
End-to-End Deployment of Updates in SCCM 2012 Using Dell Business Client Catalog

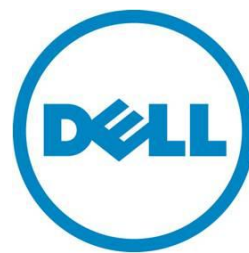
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Introduction

The Dell Business Client Updates Catalog automates the patch process of system updates for Dell Business Client System in a Microsoft ConfigMgr environment.

The catalog files contain detailed information to determine which updates are required for Dell Business Client Systems and how to apply them. You can use it with the software update management functionality of Microsoft ConfigMgr to provide automated BIOS, firmware, driver and Dell application updates.

Dell Business Client Systems are Latitude, Optiplex and Dell Precision workstations.

Scope

This white paper explains how to:

- Import the Dell Client updates Catalog using Microsoft System Center Update Publisher (SCUP 2011)
- Publish to Microsoft System Center Configuration Manager (SCCM 2012)
- Deploy the updates to the target Dell Business Client Systems

This document is not intended to explain SCCM 2012 or SCUP 2011.

Note: The terms Dell Business Client Catalog, Dell Client Catalog, Dell SCUP catalog, Client Catalog and SDP catalog are used interchangeably and the meaning remains same.

Prerequisites

The following bullets are prerequisites:

- Install and configure Microsoft System Center Configuration Manager (SCCM) 2012
- Install and configure Microsoft System Center Update Publisher (SCUP) 2011
- Install and configure Microsoft Windows Server Update Service (WSUS) 3.0 SP1
- Discover target Dell client systems
- Dell Client Catalog (DellSDPCalogPC.cab)
- Dell OpenManage Inventory Agent (DSIA) - (Prerequisite for Dell Business Client systems)

Note:

- Dell Updates are only provided in English. The catalog is restricted to English language updates only.
- Dell recommends that this solution is tested using your test environment before deploying in a production environment.

Steps to deploy Dell updates in Config Manager 2012 using Dell Client Catalog

1. Download the Dell Client Catalog.
2. Import the Dell Client Catalog into SCUP.
3. Publish the updates to the update server.
4. Synchronize the software updates.
5. Deploy the updates to the target client systems.
6. Initiate Client Action.
7. Install the updates on target client systems.
8. View the Summary.

Downloading the Dell Client Catalog

The latest Dell Client catalog is available at this location and is updated twice a month.

<ftp://ftp.dell.com/catalog/DellSDPCatalogPC.cab>

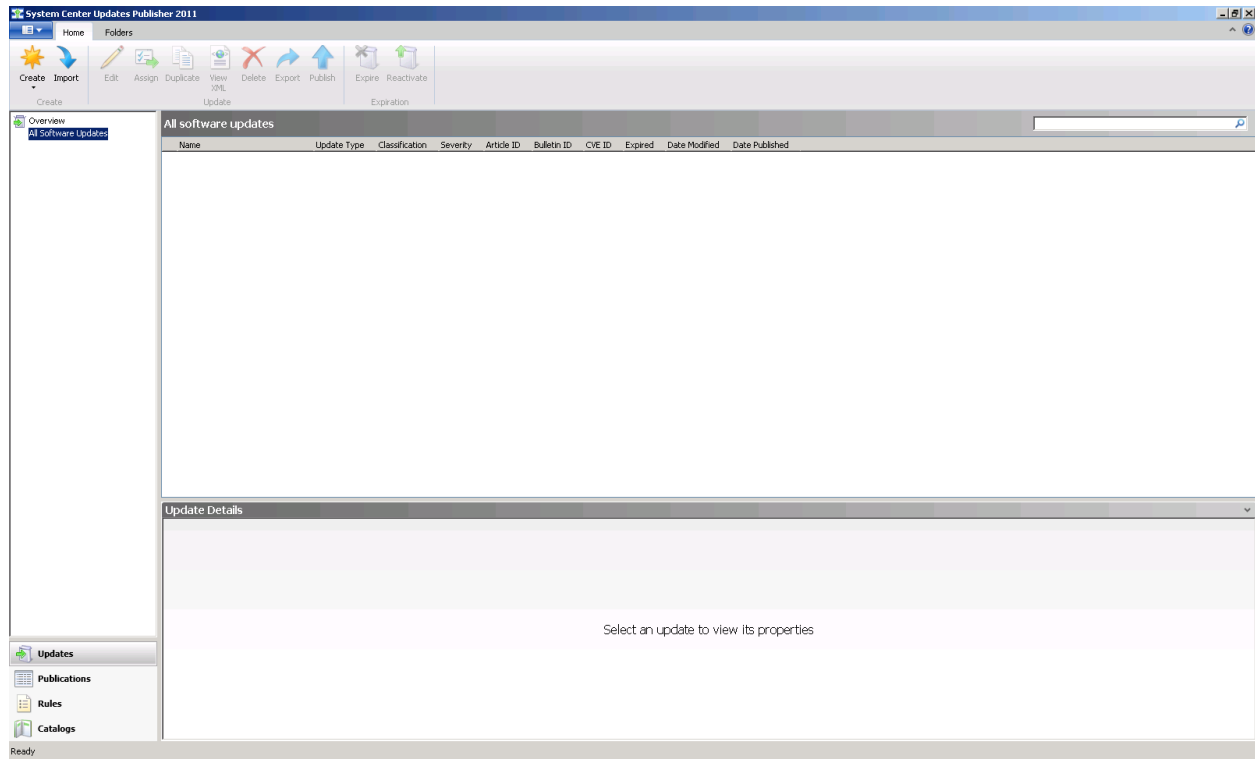
.

Download the Catalog and copy it on your system.

Importing the Dell SDP Catalog and publishing Dell updates using SCUP 2011

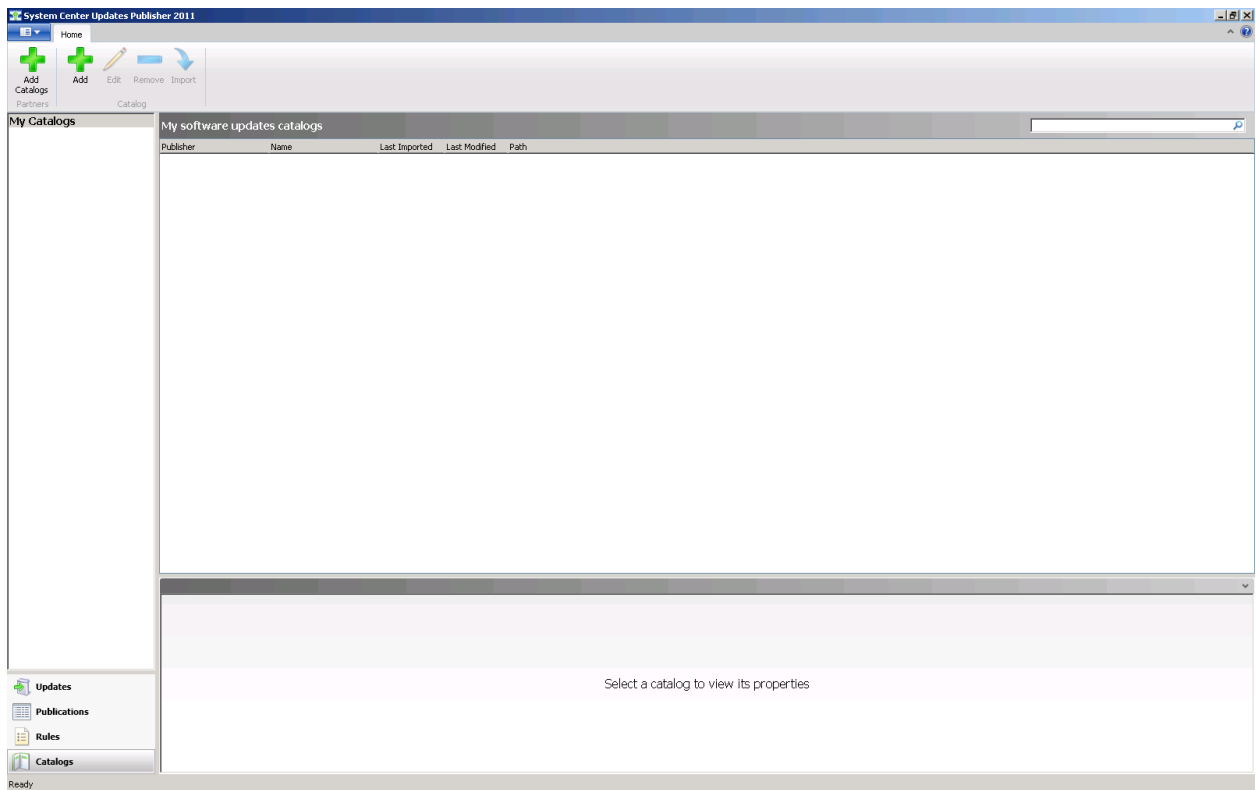
1. At the Start menu, open All Programs and select **System Center Update Publisher 2011**.

Figure 1. Select an update to view its properties.



2. Catalog can be imported by Custom Catalog (Providing the Catalog URL Path) or by manually downloading the SDP catalog.
3. Steps to import Custom Catalog by:
 - a. Click **Catalogs Workspace** - located on the bottom left panel.

Figure 2. My software updates catalogs screen.



- b. Click Add.
- c. In the Add Software Update Catalog Wizard, under Catalog path, specify the Catalog Path as:
<ftp://ftp.dell.com/catalog/DellSDPCatalogPC.cab>
Use the Publisher name Dell.

Figure 3. Specifying the catalog path.

Add Software Update Catalog

Add Software Update Catalog

Specify the details of the catalog to add to My Catalogs

Catalog Path:

Example: \\myserver\myshare\myfile.cab

Publisher:

Name:

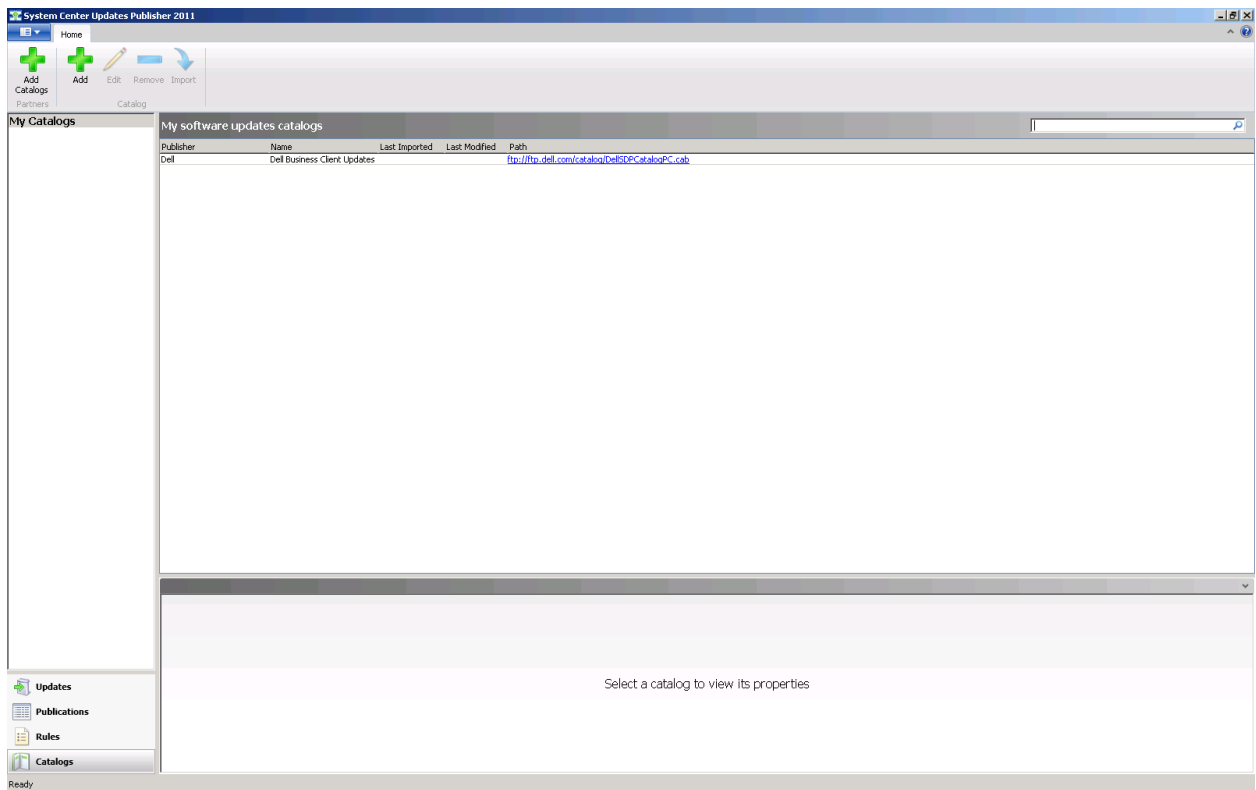
Description:

Support URL:

d. Click **OK**.

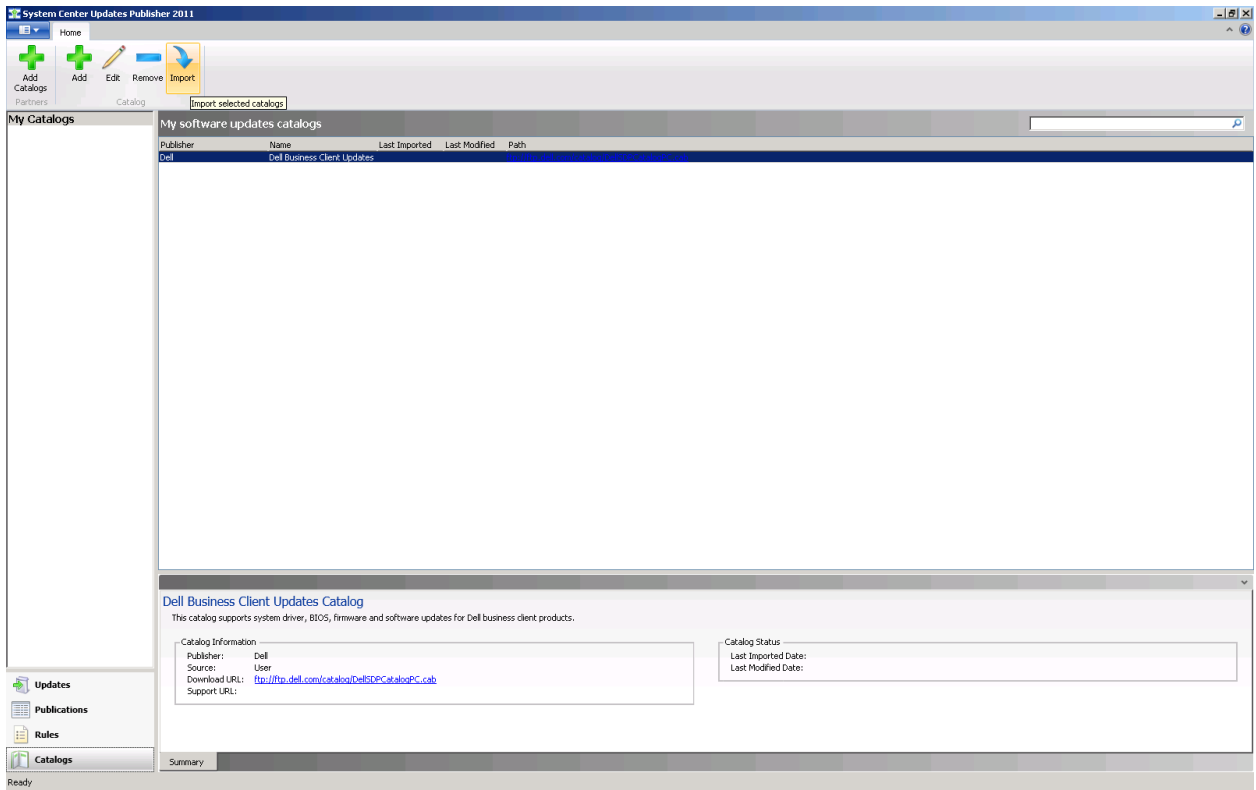
It will be added as custom catalog

Figure 4. Viewing your custom catalog.



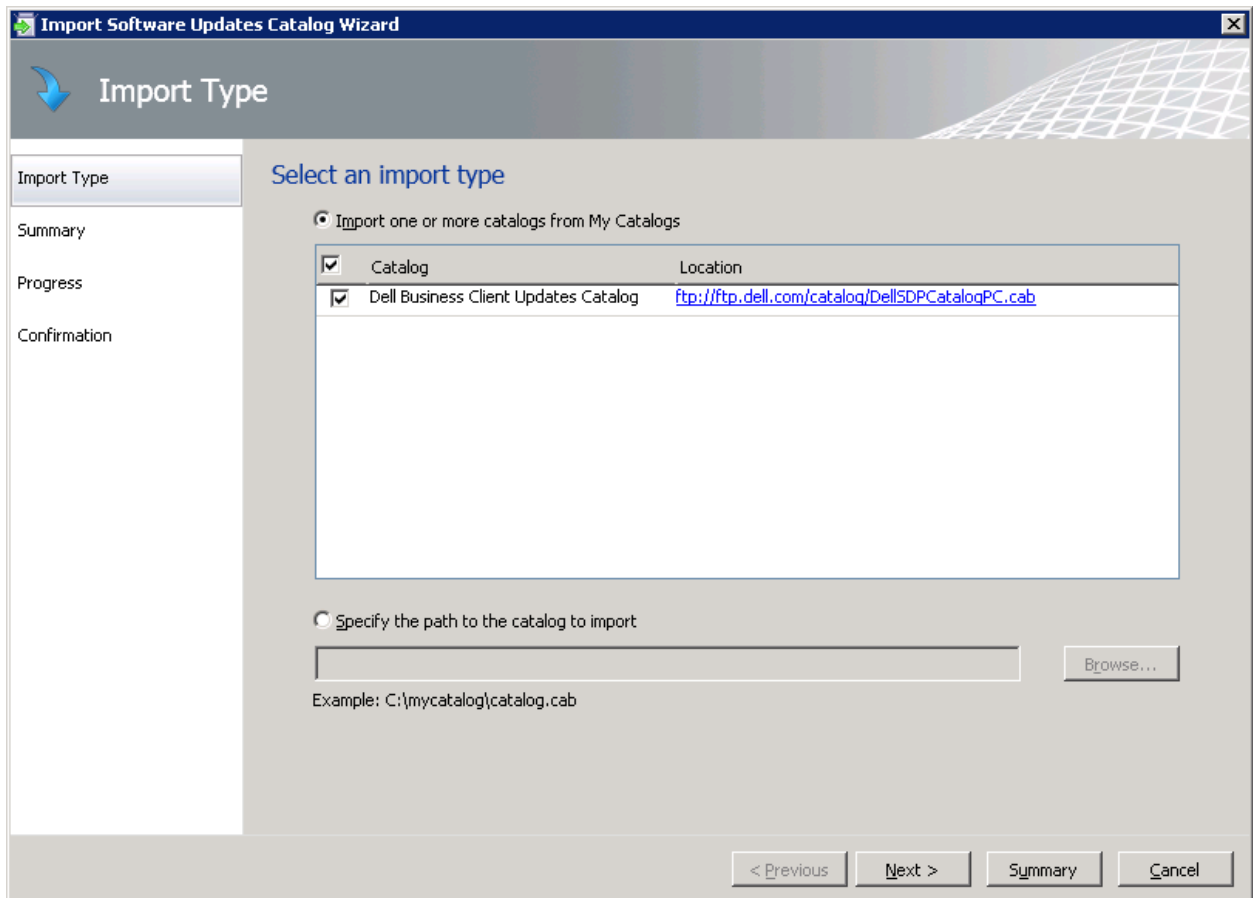
- e. Select the added custom catalog and right-click and select **Import** to import the Dell client catalog.

Figure 5. Importing the Dell catalog.



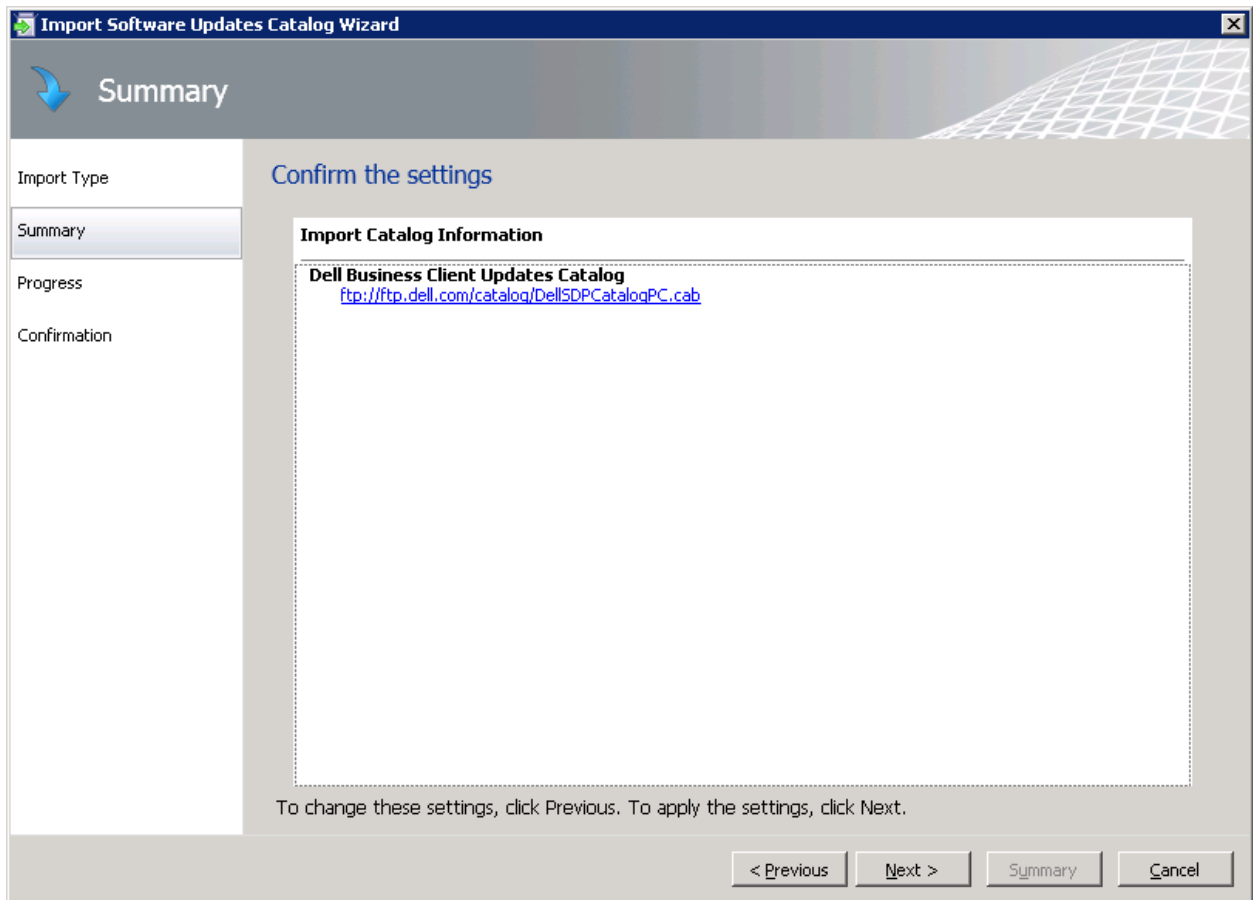
f. The Import Software Updates Catalog Wizard will be shown as below:

Figure 6. Select an import type.



