You cannot modify the script	
	Package Script to open and use the		for default Cisco VXC	
	Package Script dialog box.		Manager packages	
		1		

Table 3-1	Routine Package Manager Tasks (continued)
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Tasks You Can Do	How	Details
Export the script of a registered Cisco VXC Manager package to a folder you want.	In the tree pane of the Administrator Console, expand Package Manager and choose the folder that contains the Cisco VXC Manager package. In the details pane, right-click the Cisco VXC Manager package and choose Export Package Script to open and use the Browse for Folder dialog box.	Exporting the Script of a Registered Cisco VXC Manager Package, page 3-40
Delete a registered Cisco VXC Manager package from the system.	In the tree pane of the Administrator Console, expand Package Manager and choose the folder that contains the Cisco VXC Manager package. In the details pane, right-click the Cisco VXC Manager package, choose Delete , and then confirm the deletion. Tip You can use Ctrl-click or Shift-click to choose multiple Cisco VXC Manager packages.	 You cannot delete default Cisco VXC Manager packages. You cannot delete a registered Cisco VXC Manager package that is scheduled for distribution; you must first delete the scheduled update as described in Managing the Schedules for Device Updates, page 5-29 before you can delete a registered Cisco VXC Manager package. Caution When you delete a registered Cisco VXC Manager package that has never been distributed, Cisco VXC Manager also deletes it from the Cisco VXC Manager Repository. The Cisco VXC Manager package is recoverable only if you have a copy of it outside of Cisco VXC Manager. In such a case, you can re-register the Cisco VXC Manager package. Tip If you delete a Cisco VXC Manager package that has already been distributed, you can recover it from the Backup folder of the Cisco VXC Manager Repository and re-register it. When archived, a
		Cisco VXC Manager package receives a date-stamped name, therefore, before re-registering an archived Cisco VXC Manager package, you must rename it to its original name.

Register a Package from a Script File (.RSP)

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Caution When you register Cisco VXC Manager packages, be sure you have write permissions to the directory where the Cisco VXC package files are located and to the configured Cisco VXC Manager software repository location. If you attempt to register a package without the correct write permissions, registration errors can occur.

Use the following procedure to register a package from an RSP script file.

Procedure

Step 1 In the tree pane of the Administrator Console, right-click **Package Manager** and choose **New > Package** to open the Package Wizard.

Package Wizard	Packages contain software, images, and configurations for distribution to devices. What do you want to do?
2	

Figure 3-2 Package Wizard

- Step 2 Choose the Register a Package from a Script File (.RSP) option and click Next.
- **Step 3** Enter the File Path to the Cisco VXC Manager script (RSP) file for the Cisco VXC Manager package (for example, push_9V92_S550_512.rsp) you want to register (you can use **Browse** to find and choose a file), and then click **Next** to open the Software Package Information dialog box.

Package Wizard			×
010	lf you have admi package by unc	inistrator privileges you may in hecking the "Active" checkbo	activate this X.
.011	Package Informa	ation	
0 T T /	<u>N</u> ame	Checkin@1	
1010	<u>D</u> escription	This script will have device:	: checkin
1000	<u>C</u> ategory	Test	V
110			Active
ి		< <u>B</u> ack <u>N</u> ext:	Cancel

Figure 3-3 Software Package Information

- **Step 4** The Software Package Information dialog box displays the Name, Description, and Category of the Cisco VXC Manager package specified in the RSP file.
- Step 5 Depending on whether or not you want to have the Cisco VXC Manager package distributed (active for distribution), check or uncheck the Active check box.
- **Step 6** Click **Next**. The wizard notifies you that is ready to create and register the new Cisco VXC Manager package.
- Step 7 Click Next to create and register the Cisco VXC Manager package.
- Step 8 After the Cisco VXC Manager package has been created and registered, click Finish. Cisco VXC Manager copies the package to the Master Repository and displays the package under the appropriate category. The Cisco VXC Manager package is now ready for distribution (see Managing the Schedules for Device Updates, page 5-29).