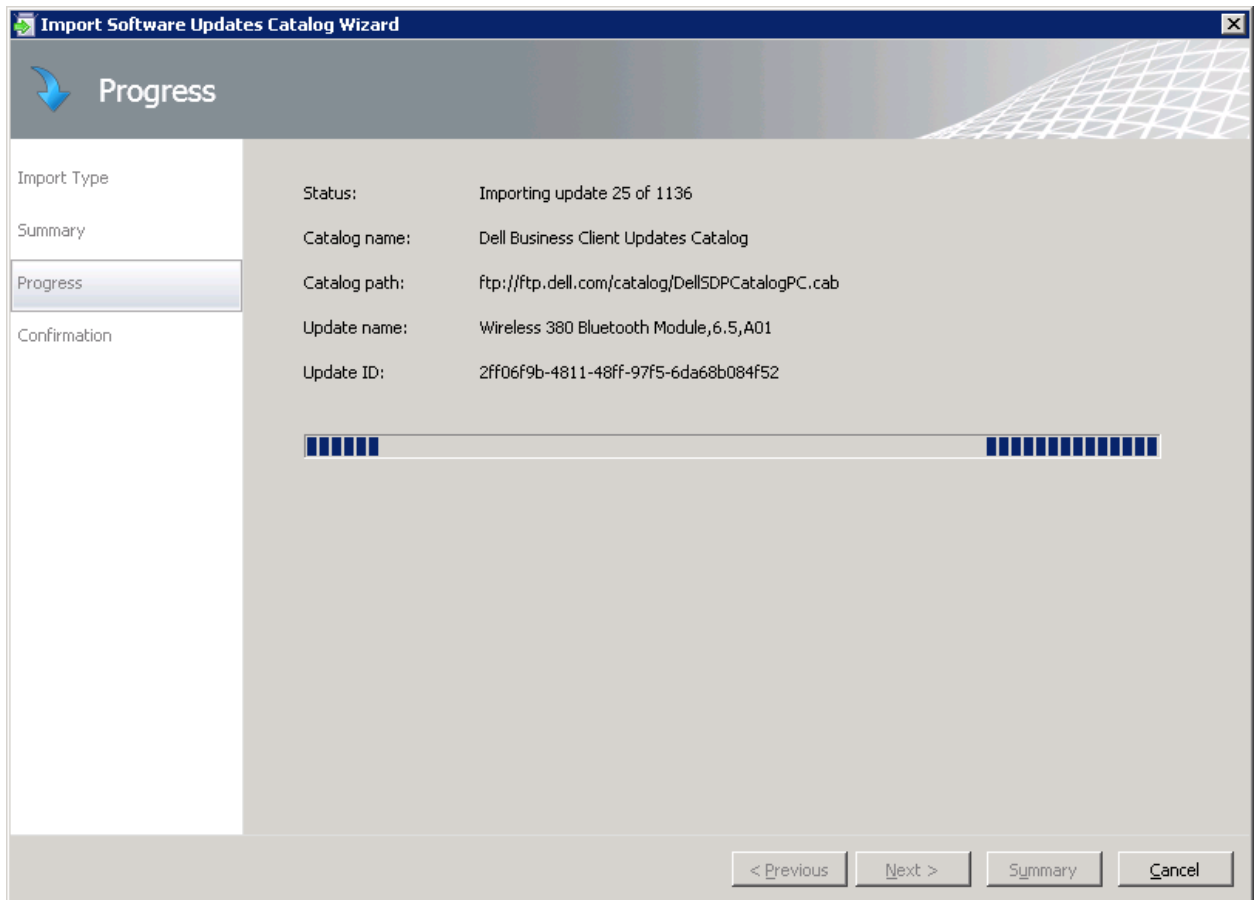
g. Click Next.

Figure 7. Confirming the settings.



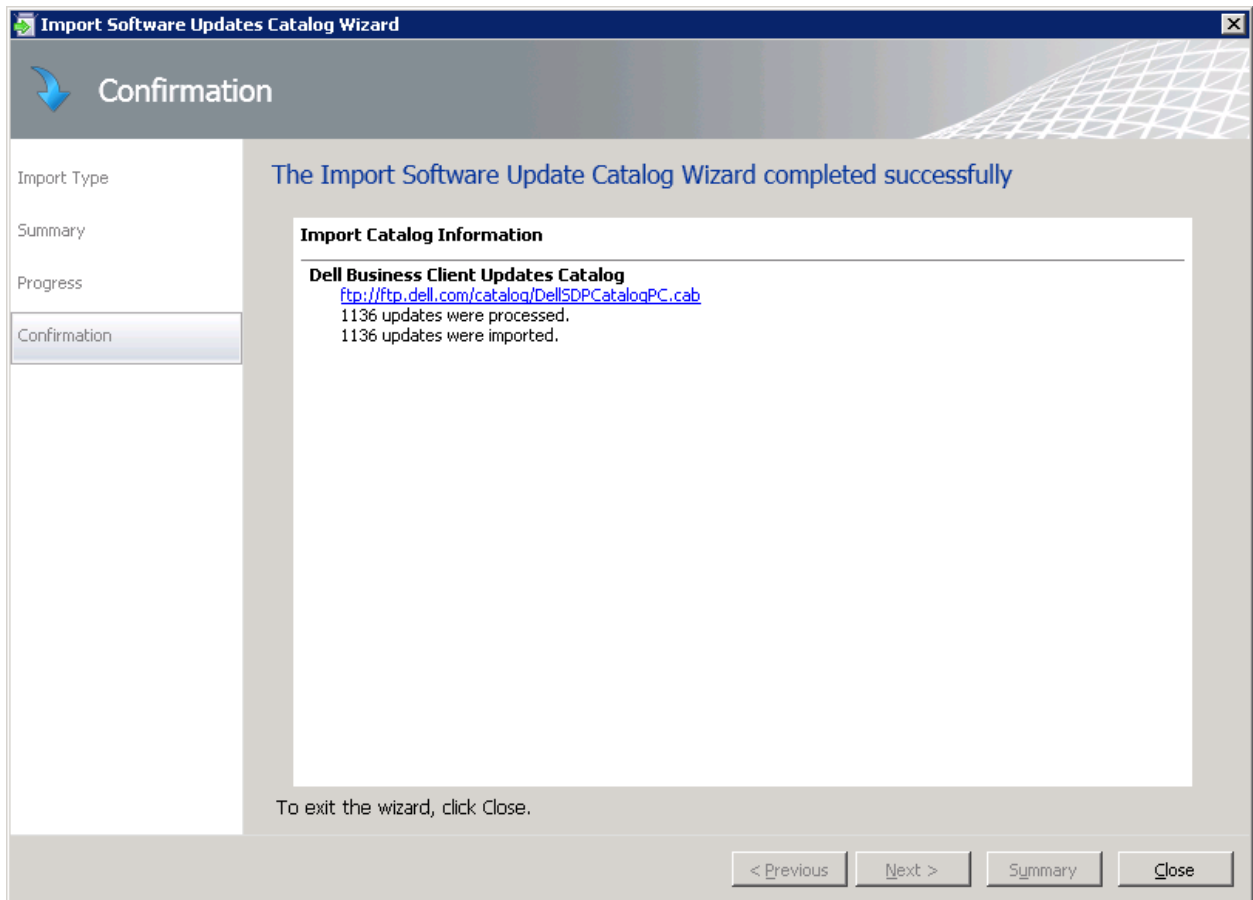
h. Click Next.

Figure 8. Progress screen.



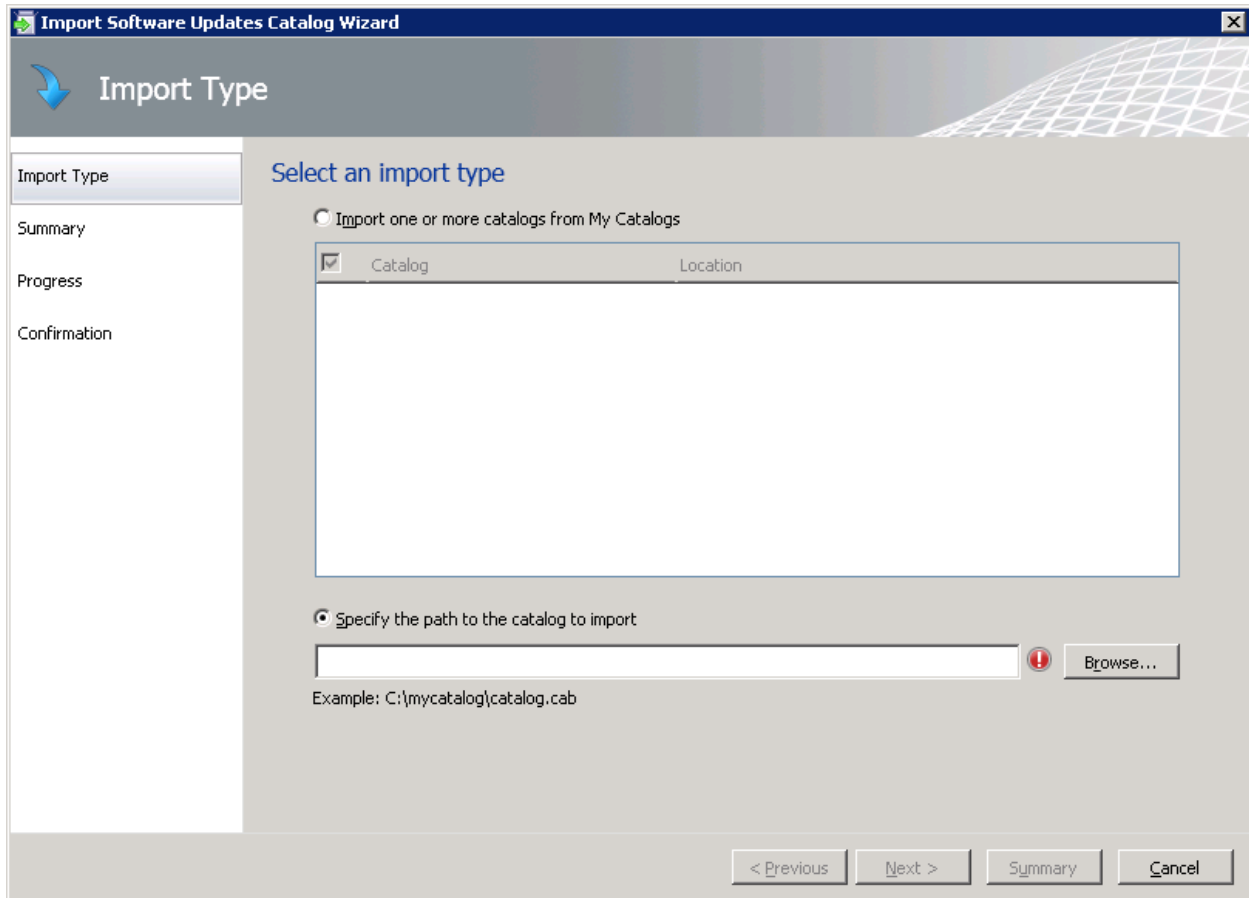
Importing the Dell catalog to SCUP.

Figure 9. Confirm the wizard completed successfully.



4. To manually import the DellSDPCatalog, select the **Import Type** option.

Figure 10. Selecting an import type.



5. In the Software Updates Catalog Wizard, to select the SDP Catalog cab file, click **Browse**.

Figure 11. Selecting a catalog.

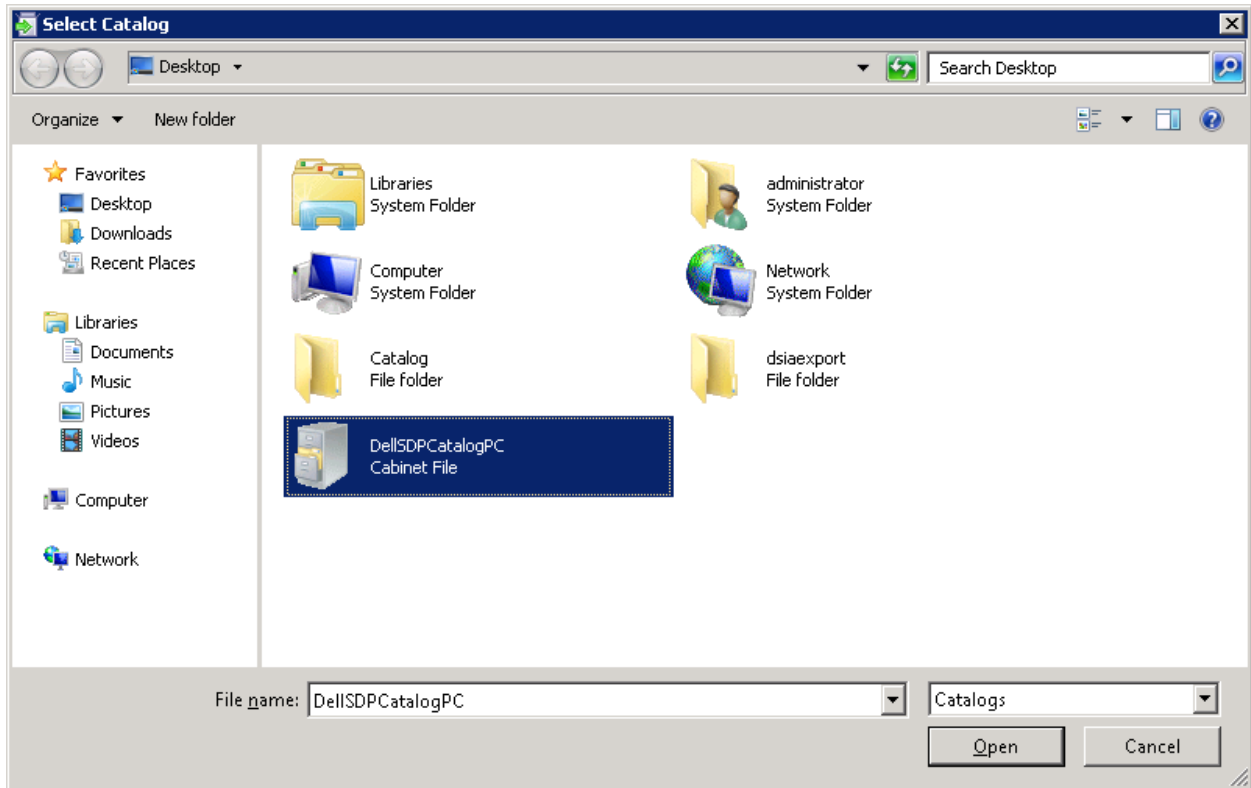
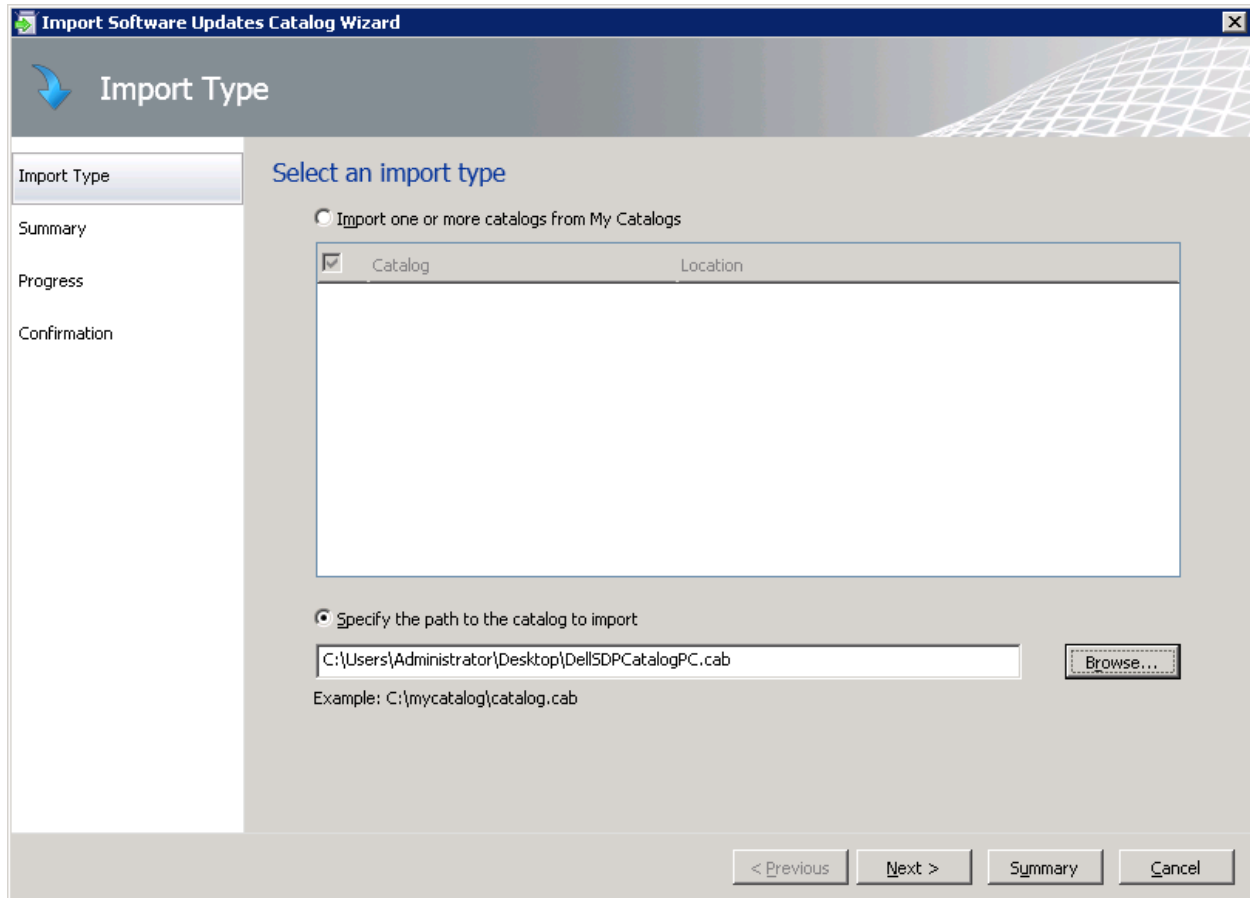
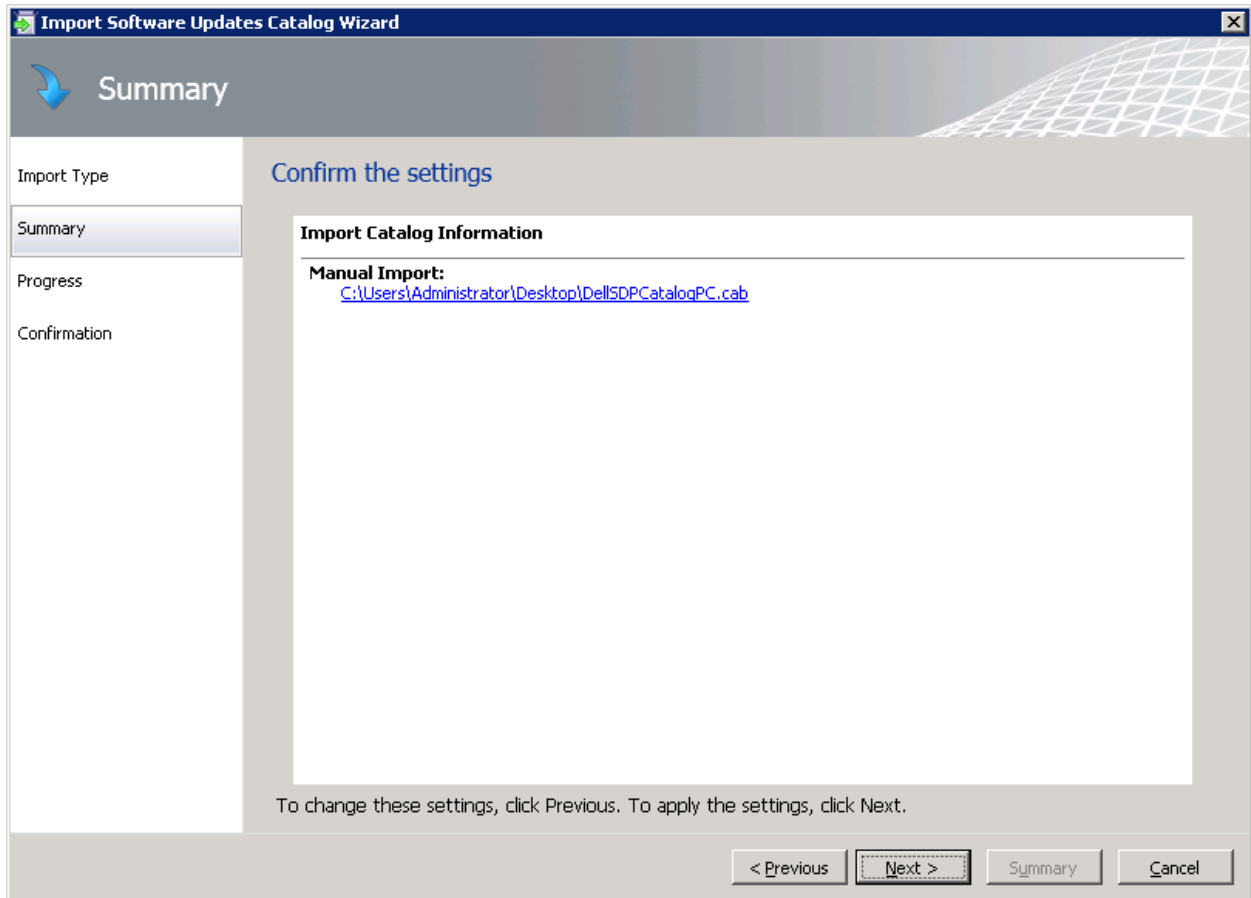


Figure 12. Specify the catalog path.



6. Click Next.

Figure 13. Confirming the settings.



7. Click **Next**.

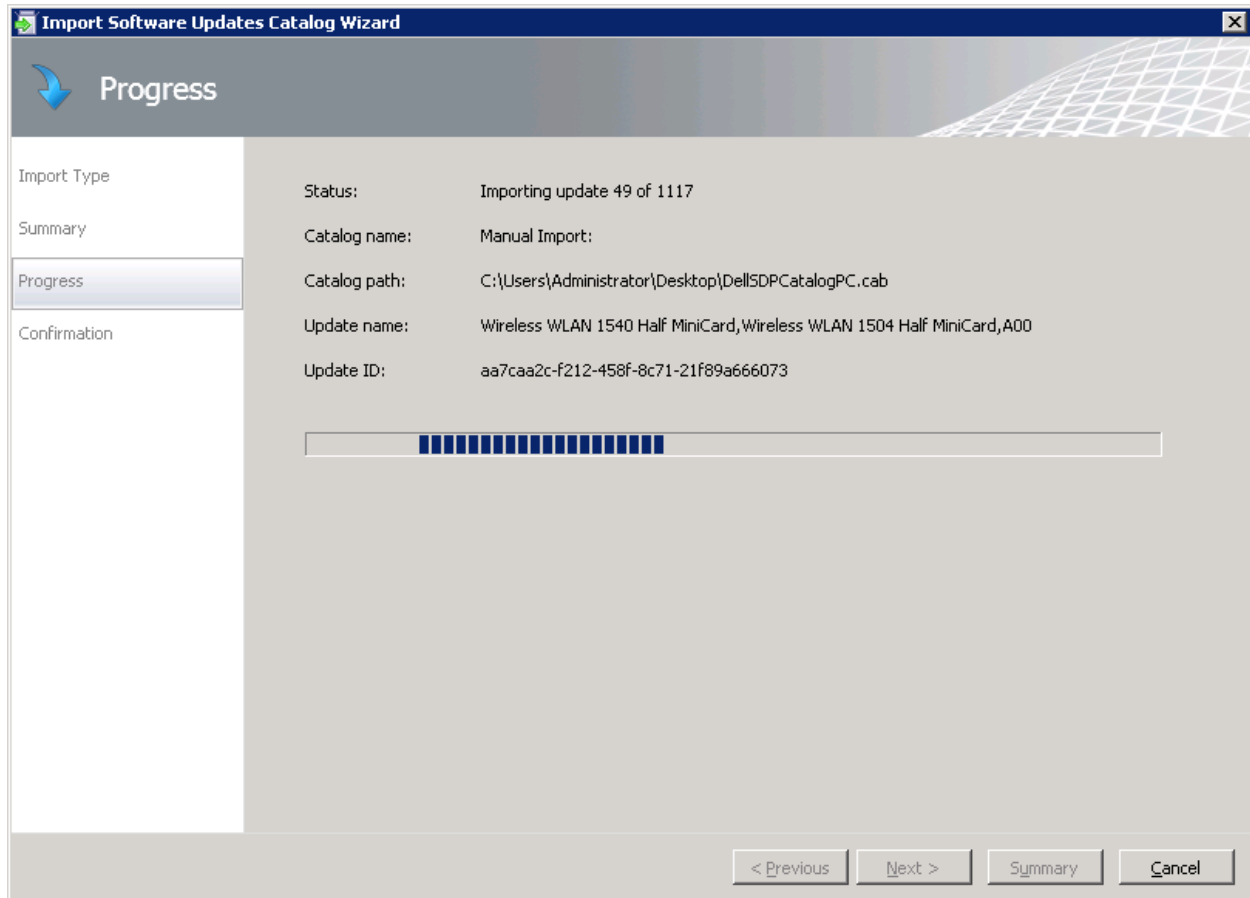
Figure 14. Viewing the Security Warning.



When you import the Dell Catalog into SCUP for the first time, a Security Warning message prompts you to accept the Dell Catalog.

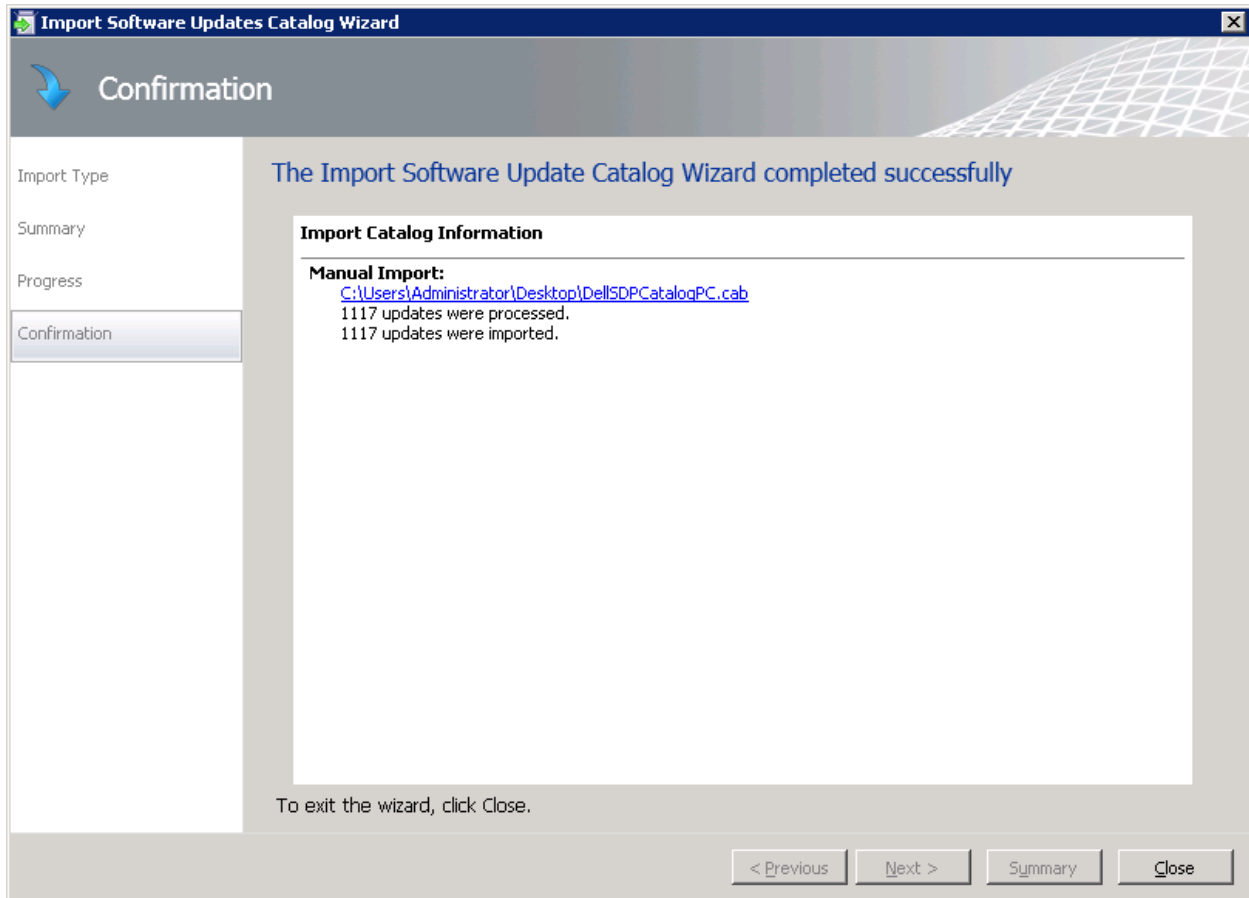
8. For no further prompts to occur, click **Always accept content from “Dell Inc.”**

Figure 15. Progress window.



9. View the Catalog importing updates to SCUP.

Figure 16. Confirmation window.

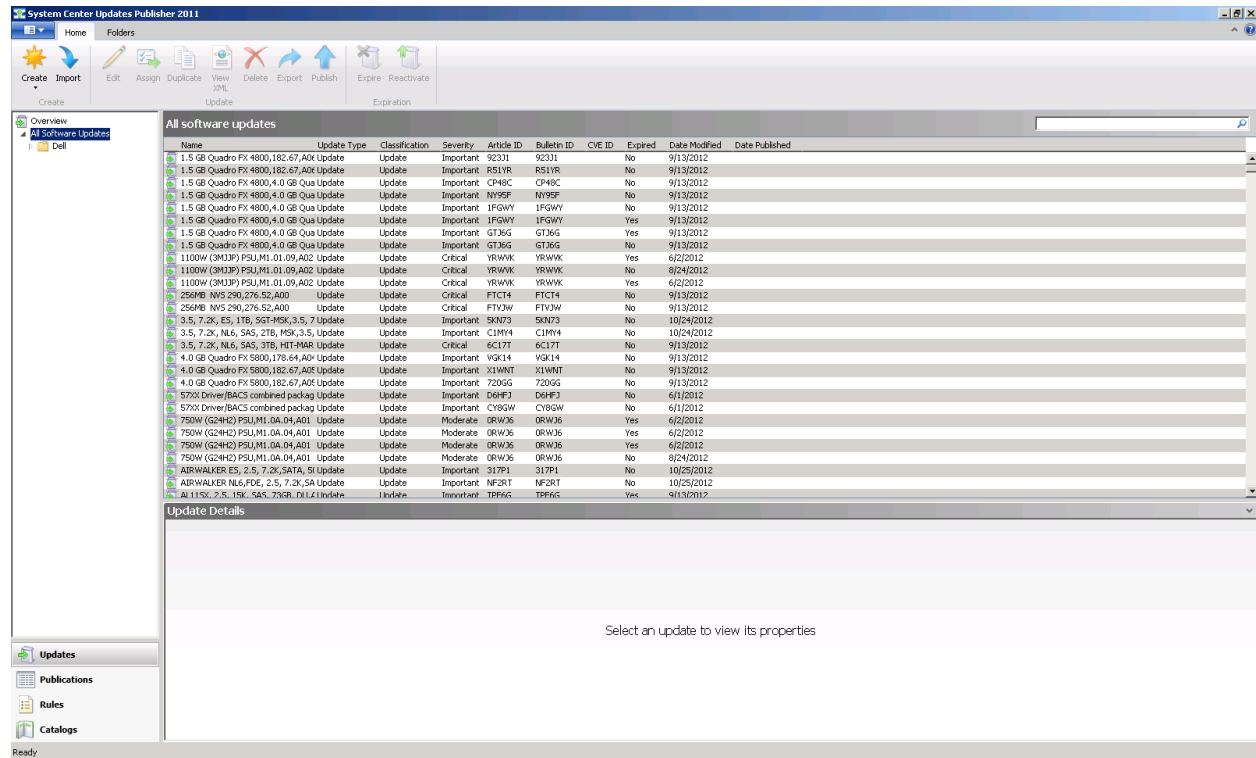


10. To finish the Import Software Update Catalog Wizard, click **Close**.

Publishing Dell updates from SCUP 2011 to the Update Server

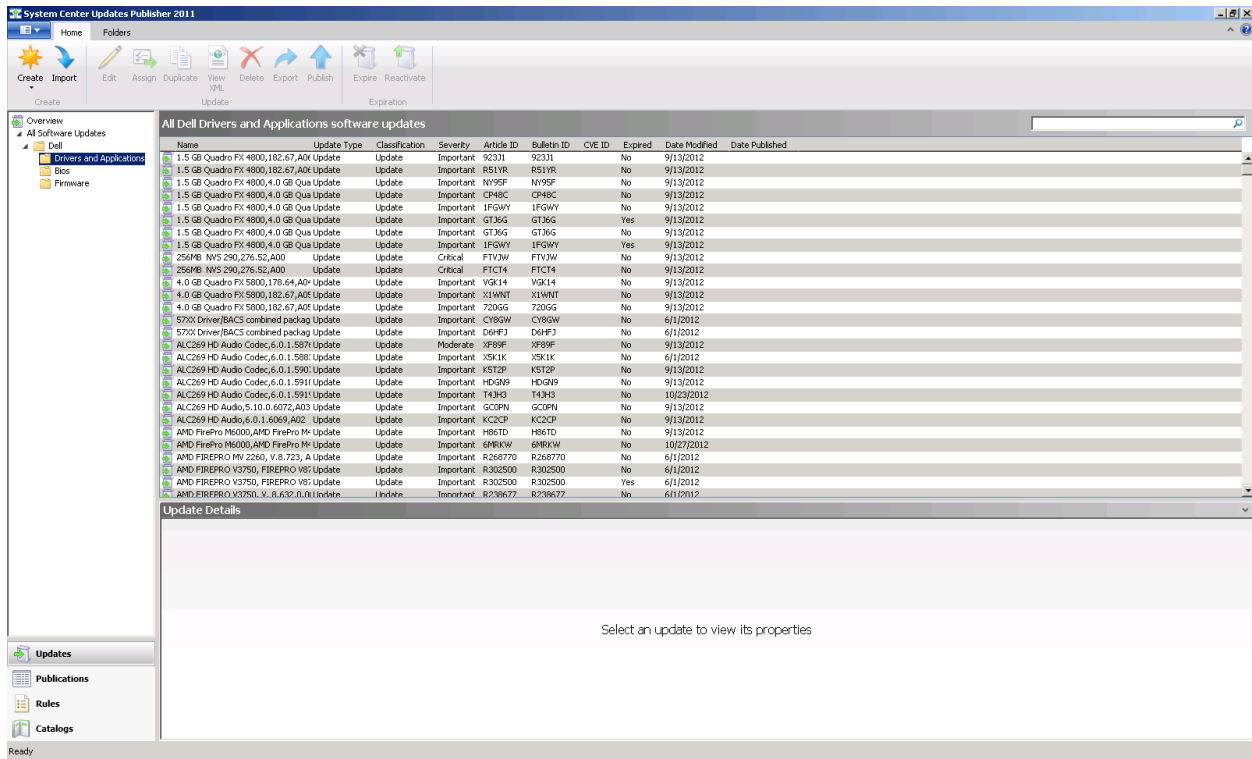
Under the Console Tree, the Dell group now appears with three subcategories: BIOS, Drivers and Applications, and Firmware. Browse the categories to select individual updates to publish.

Figure 17. Viewing the Dell group.



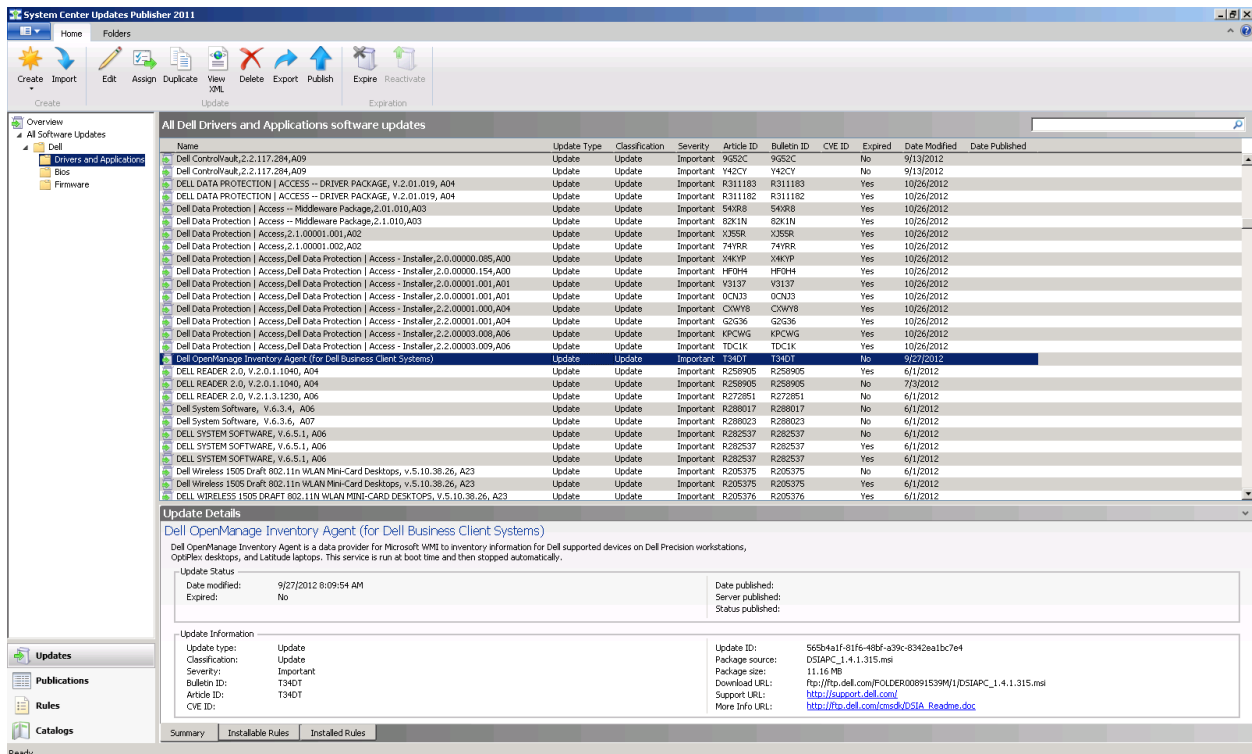
Note: At a minimum, publish the Dell OpenManage Inventory Agent (DSIA) located in the Dell Drivers and Applications section. This agent is the inventory collection tool that you must install first on SCCM Dell managed clients. Use it to collect inventory and populate to Windows Management Instrumentation (WMI) so that all other up-dates can be evaluated.

Figure 18. Selecting Drivers and Applications.



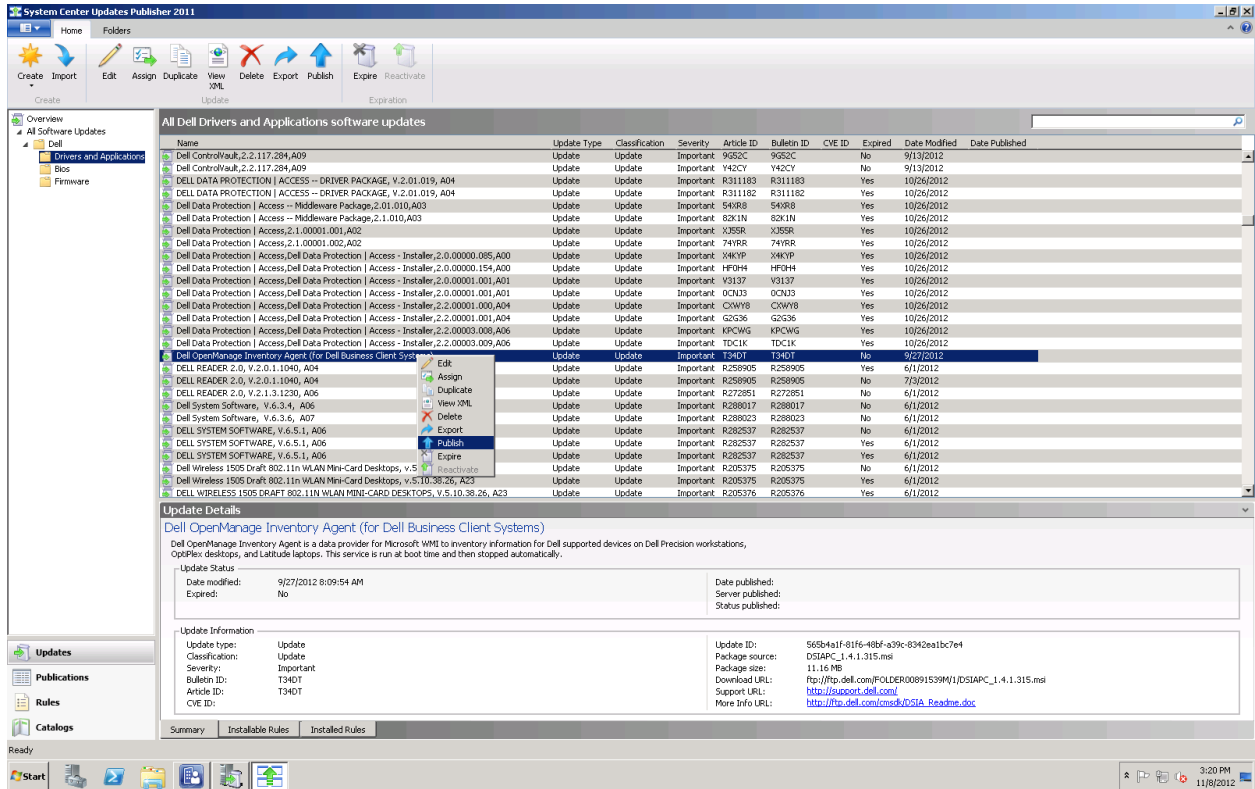
1. Select Drivers and Applications.

Figure 19. Selecting the Dell OpenManage Inventory Agent.



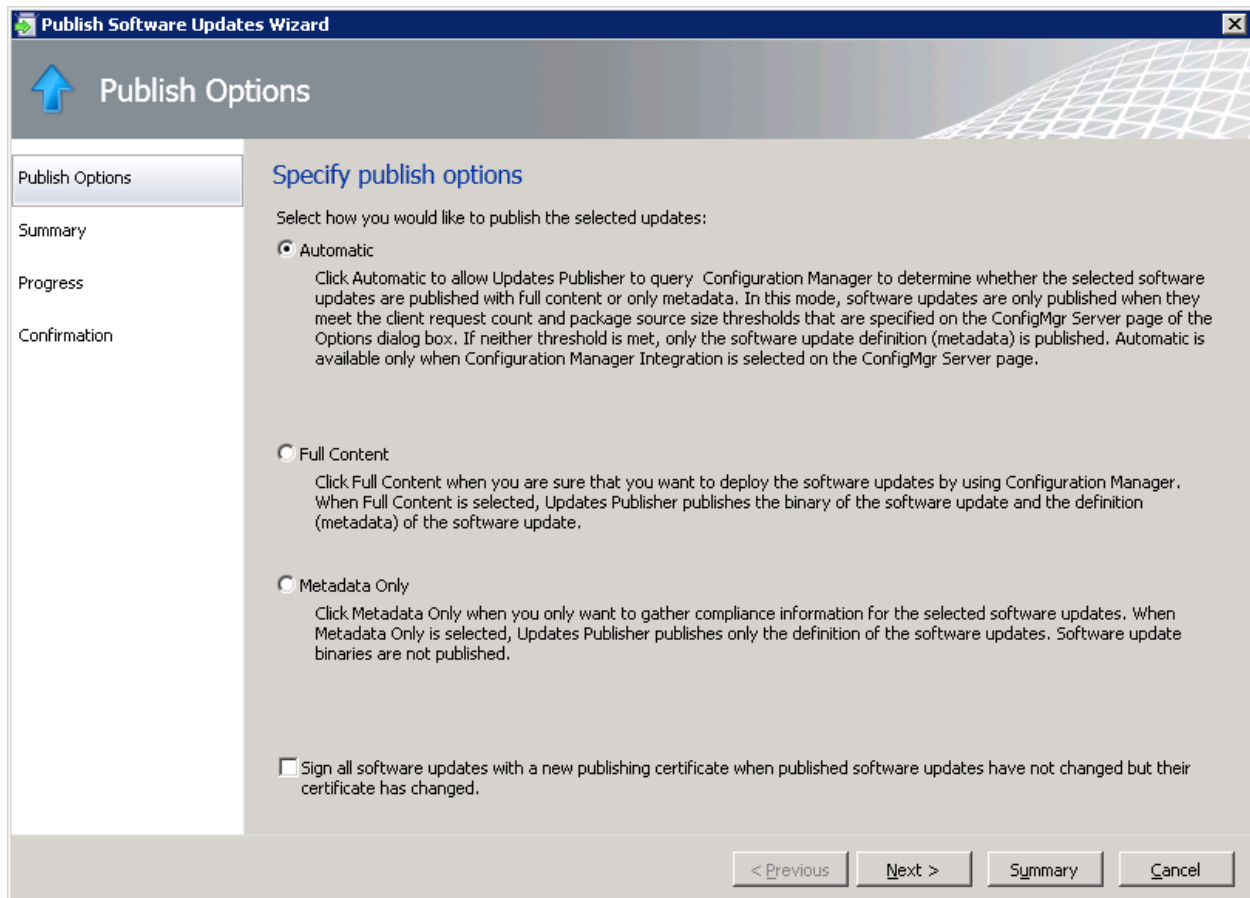
2. Select Dell OpenManage Inventory Agent (DSIA) for Dell Business Client Systems Update.