Registering a Configuration from Devices Running Enhanced SUSE Linux Enterprise

This Package Wizard option pulls a configuration from a device (such as a reference device) to easily configure (clone) similar devices within your Cisco VXC Manager installation.

₽ Tip

This functionality is supported only on clients running Enhanced SUSE Linux Enterprise.

Prior to using the Package Wizard to pull and register the configuration from a Reference Device, ensure that:

- The reference device supports Pre-boot Execute Environment (PXE).
- You have configured the reference device to fulfill your specifications.
- You have tested the reference device and resolved any issues.

After you ensure your reference device is ready, you can continue using the Package Wizard to pull and register the configuration from the device in accordance with the following procedure.

	Procedure							
Step 1	In the t to oper	In the tree pane of the Administrator Console, right-click Package Manager and choose New > Package to open the Package Wizard.						
	$\mathbf{\rho}$							
	Тір	You can also right-click the Reference Device in the details pane of the Device Manager and choose Get Device Configuration to open the Package Wizard.						
Step 2	Choose	e the Register a Configuration from a Device option and click Next.						
Step 3	Enter a packag Refere	Enter a name and description for the Cisco VXC Manager package (the new Cisco VXC Manager package will remain inactive until Cisco VXC Manager successfully retrieves the configuration from the Reference Device).						
Step 4	Click I packag	Click Next . The wizard notifies you that is ready to create and register the new Cisco VXC Manager package.						
Step 5	Click I	Next to create and register the Cisco VXC Manager package.						
Step 6	After the Cisco VXC Manager package has been created and registered, click Finish . The Cisco VXC Manager package is copied to the Master Repository and is displayed under the appropriate category. The Cisco VXC Manager package is now ready for distribution (see Managing the Schedules for Device Updates, page 5-29).							

Viewing the Details of a Registered Cisco VXC Manager Package

Use the following procedure to view the details of a registered Cisco VXC Manager package.

Procedure

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Step 1 In the tree pane of the Administrator Console, expand **Package Manager** and choose the folder that contains the Cisco VXC Manager package you want to view.

17.8								
🚡 Cisco¥XCManager - [Console Ro	ot\CiscoVXCN	Manager\Packa	ge Manager\Other Pack	ages]				
🚡 Eile Action ⊻iew Favorites	<u>Window</u> <u>H</u> e	lp						_ 8 ×
← → 🗈 🖬 🛍 🗙 🙆 🛛	3 🕄 💵							,
Console Boot	Name /	1	Description		Status	05	Size (KB)	Created
E O CiscoVXCManager	Rebert		Device Rehoot		Active	ALL	1	2/1/2011 2:06
- 🔤 Device Manager	Shul Pr	roperties	Shutdown		Active	ALL	1	2/1/2011 2:06
🖻 🕼 Package Manager	Wak Vi	iew Package Script	WOL		Active	ALL	1	2/1/2011 2:06
Agent Update	E	xport Package Scri	pt					
Device Configuration	9	ору						
Other Backager	D	elete						
ThreadX Configuration	R	efresh						
🗄 🛞 Update Manager	н	ieln						
🖭 🝓 Report Manager								
E Configuration Manager								
Group Types								
Default Device Configu								
Preferences								
🗄 🤣 Networks								
User Permissions								
Certificate Expiration Ti								
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4.8.5								sion 4.8.5

Figure 3-4 Cisco VXC Manager Package Properties

Step 2 In the details pane, right-click the Cisco VXC Manager package and choose **Properties** to open the Edit Package dialog box displaying the details of the Cisco VXC Manager package.

Figure 3-5 Edit Package

Active packages car inactive packages ca status using the Activ) be scheduled for distribution. Conversely, annot be scheduled. Set this package's ve check box below.
Name:	Checkin1
Description:	This script will have devices checkin
Operating System:	Windows XP
Size (KB):	1

The Edit Package dialog box contains the following fields:

- Name—Name of the Cisco VXC Manager package.
- Description—Description of the Cisco VXC Manager package.
- Active—If selected, allows distribution of the Cisco VXC Manager package to a device; if cleared, the Cisco VXC Manager package cannot be distributed to a device.
- Operating System—The operating system for which this Cisco VXC Manager package is compatible.
- Size—Size of the Cisco VXC Manager package in kilobytes.
- Date Created—Cisco VXC Manager package creation date and time.