Figure 20. Selecting Publish.



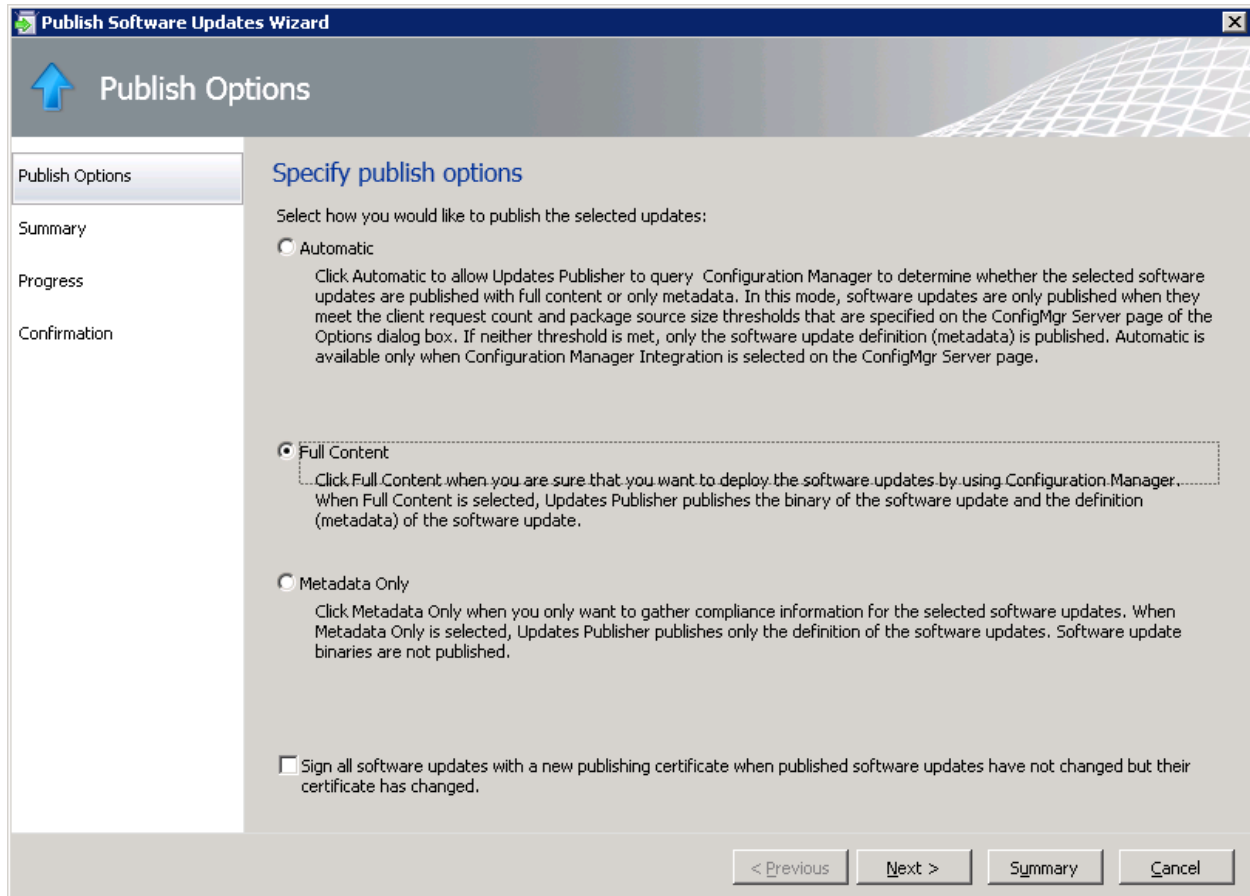
3. Select Publish.

Figure 21. Specifying publish options.



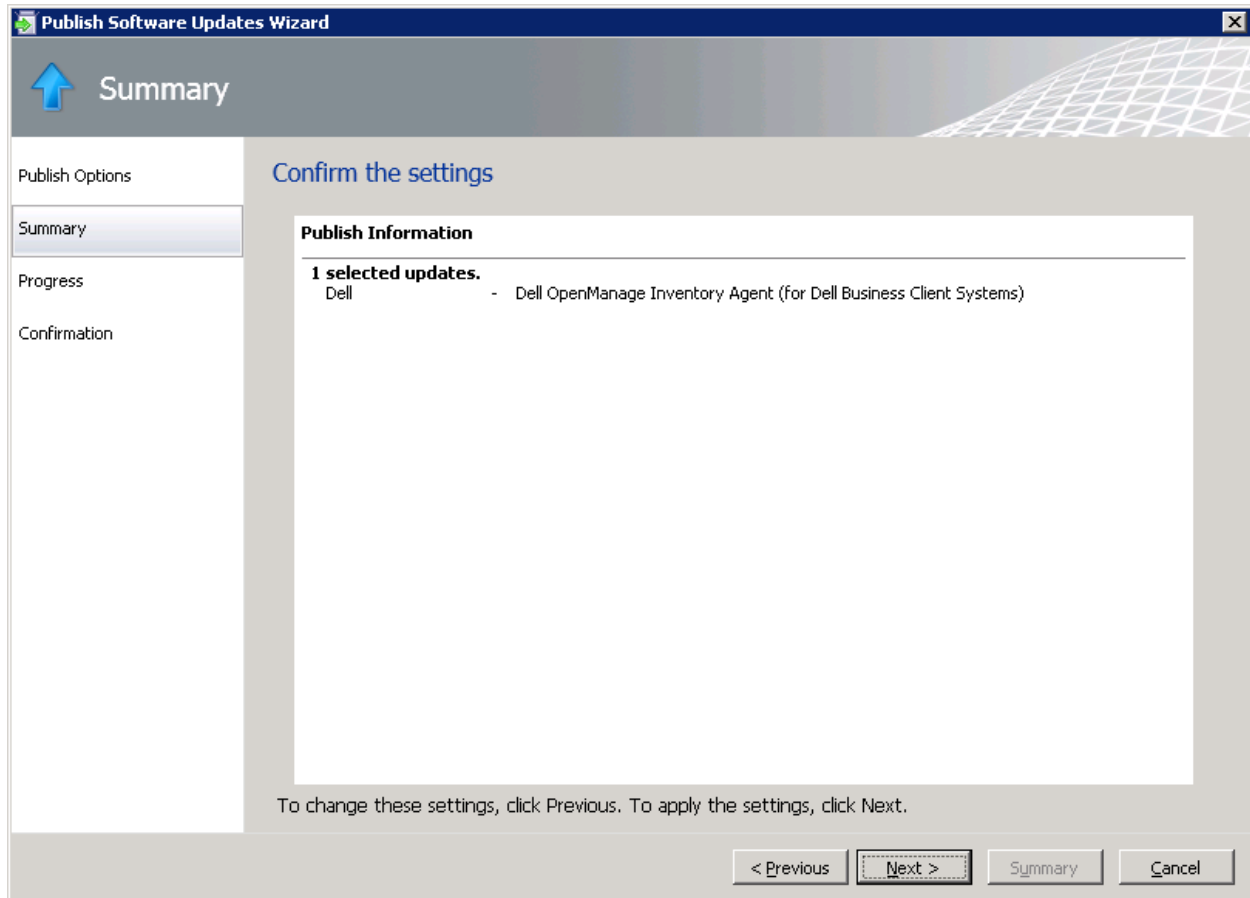
4. Specify the publish option.

Figure 22. Selecting Full Content.



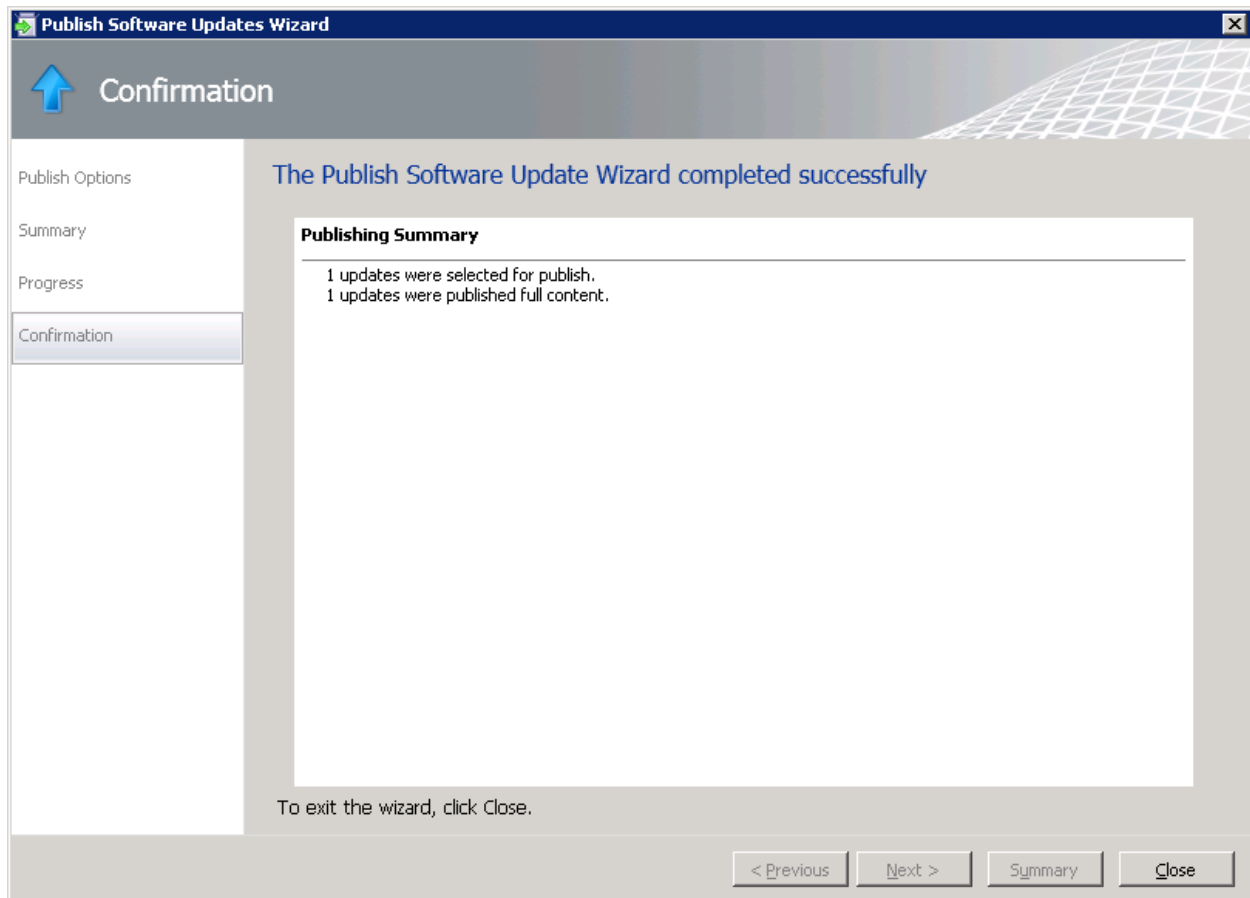
5. Click **Full Content** and click **Next**.

Figure 23. Confirming settings.



6. Click Next.

Figure 24. Confirmation window.



The Dell OpenManage Inventory (For Dell Client Business Client Systems) update published successfully.

7. To finish the Publish Software Updates Wizard, click **Close**.

Deploying updates using SCCM 2012

Once the update publishes in SCUP, then open the System Center 2012 Configuration Manager Console and do **synchronization**.

1. Go to **Start menu > All Programs**.
2. Select **Microsoft System Center 2012**.
3. Click **Configuration Manager Console**.
4. Navigate to **Software Library**.
5. Expand the **Software Updates** node.
6. Select **All Software Updates**.

Figure 25. Administration Overview.

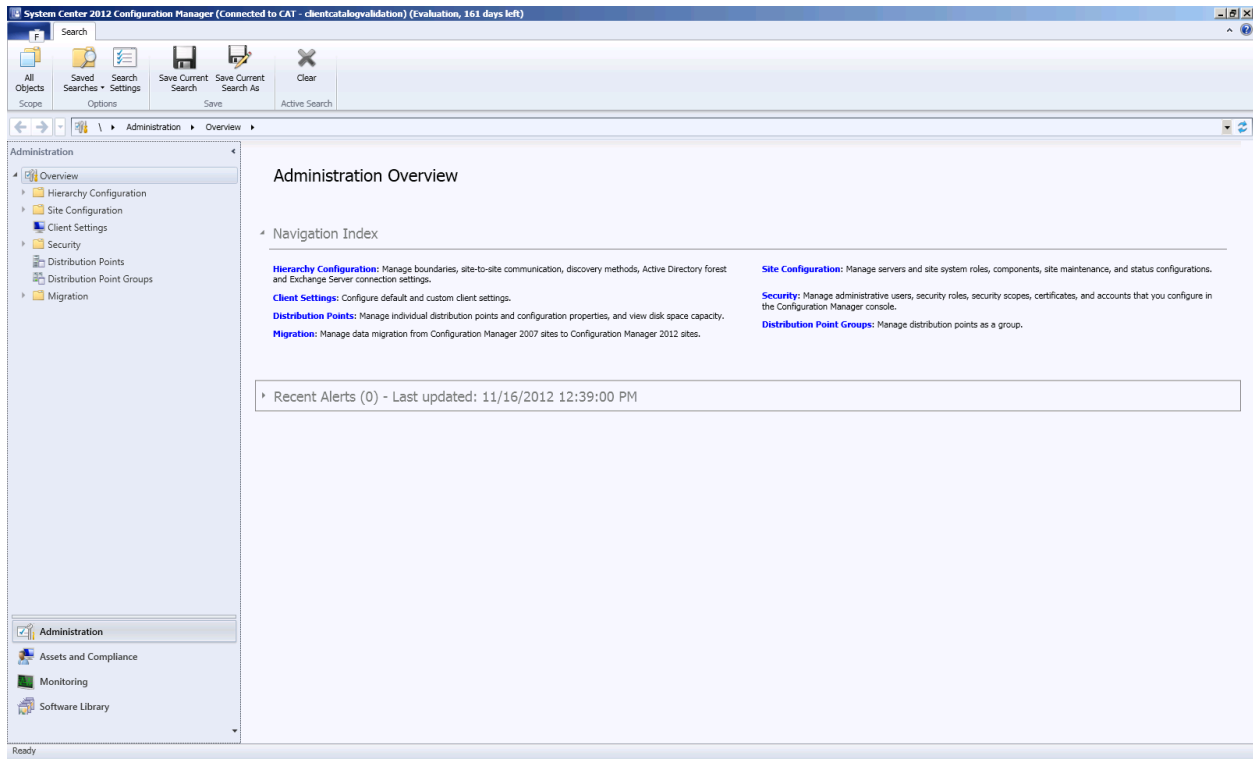
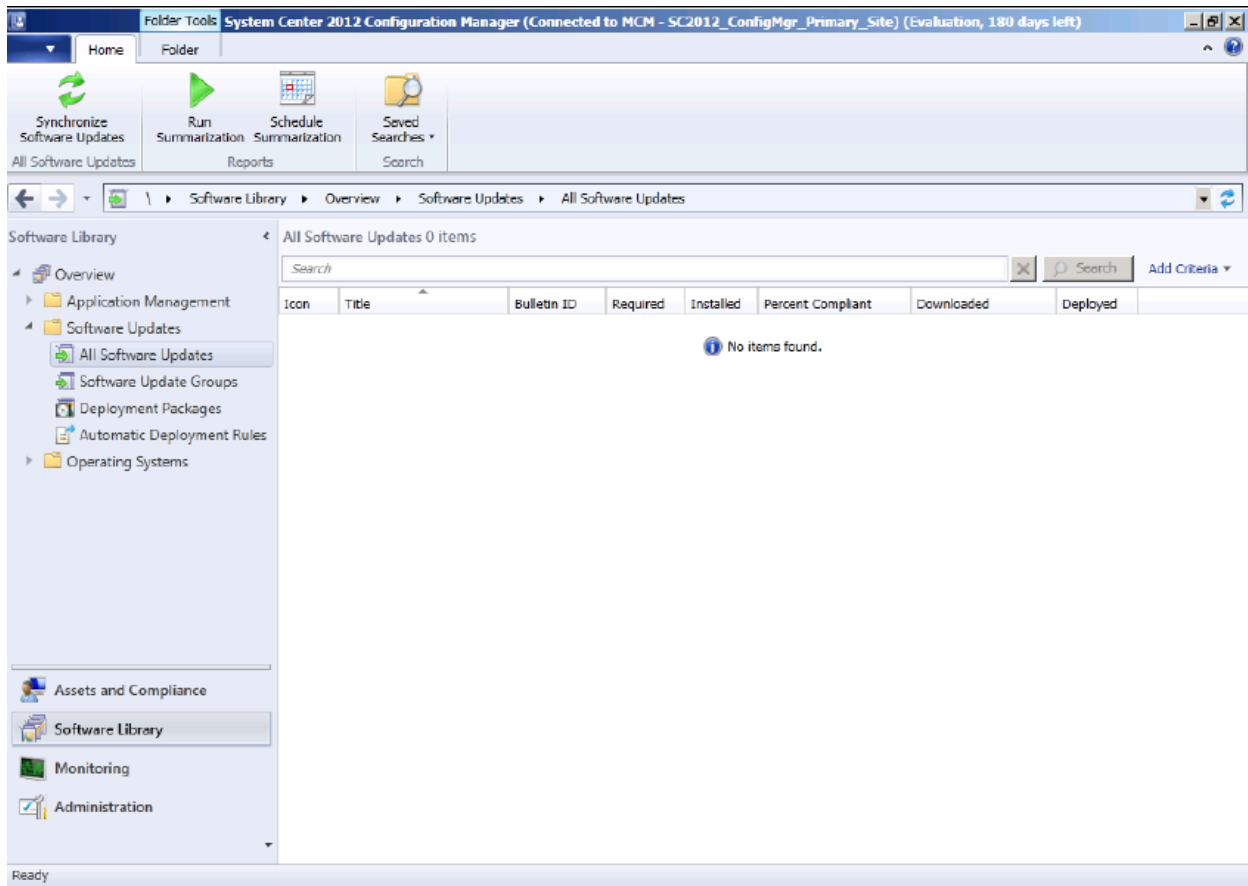


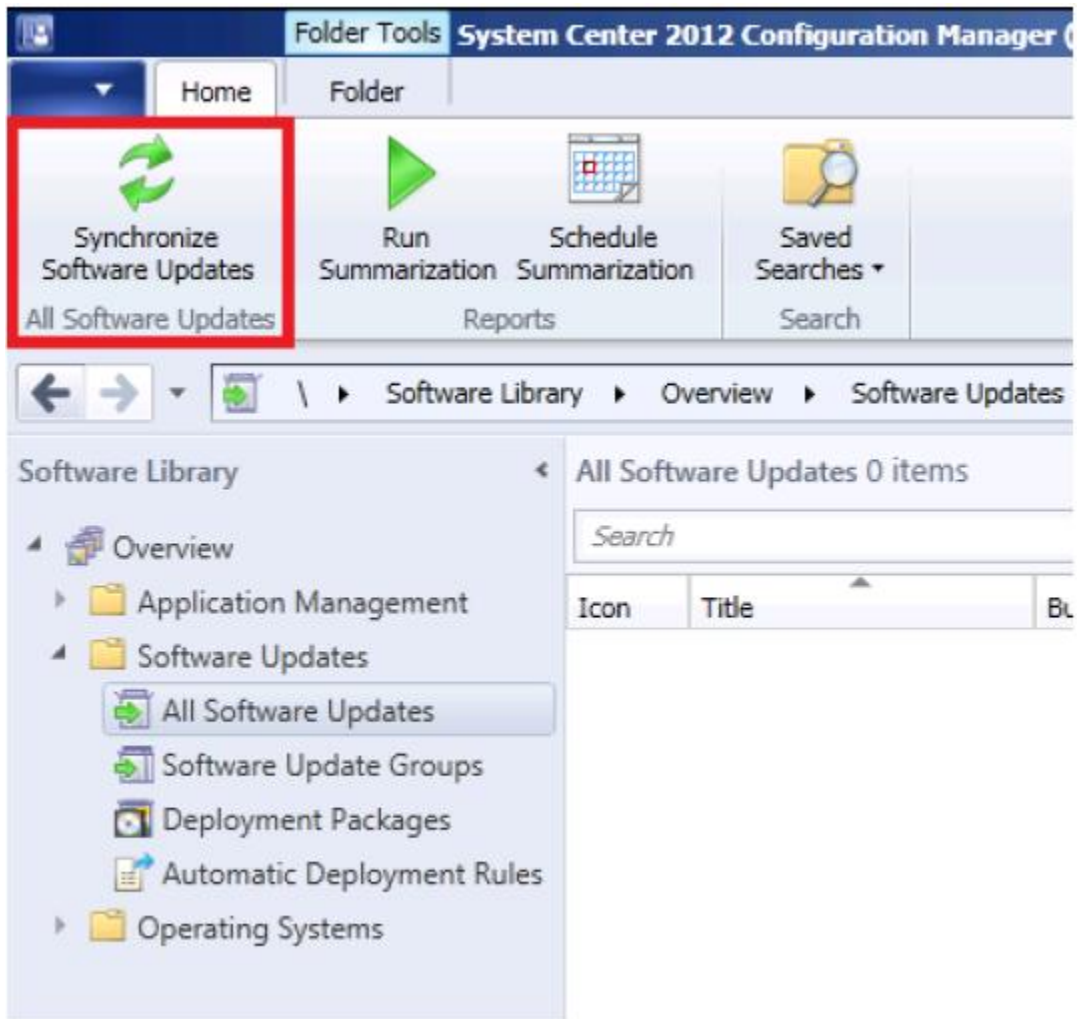
Figure 26. All Software Updates.



By Default, no updates are listed under the All Software Updates because synchronization has not yet occurred.

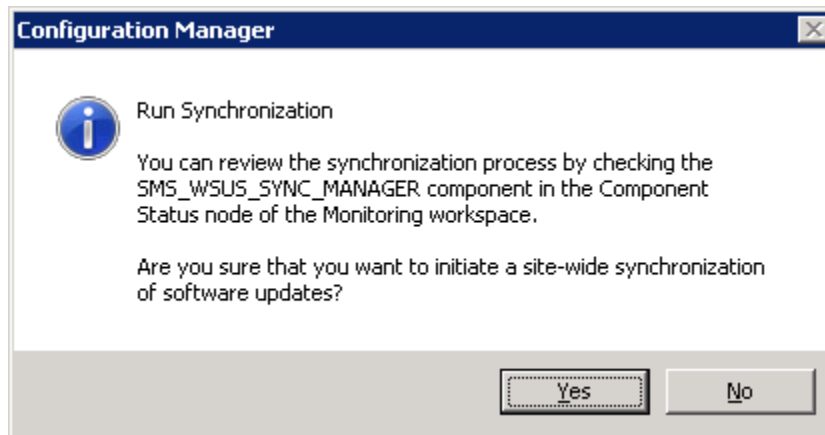
Synchronizing software updates

Figure 27. Synchronizing all software updates.



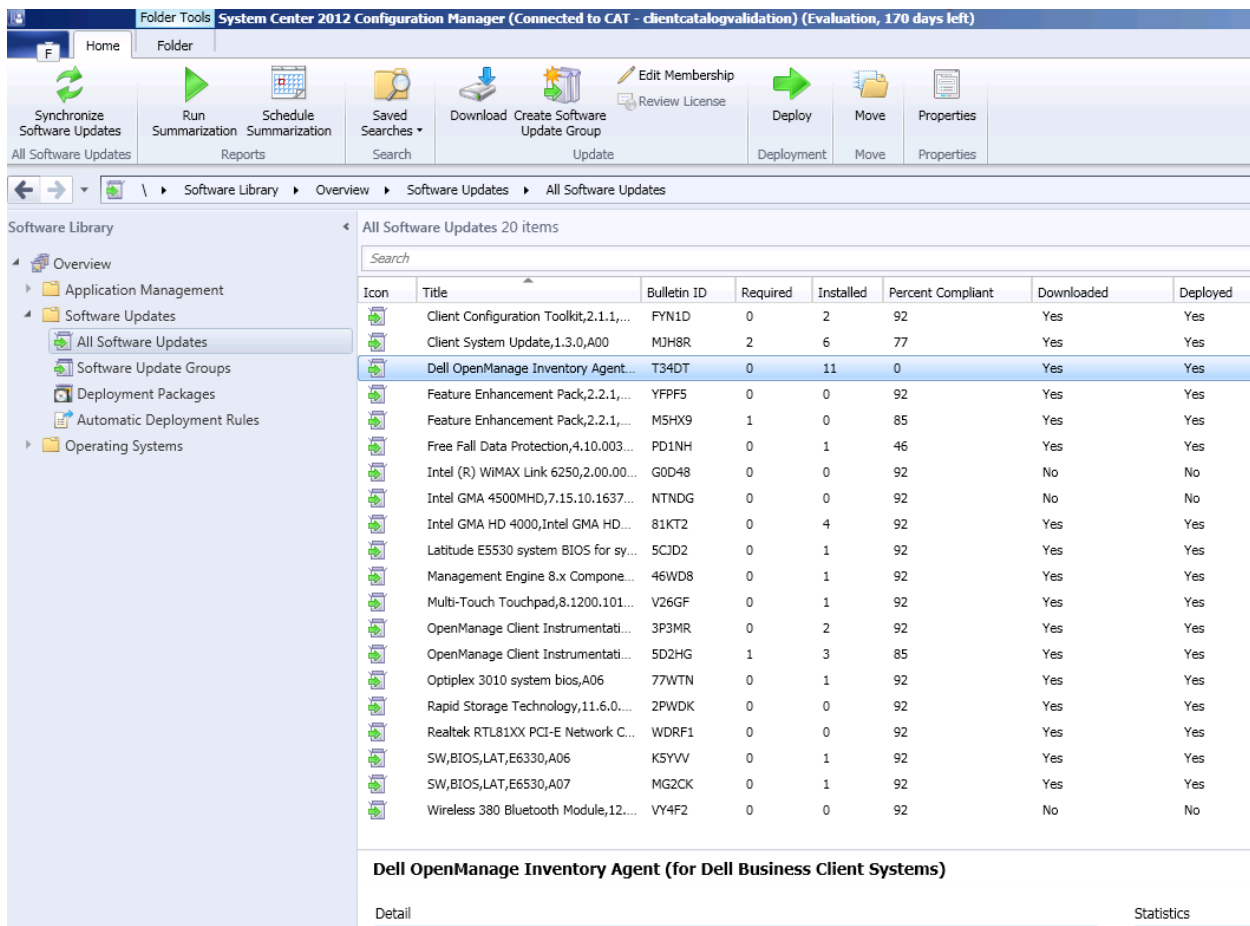
1. In Config Manager Console, click **Synchronize Software Updates**.

Figure 28. Running synchronization.



2. When the Configuration Manager dialog box appears, click **Yes**.
3. Once synchronization completes, navigate to **All Software Updates**, right-click and refresh. Updates published by SCUP display in the SCCM console as shown below.

Figure 29. Viewing published updates.



Deploying updates to target client systems

1. Select the **Dell OpenManage Inventory Agent (DSIA)** update and then click **Deploy**.

Figure 30. Selecting Dell OpenManage Inventory Agent.

The screenshot shows the SCCM 2012 Configuration Manager console. The left pane shows the 'Software Library' tree with 'All Software Updates' selected. The main pane displays a list of 20 software updates. The 'Dell OpenManage Inventory Agent' update is highlighted, and a context menu is open over it, with the 'Deploy' option selected.

Icon	Title	Bulletin ID	Required	Installed	Percent Compliant	Downloaded	Deployed
	Client Configuration Toolkit,2.1.1,...	FYNID	0	2	92	Yes	Yes
	Client System Update,1.3.0,A00	MJH8R	2	6	77	Yes	Yes
	Dell OpenManage Inventory Agent	T34DT	0	11	0	Yes	Yes
	Feature Enhancement				92	Yes	Yes
	Feature Enhancement				85	Yes	Yes
	Free Fall Data Protect				46	Yes	Yes
	Intel (R) WIMAX Link				92	No	No
	Intel GMA 4500MHD,				92	No	No
	Intel GMA HD 4000,I				92	Yes	Yes
	Latitude E5530 syste				92	Yes	Yes
	Management Engine				92	Yes	Yes
	Multi-Touch Touchpad,8:1200:101...	V26GF	0	1	92	Yes	Yes
	OpenManage Client Instrumentati...	3P3MR	0	2	92	Yes	Yes
	OpenManage Client Instrumentati...	5D2HG	1	3	85	Yes	Yes
	Optiplex 3010 system bios,A06	77WTN	0	1	92	Yes	Yes
	Rapid Storage Technology,11.6.0....	2PWDK	0	0	92	Yes	Yes
	Realtek RTL81XX PCI-E Network C...	WDRF1	0	0	92	Yes	Yes
	SW,BIOS,LAT,E6330,A06	KSYVY	0	1	92	Yes	Yes
	SW,BIOS,LAT,E6530,A07	MG2CK	0	1	92	Yes	Yes
	Wireless 380 Bluetooth Module,12...	VY4F2	0	0	92	No	No

Dell OpenManage Inventory Agent (for Dell Business Client Systems)

Detail Statistics

2. In the Deploy Software Updates Wizard, type a description and then browse to select the **Collections**.

Figure 31. Specifying general information for this deployment.

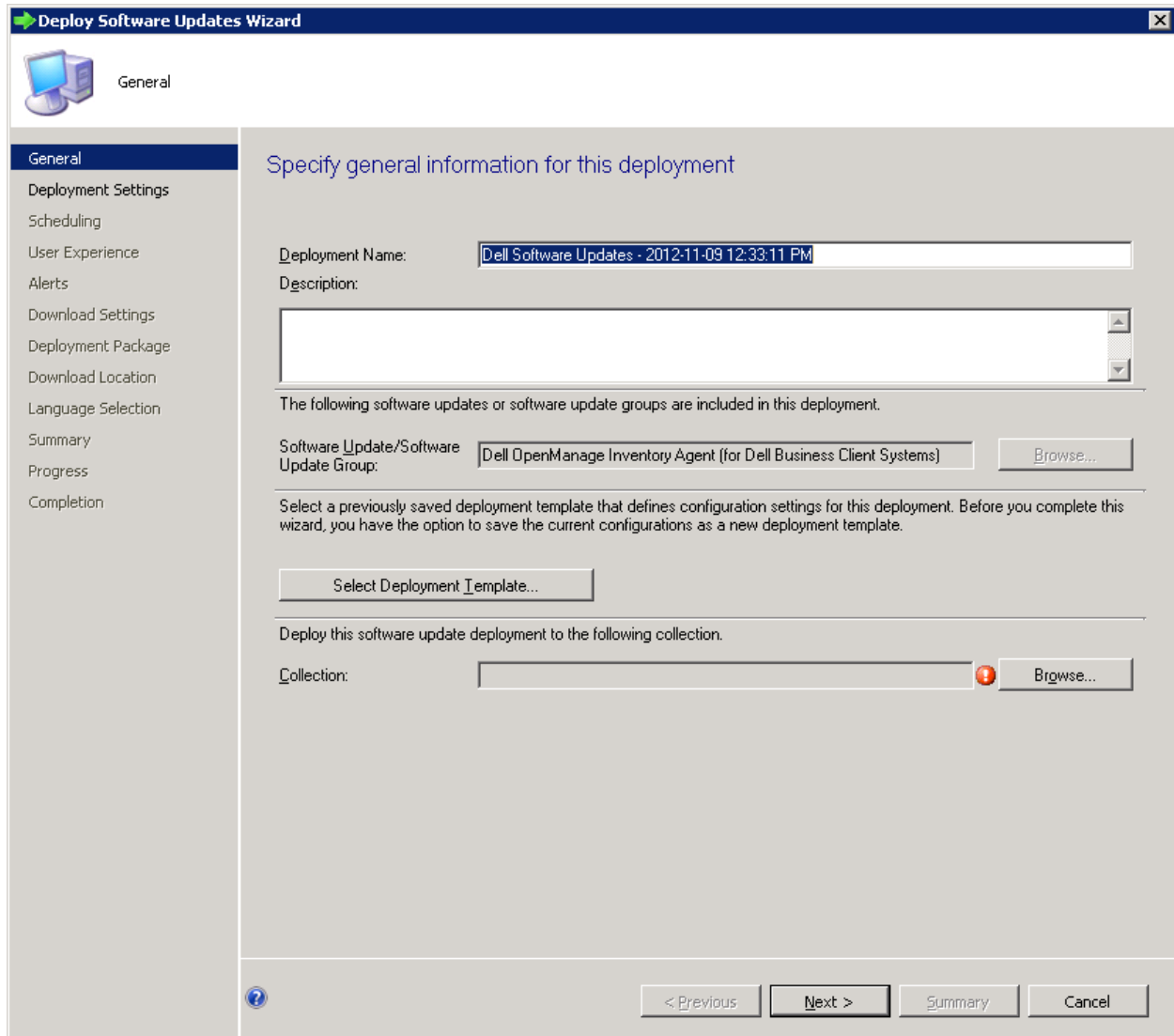
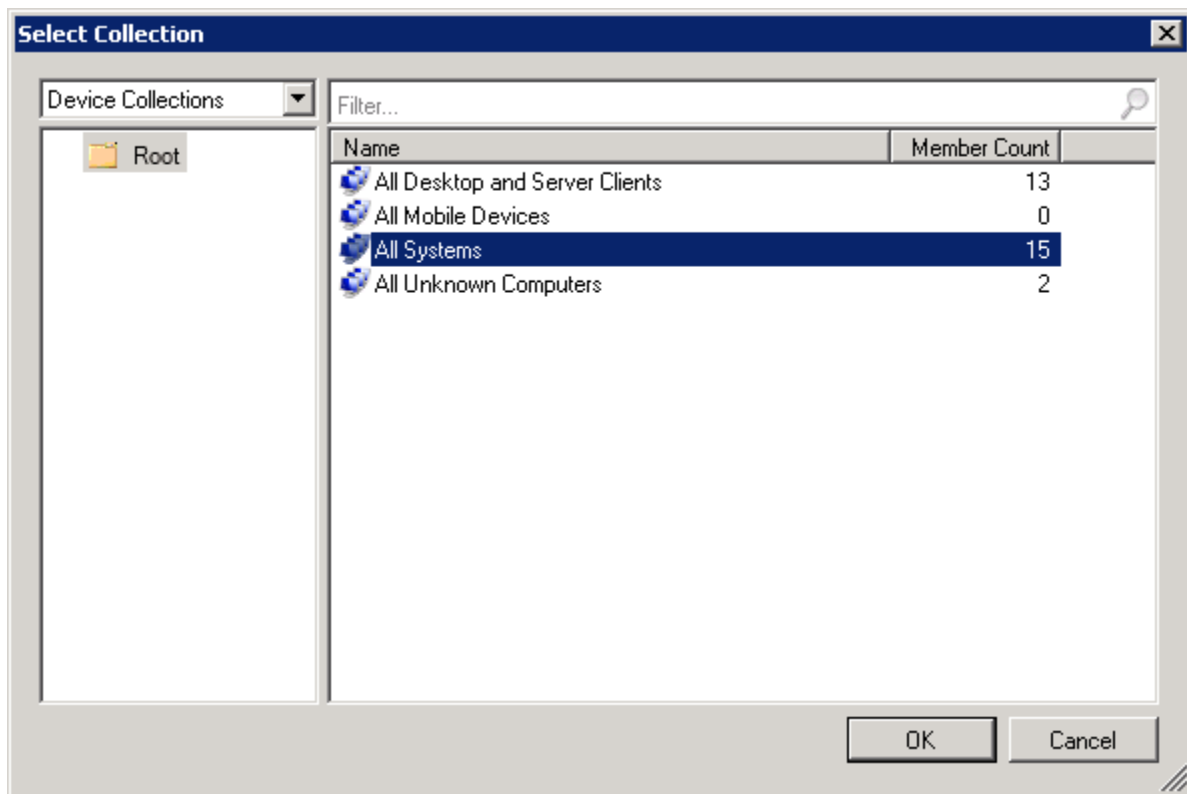
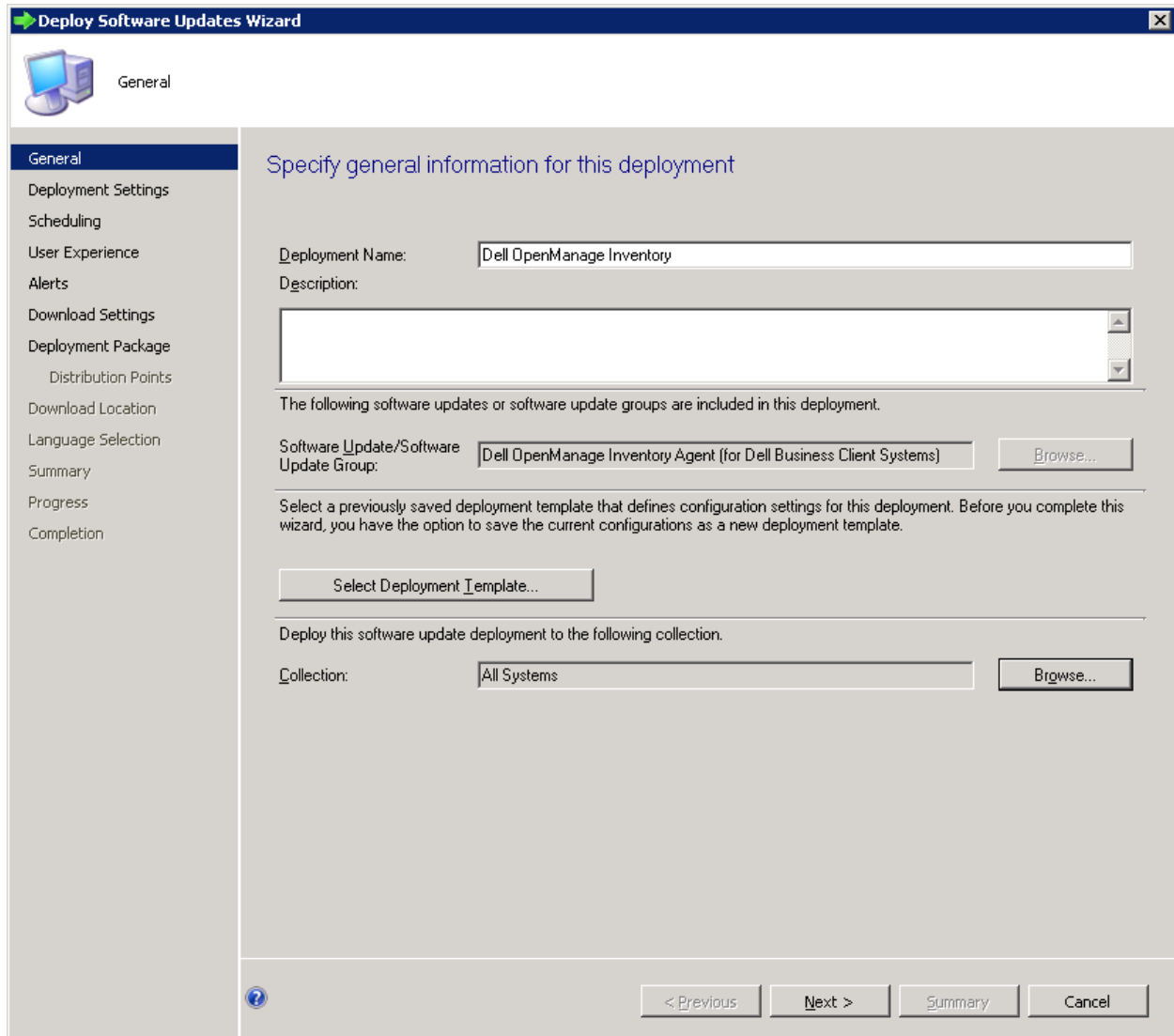


Figure 32. Selecting Device Collection.



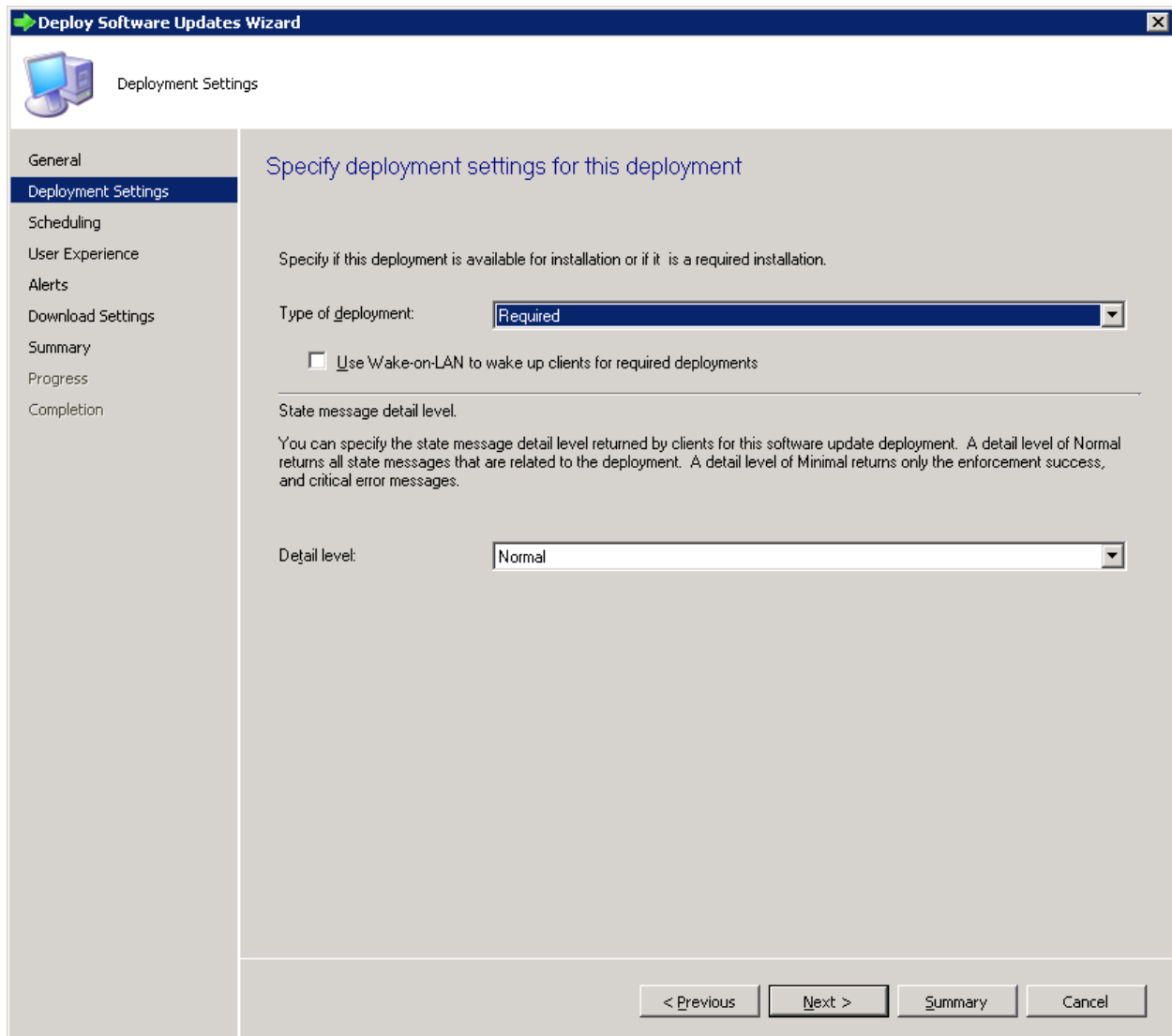
3. Select the **Device Collection**.

Figure 33. Specifying deployment information.