Viewing and Changing the Script of a Registered Cisco VXC Manager Package

Cisco VXC Manager Scripting Language is a simplified scripting language that you can use to build your own Cisco VXC Manager packages. You can also use it to perform basic tasks such as copying files and modifying the registry of the devices that Cisco VXC Manager manages. Cisco VXC Manager Scripting Language is not a programming language (it does not support looping, branching, and the use of subroutines). However, it does contain a small command set to allow it to perform a variety of routine functions such as checking the operating system version on a given device.



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You cannot modify the script for default Cisco VXC Manager packages.

Procedure

Step 1 In the tree pane of the Administrator Console, expand **Package Manager** and choose the folder that contains the Cisco VXC Manager package you want to view.

📅 CiscoVXEManager - [Console Root\CiscoVXEManager\Package Manager\Other Packages]							
Eile Action View Favorites	Ele Action View Favorites Window Help						_ & ×
← → 🗈 🖪 🖿 🗙 🛛	2 2 0						
Console Root	Name 🛆	Description		Status O:	s	Size (KB)	Created
E Q CiscoVXCManager	Rebert	Deutee Reboot		Active Al	L	1	2/1/2011 2:06
Device Manager	Shul View Pac	Shutdown		Active Al	L	1	2/1/2011 2:06
Package Manager	Wak Export P	wol		Active Al	LL	1	2/1/2011 2:06
Device Configuration							
- Images	⊆opy						
Other Packages	Delete						
ThreadX Configuration	Keiresii						
Dpdate Manager Report Mapager	Help						
Configuration Manager							
Group Types							
- Tiews							
Default Device Configur							
Preferences							
Software Repositories							
🗉 🍜 Networks							
User Permissions							
Utilities							
Certificate Expiration Ti							
4.8.5							rsion 4.8.5

Figure 3-6 View Cisco VXC Manager Package Script

Step 2 In the details pane, right-click the Cisco VXC Manager package and choose **View Package Script** to open the Package Script dialog box displaying the script of the Cisco VXC Manager package.

ickage Script		x
Package:	Checkin1	
[Version] Number=Checki Description=Thi: DS=XP Category=Other	in1 s script will have devices checkin Packages	
Script]		<u> </u>
LU "XP"		

Figure 3-7 Package Script

Step 3 Choose the **Edit and Save Script to Database ONLY** check box and then make your changes to the script of the RSP file.

Step 4 After completing your changes, click **OK**.

Exporting the Script of a Registered Cisco VXC Manager Package

Use the following procedure to export the script of a registered Cisco VXC Manager package.

Procedure

Step 1 In the tree pane of the Administrator Console, expand **Package Manager** and choose the folder that contains the Cisco VXC Manager package you want to view.

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🐕 CiscoVXCManager - [Console R	oot\Cisco¥XCManager\Package	Manager\Other Packages]			
Eile Action View Favorites	<u>Window</u> Help					_ 8 ×
← → 🗈 🖬 🖎 🖉	B 🔮 🖬					
Console Root	Name 🛆 De:	scription	Status	OS	Size (KB)	Created
Console Root CiscoWXCManager	Nee / De; Reb Shui Wat Wat Copy Delete Refresh Help	scription Febook Shutdown WOL 	Status Active Active Active	os All All All	Size (KB) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Created 2/1/2011 2:06 2/1/2011 2:06 2/1/2011 2:06
4.8.5	ي الدر ا					

Figure 3-8 View Cisco VXC Manager Package Script

- **Step 2** In the details pane, right-click the Cisco VXC Manager package, and choose **Export Package Script** to open the Browse for Folder dialog box.
- **Step 3** Choose the folder to which you want to export the script, and then confirm.