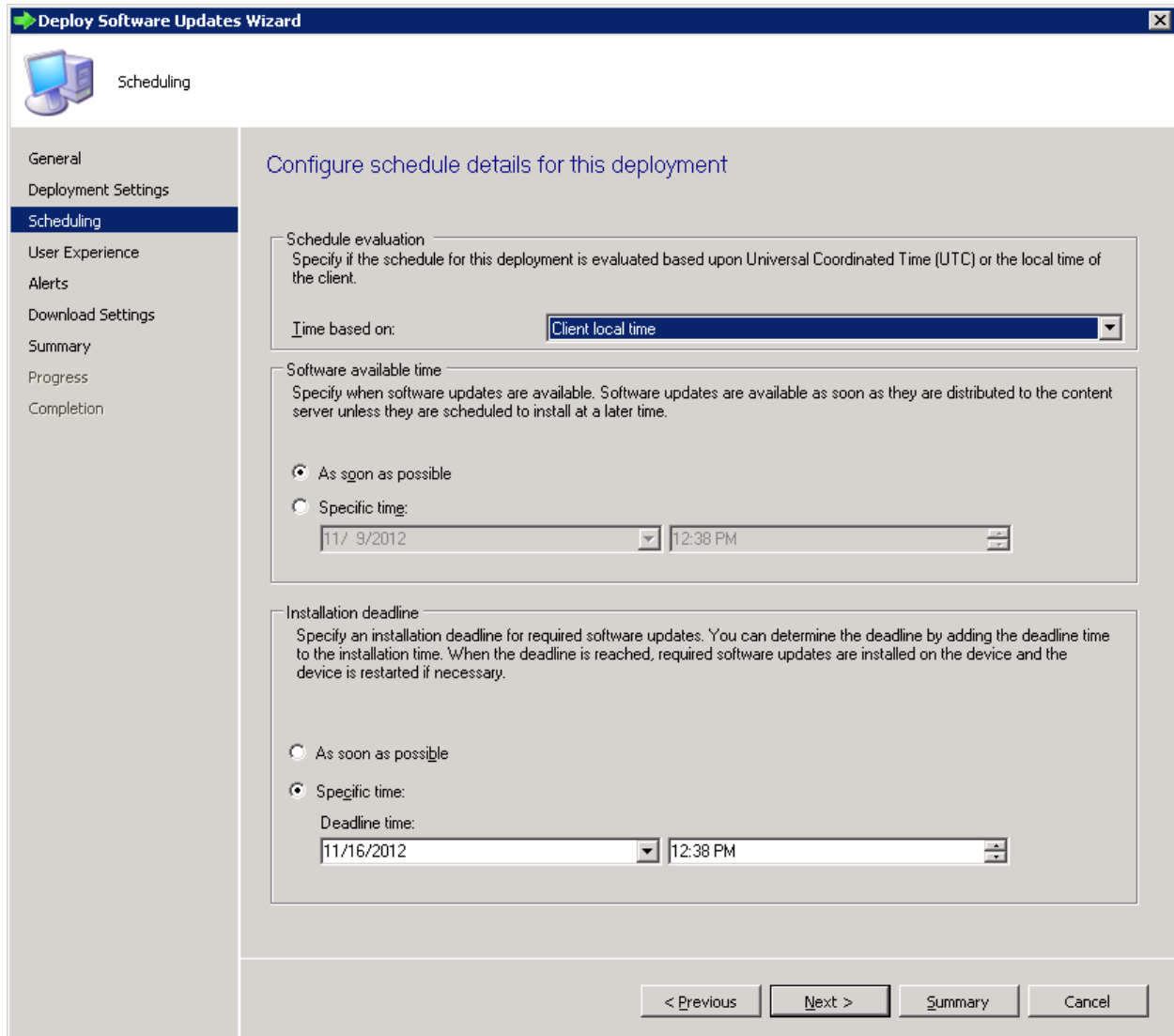
4. Click Next.

Figure 34. Specifying deployment settings.



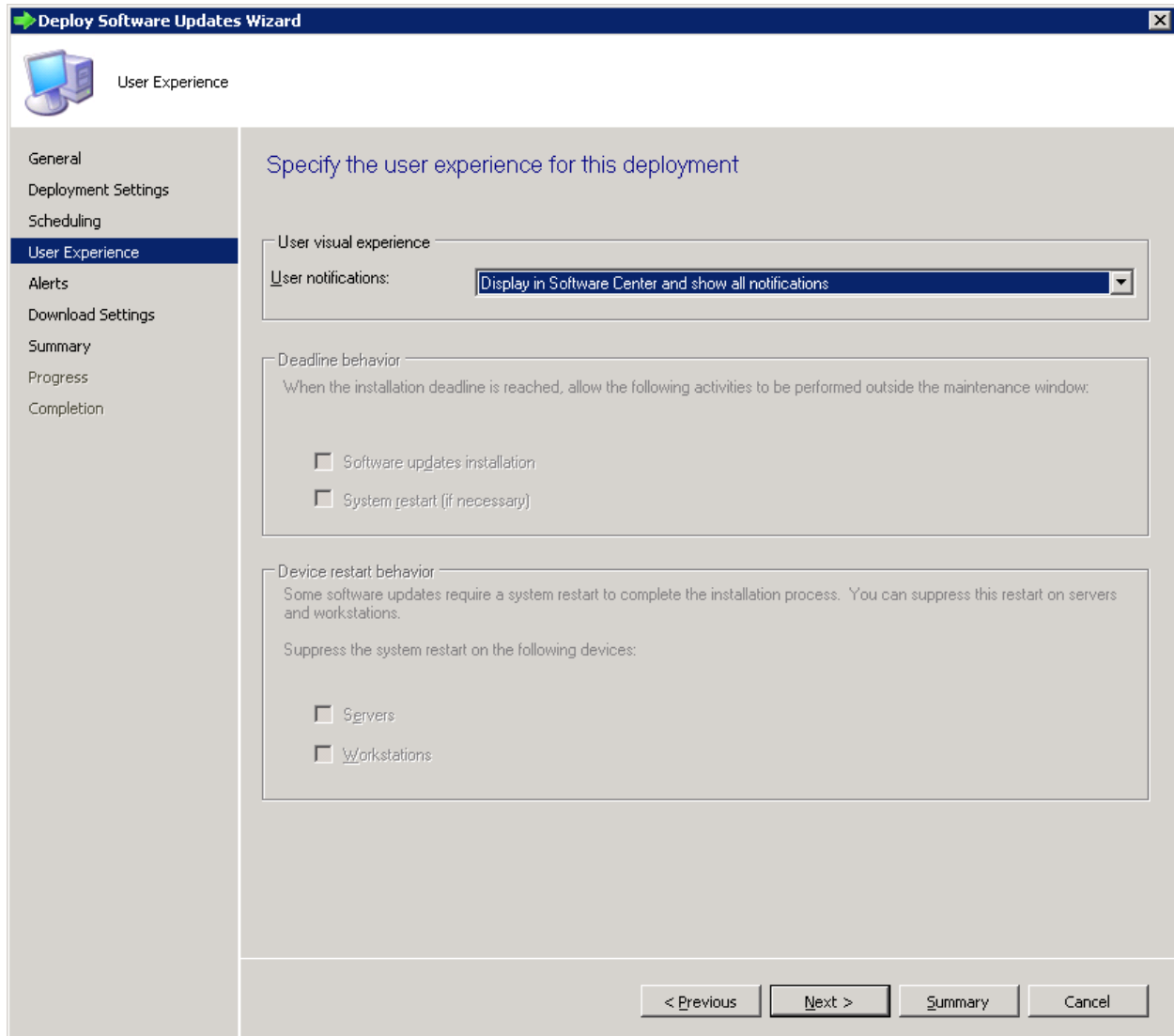
5. Select a Deployment type from the Type of deployment drop-down list. The options are: **Required (Mandatory)** or **Available (Optional)**.
6. To configure scheduling when the deployment is available to be installed on the client, click **Next**.

Figure 35. Configuring scheduling details for deployment.



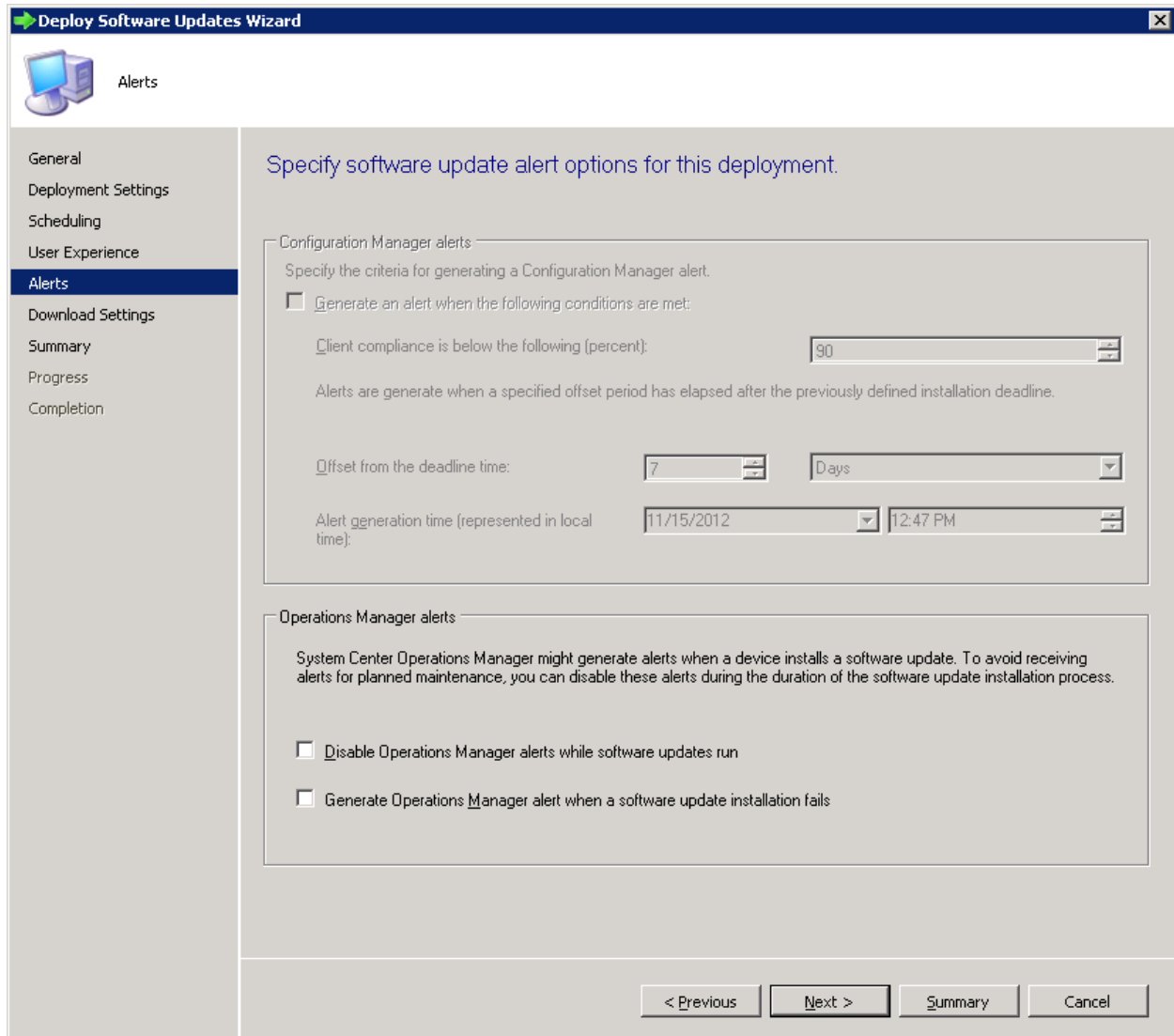
7. Set the Installation Deadline. The installation deadline allows the required updates to install when the deadline is reached.

Figure 36. Specifying the user experience.



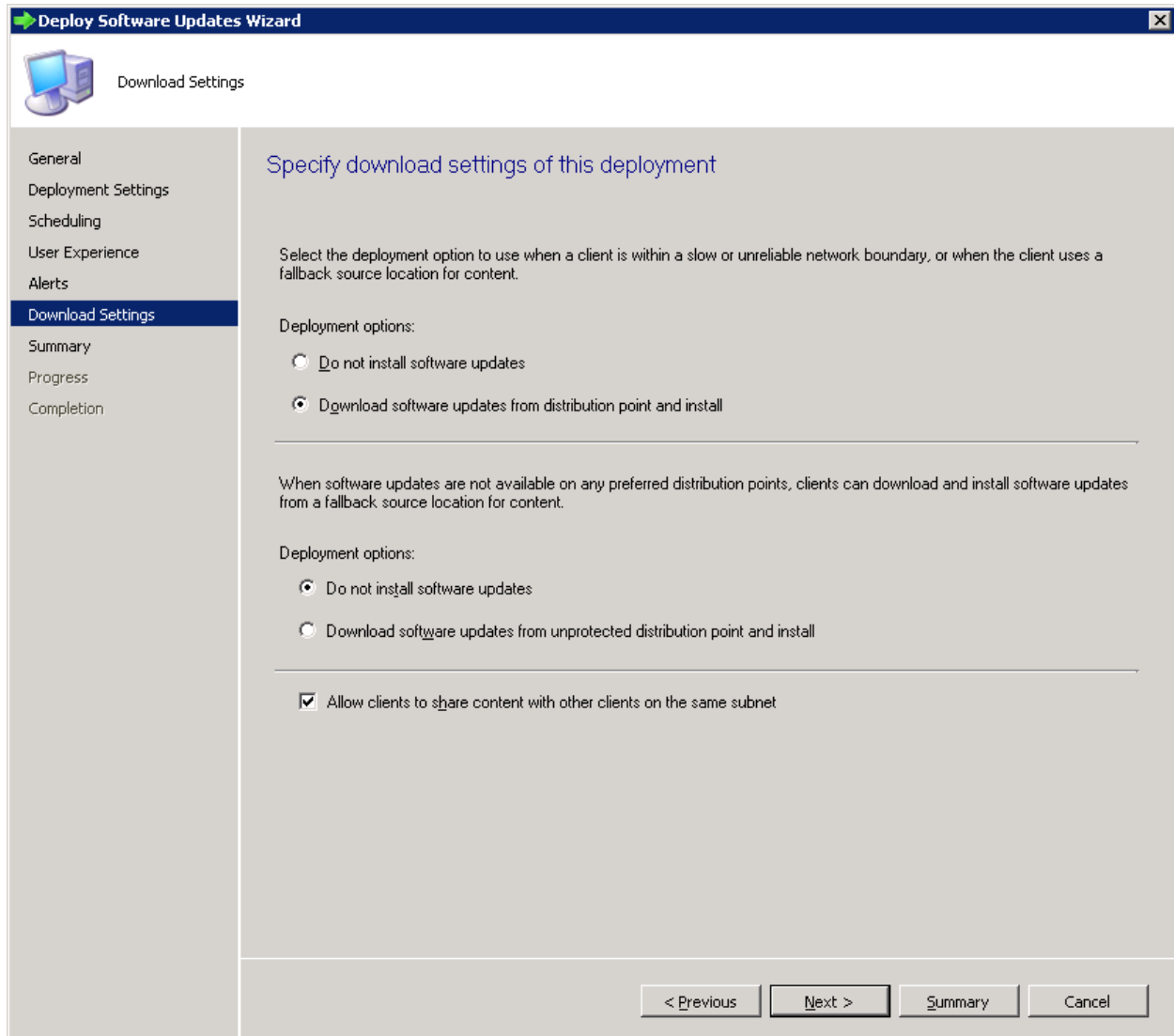
8. Click Next.

Figure 37. Specifying the software update alert options.



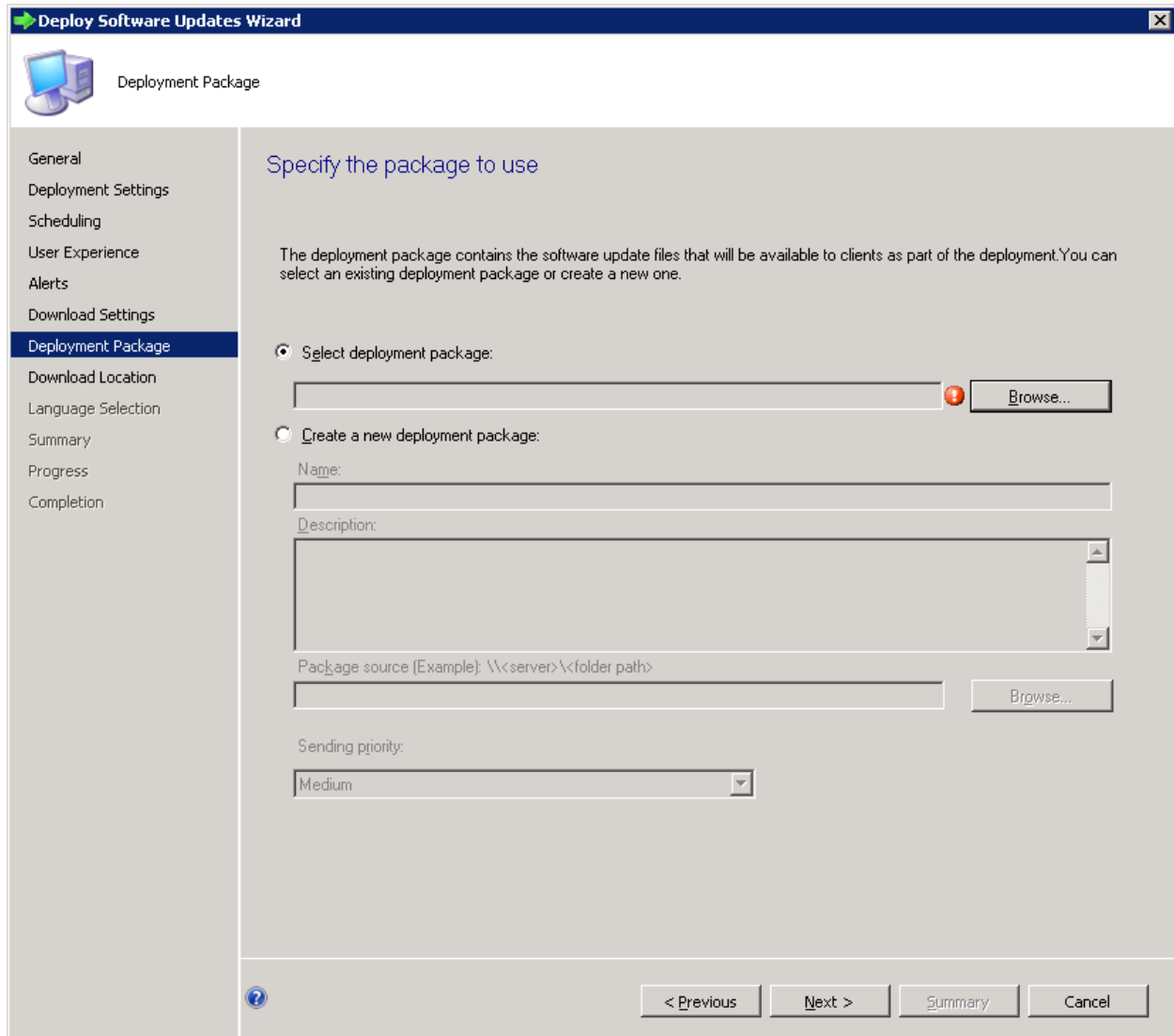
9. Click Next.

Figure 38. Specifying download settings.



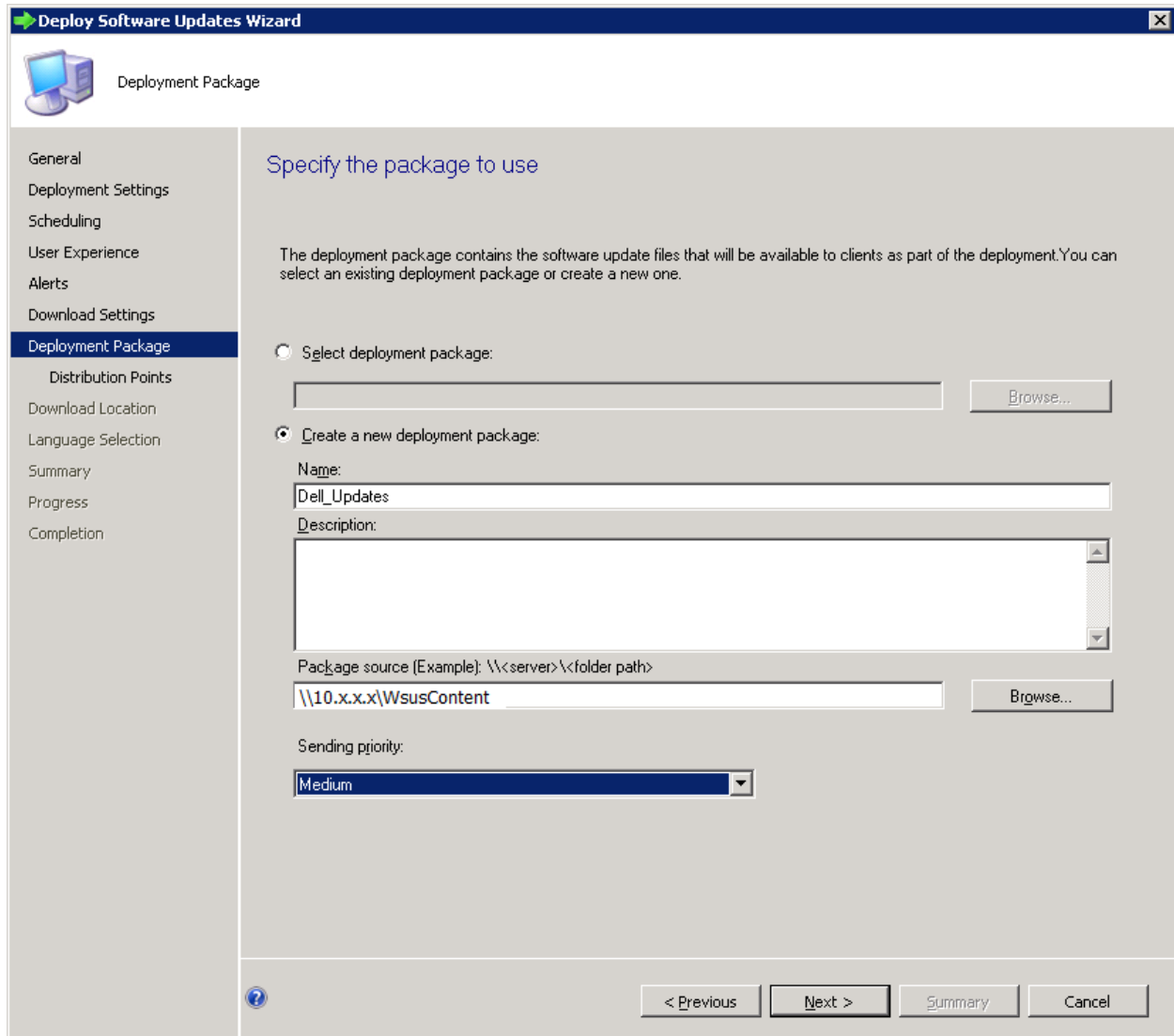
10. To select the deployment packages, click **Next**.

Figure 39. Specifying the package.



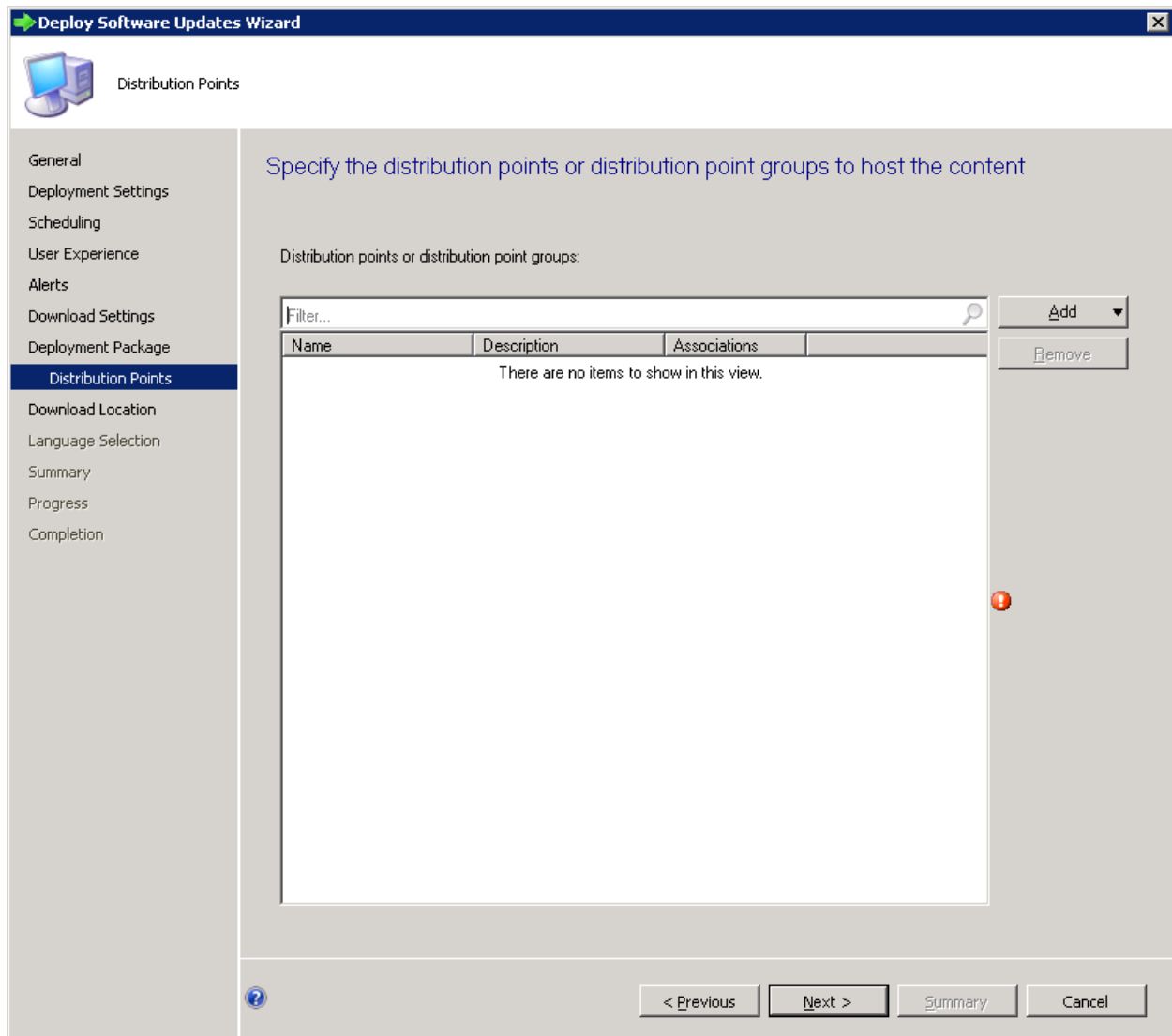
11. Create a new deployment package based on user requirements.

Figure 40. Specifying the package to use.



12. Click Next.

Figure 41. Specifying the distribution point groups.



13. Add Distribution Points.

Figure 42. Add Distribution Points dialog box.

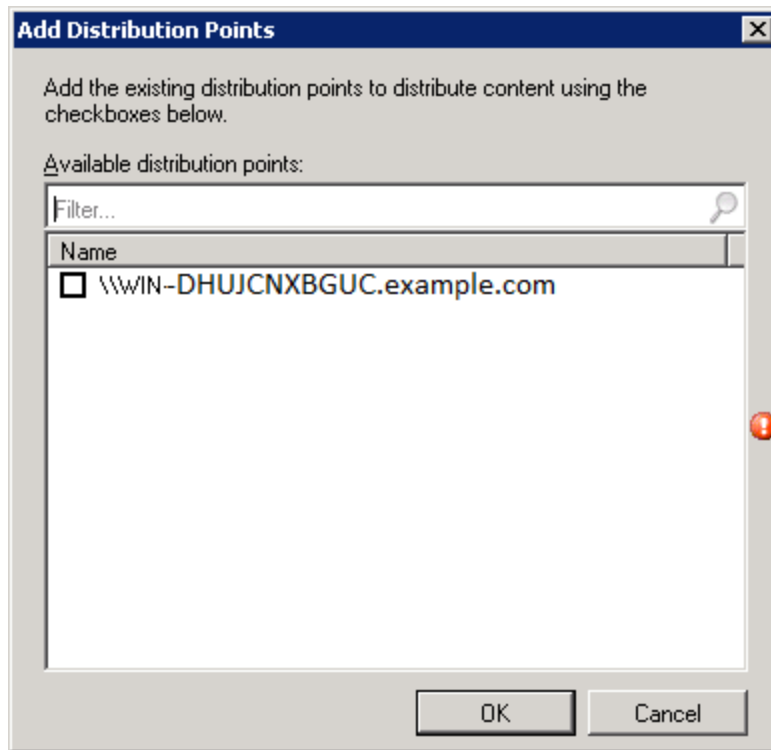
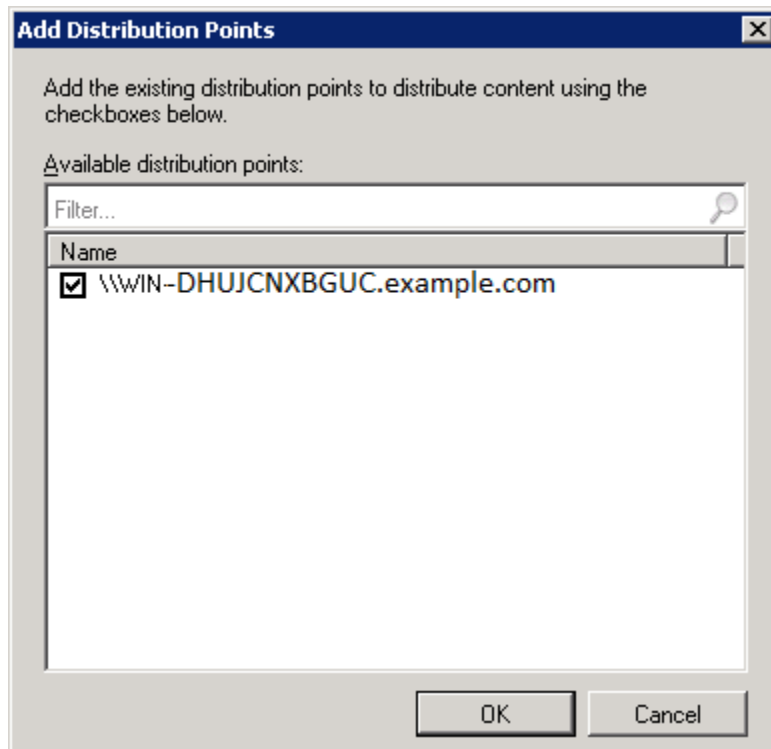
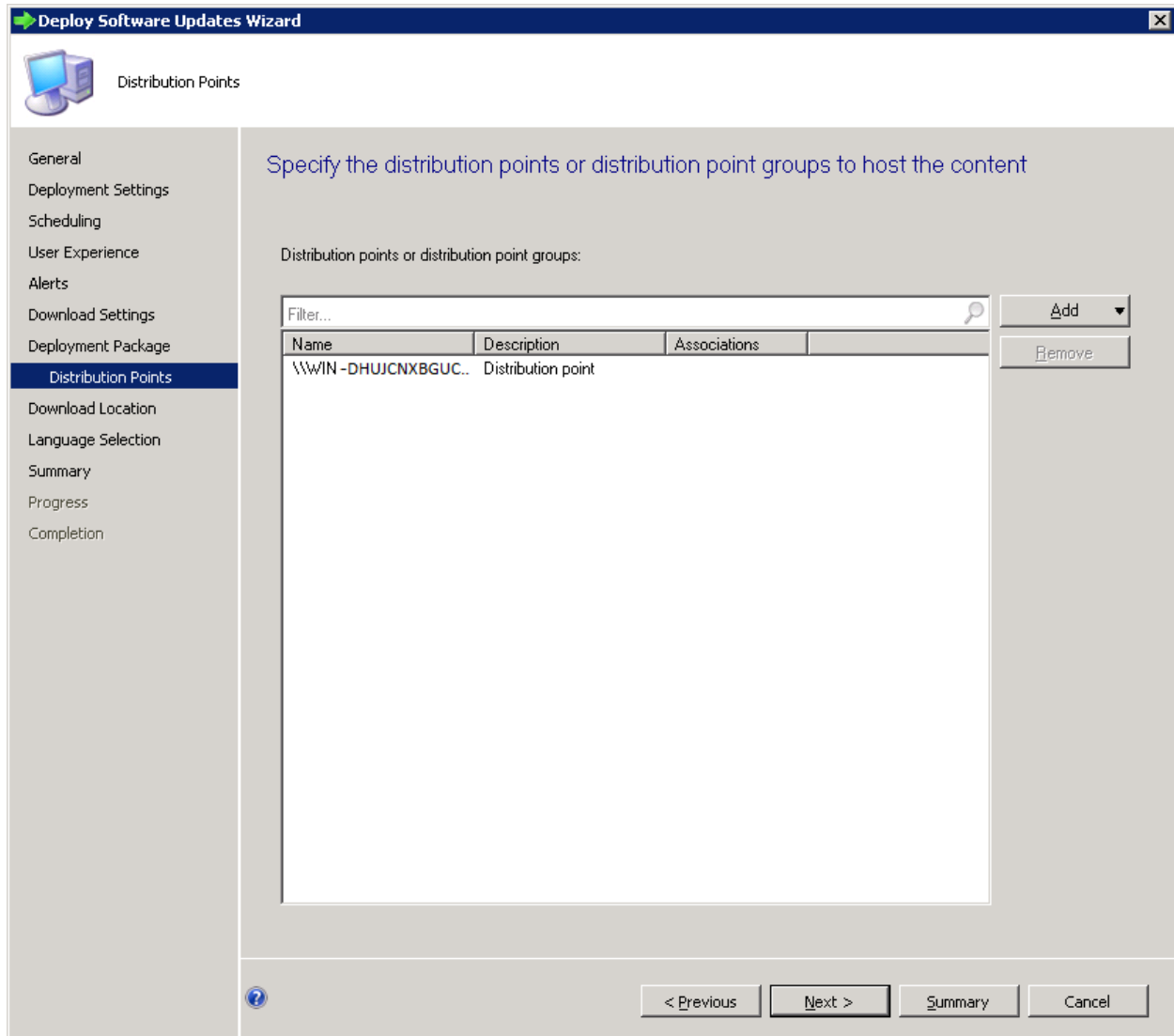


Figure 43. Select the Distribution point Name check box.



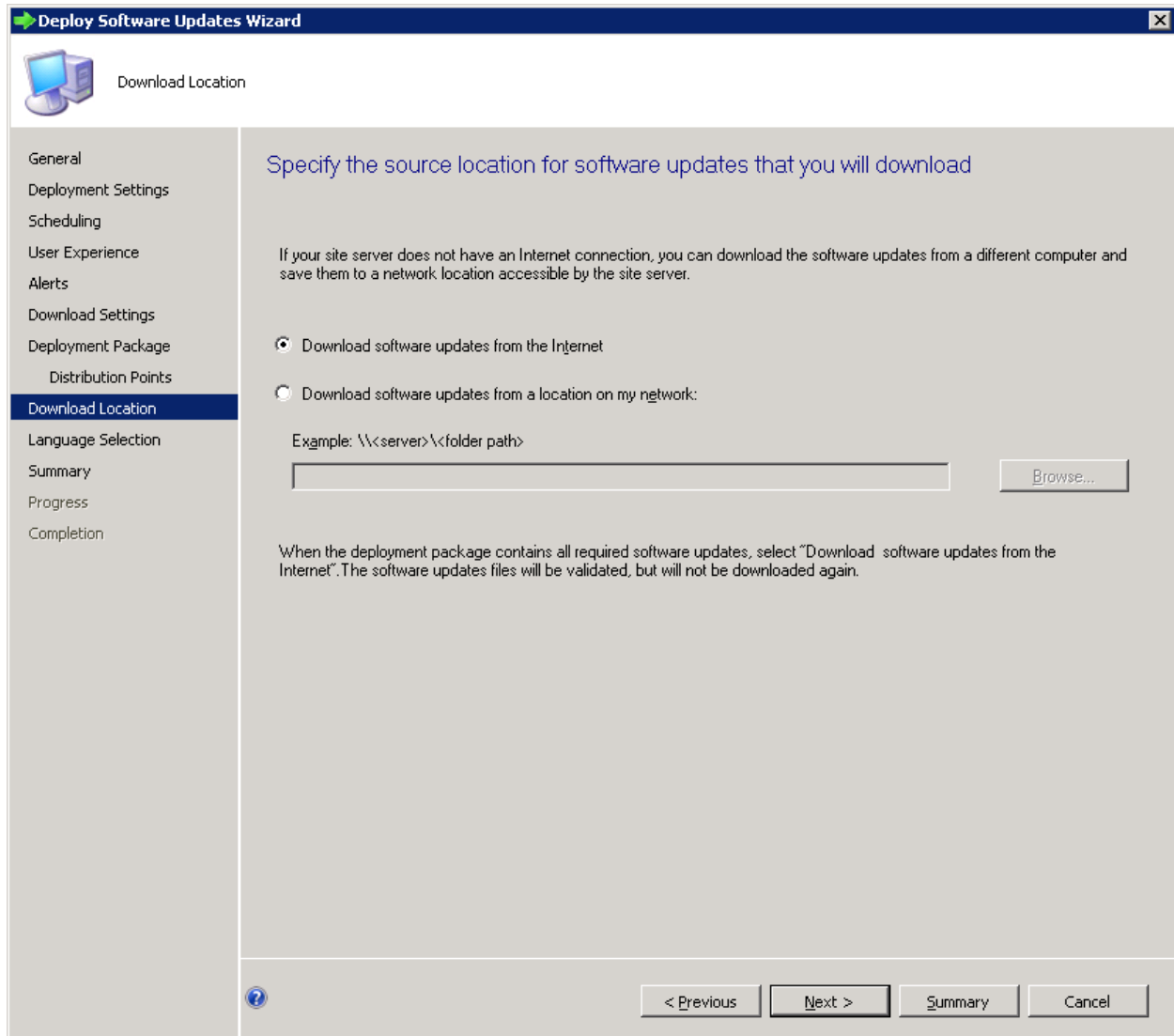
14. Select the Distribution Point, and then click **OK**.

Figure 44. Specifying the distribution points or point groups to host the content.



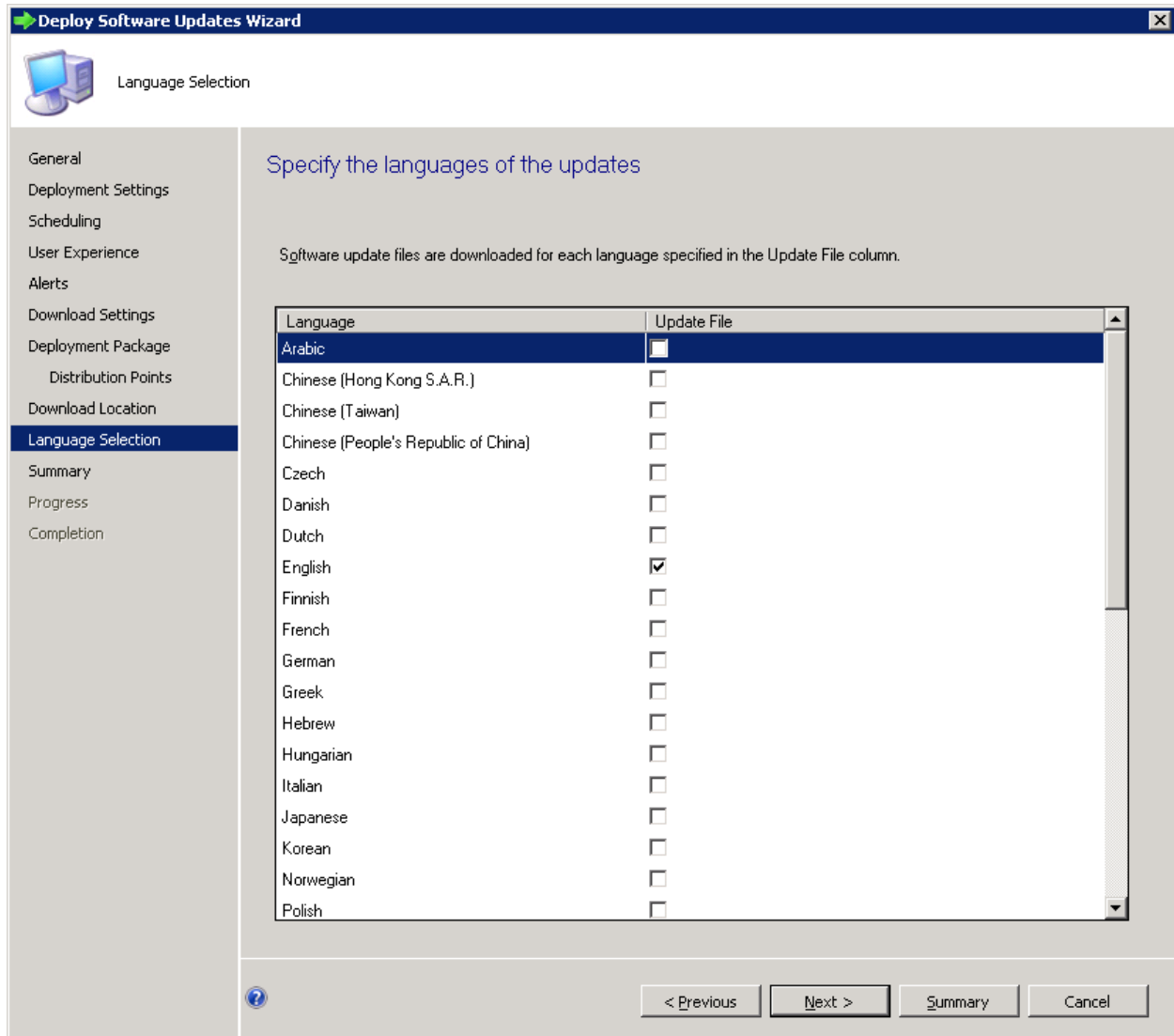
15. Click Next.

Figure 45. Specifying the software update source location.



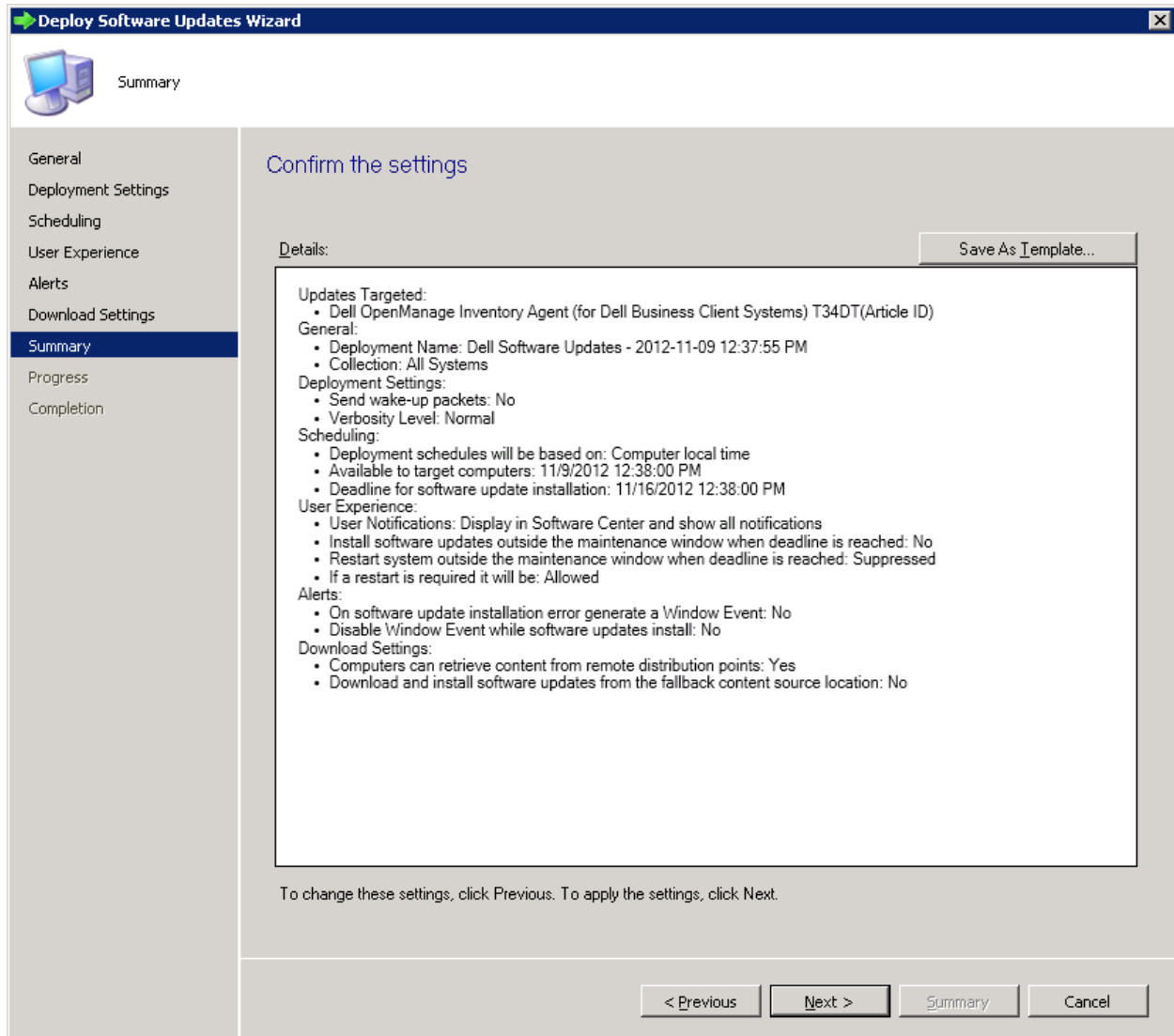
16. Click Next.

Figure 46. Specifying update languages.



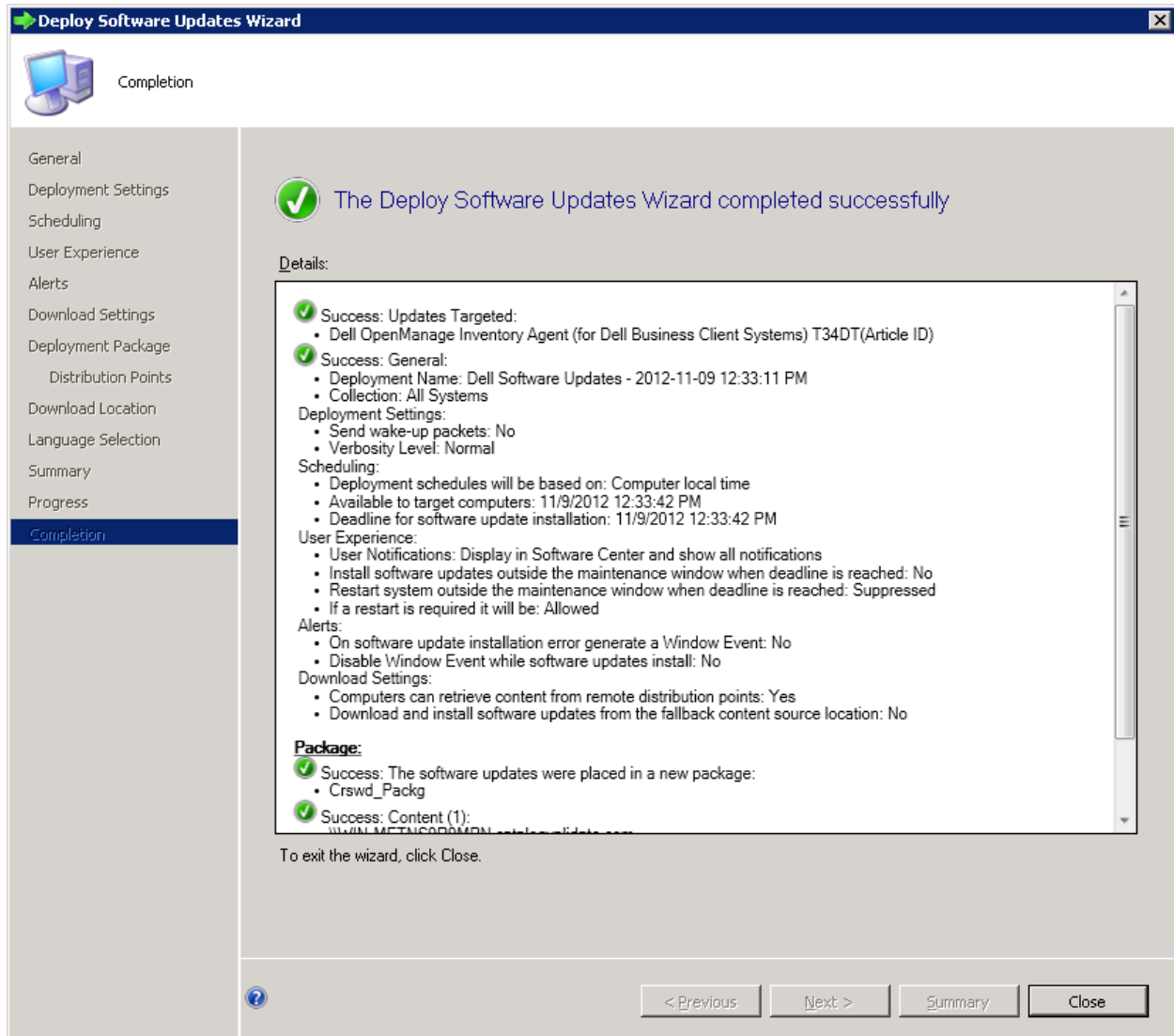
17. Click Next.

Figure 47. Confirming the settings.



18. Confirm the settings and click **Next**.

Figure 48. Viewing the completion status message.



19. Click **Close**.

Use the above steps (Deploy updates to target Client Systems) to deploy other updates like BIOS, Application or Drivers on the target client Systems.

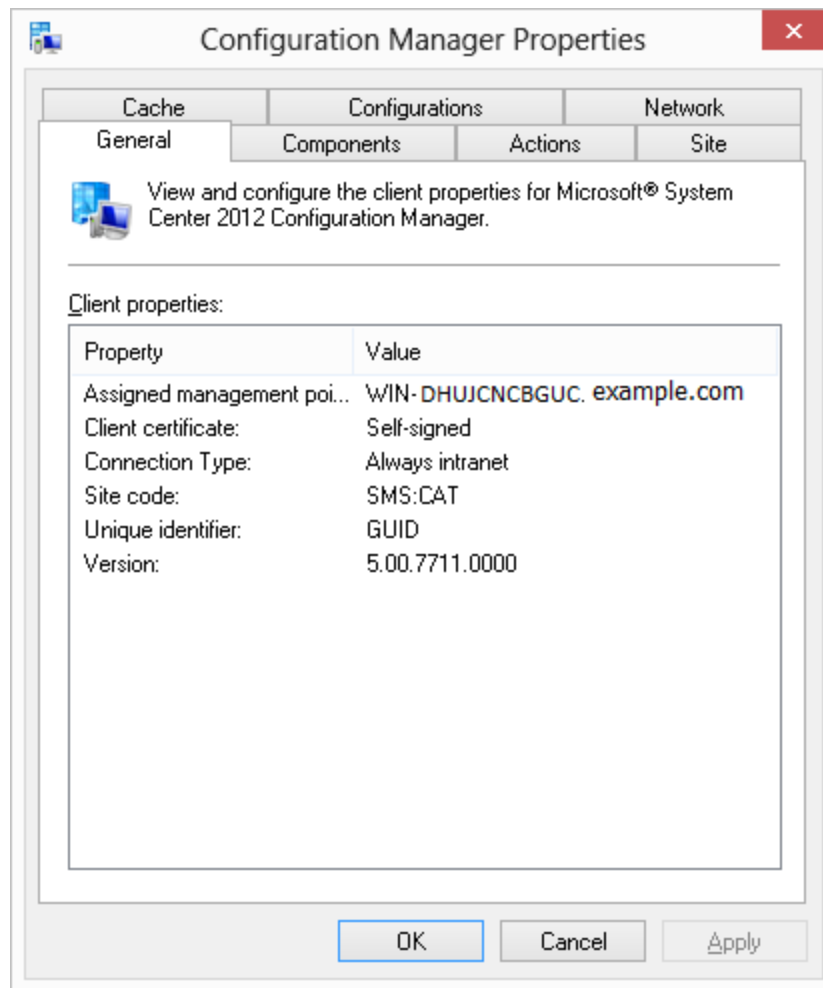
Note: You can choose to deploy all updates at once, but make sure that you deploy DSIA first before you deploy the other updates.

Initiating the actions on the client side

On the target client systems where you want to deploy the updates do the following:

1. Go to control panel-> **Configuration Manager**.

Figure 49. Viewing the Configuration Manager Properties file.



2. Select the **Actions** tab.

Figure 50. Configuration Manager: Action tab.

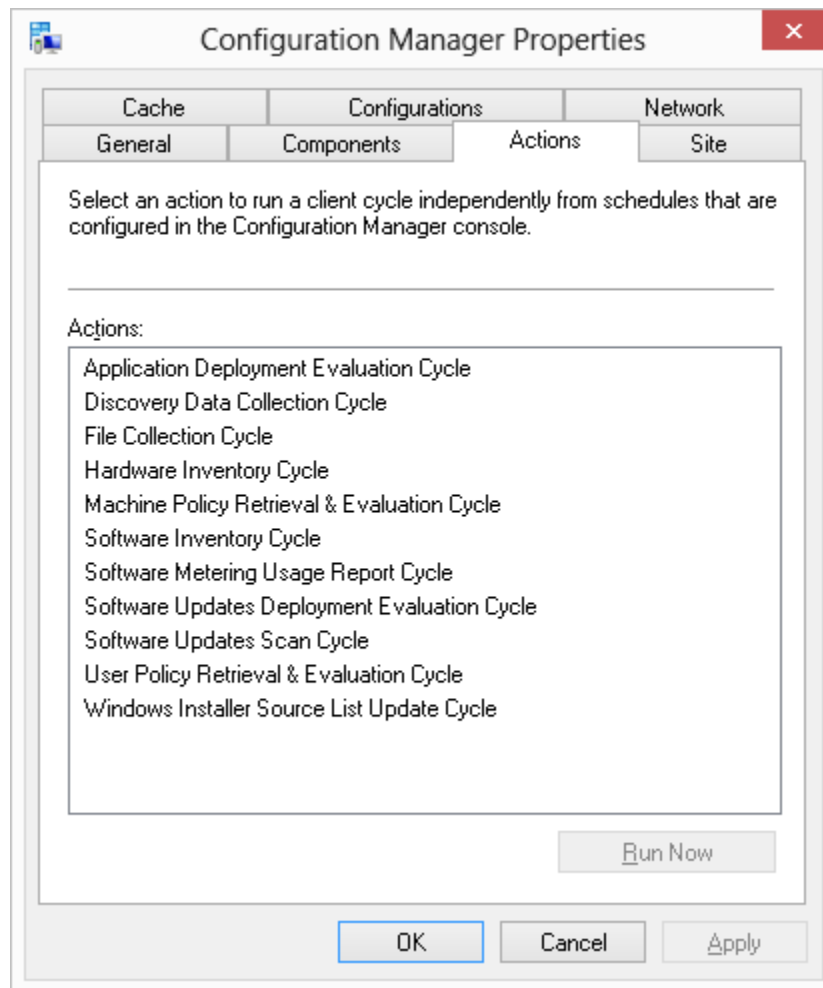
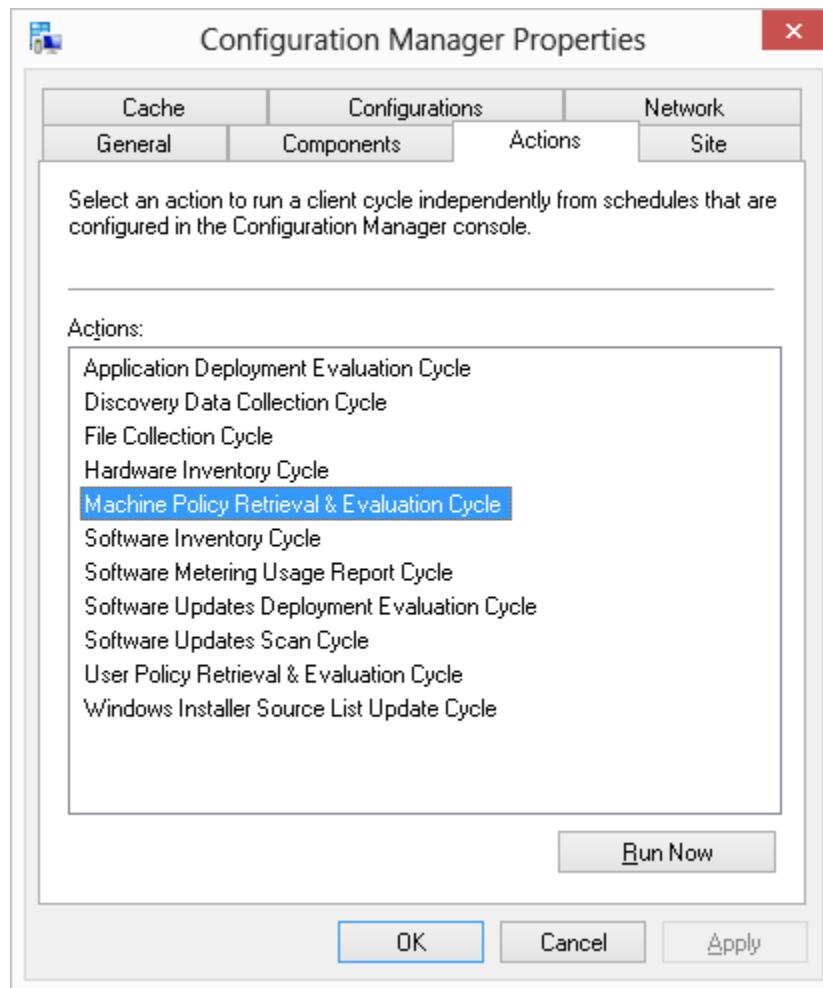
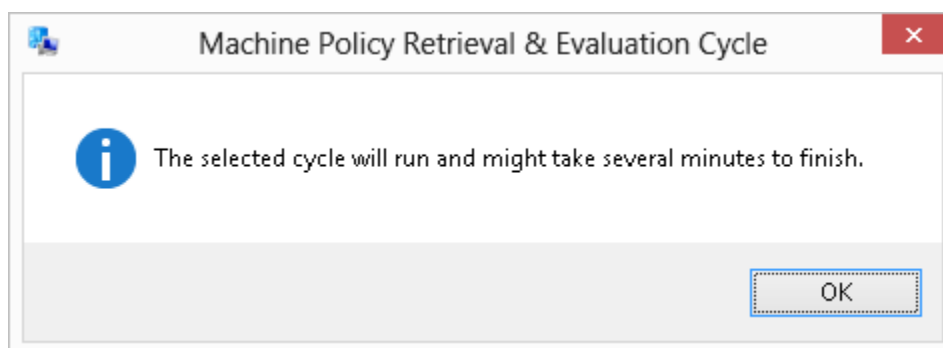


Figure 51. Selecting an action.



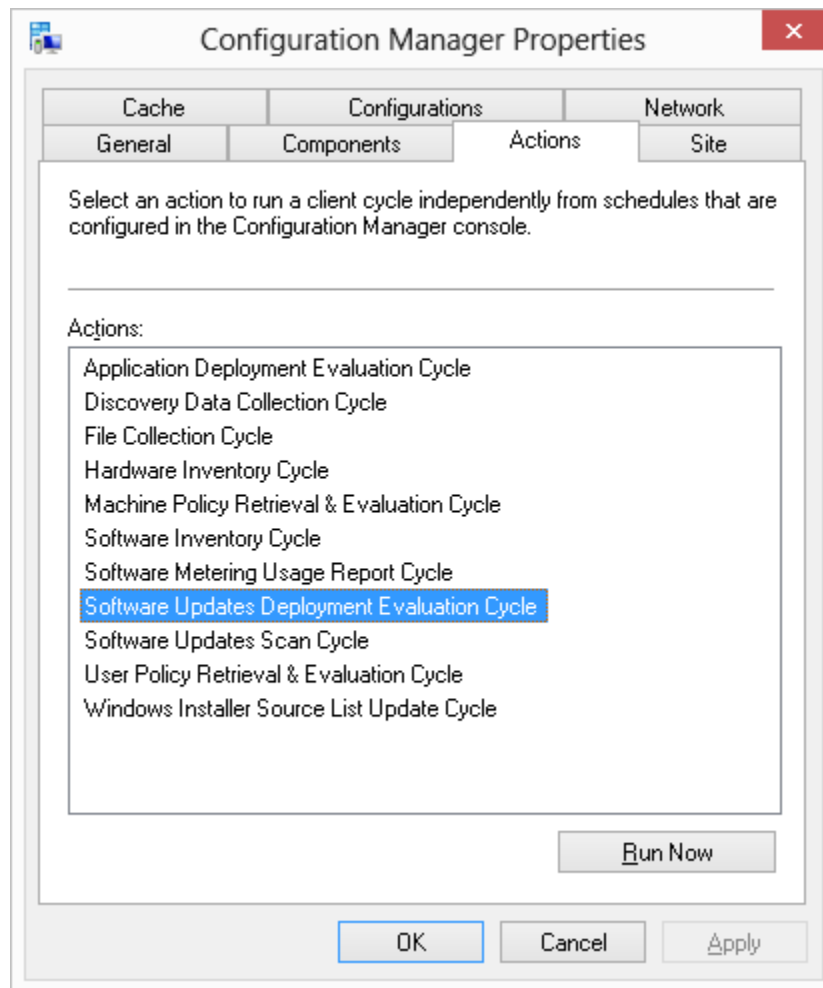
3. Select **Machine Policy Retrieval & Evaluation Cycle** and click **Run Now**.

Figure 52. Review the message dialog box.



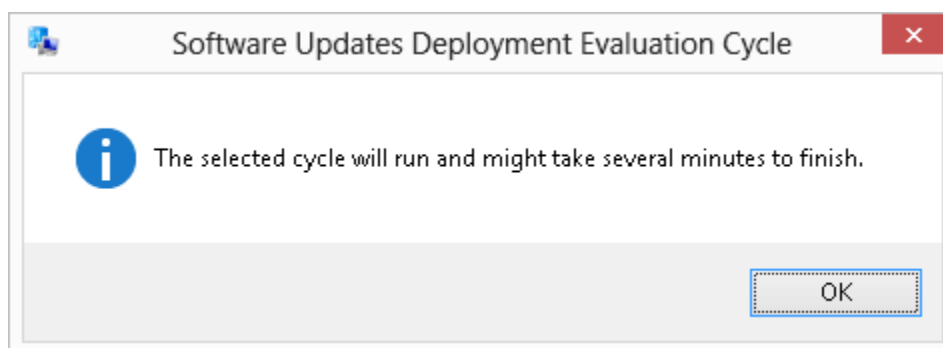
4. Click **OK**.

Figure 53. Selecting another action.



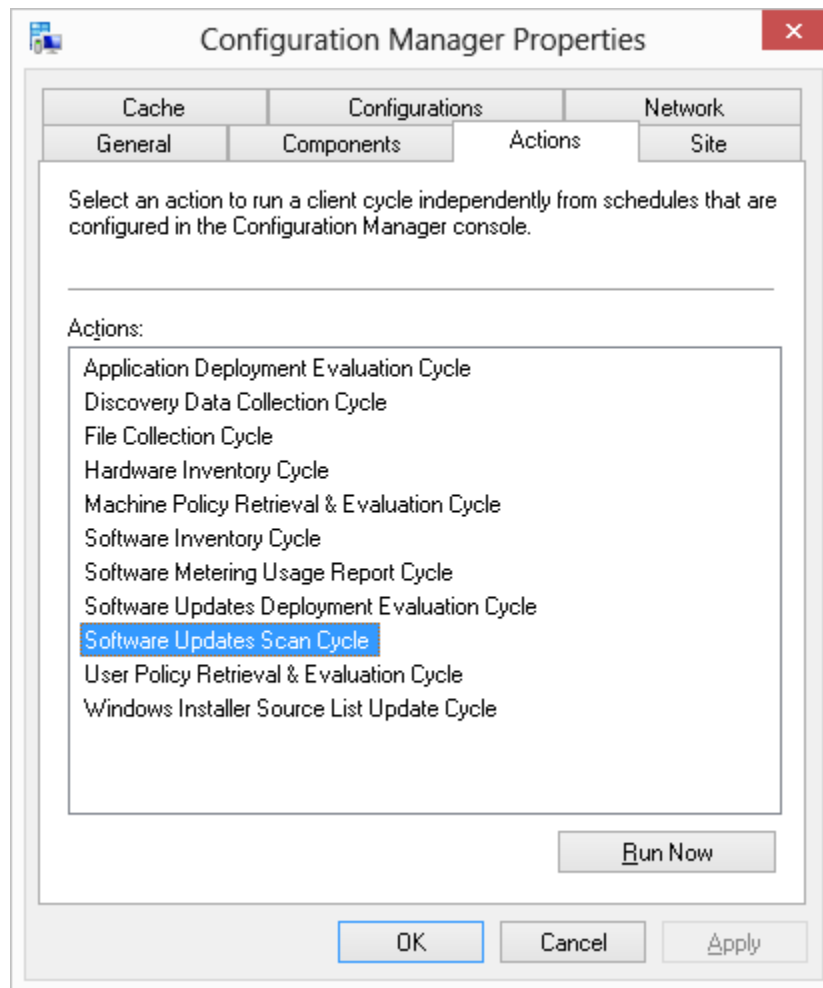
5. Select **Software Updates Deployment Evaluation Cycle** and click **Run Now**.

Figure 54. Review the message dialog box.



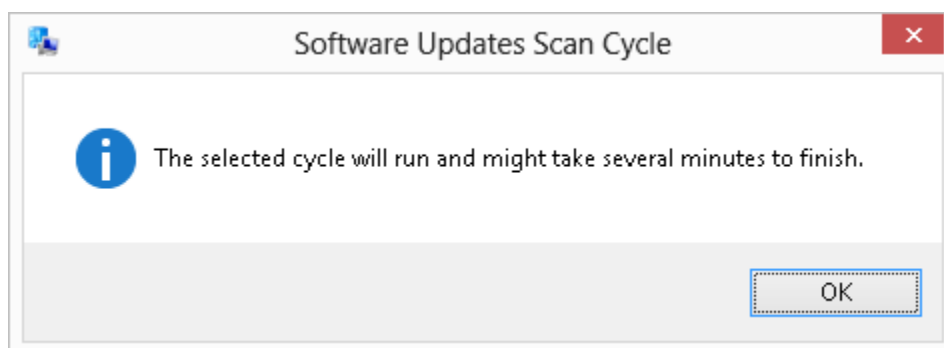
6. Click **OK**.

Figure 55. Select another action.



7. Select **Software Updates Evaluation Cycle** and click **Run Now**.

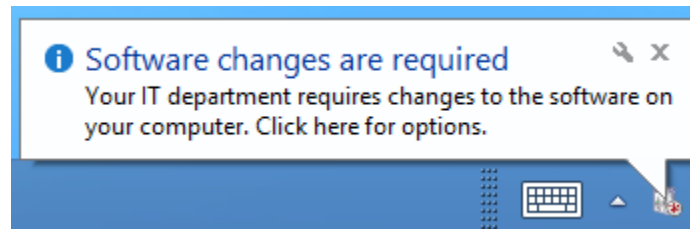
Figure 56. Review the message dialog box.



8. Click **OK**.

After Initiating the Cycles on the client side, an information message displays the following:

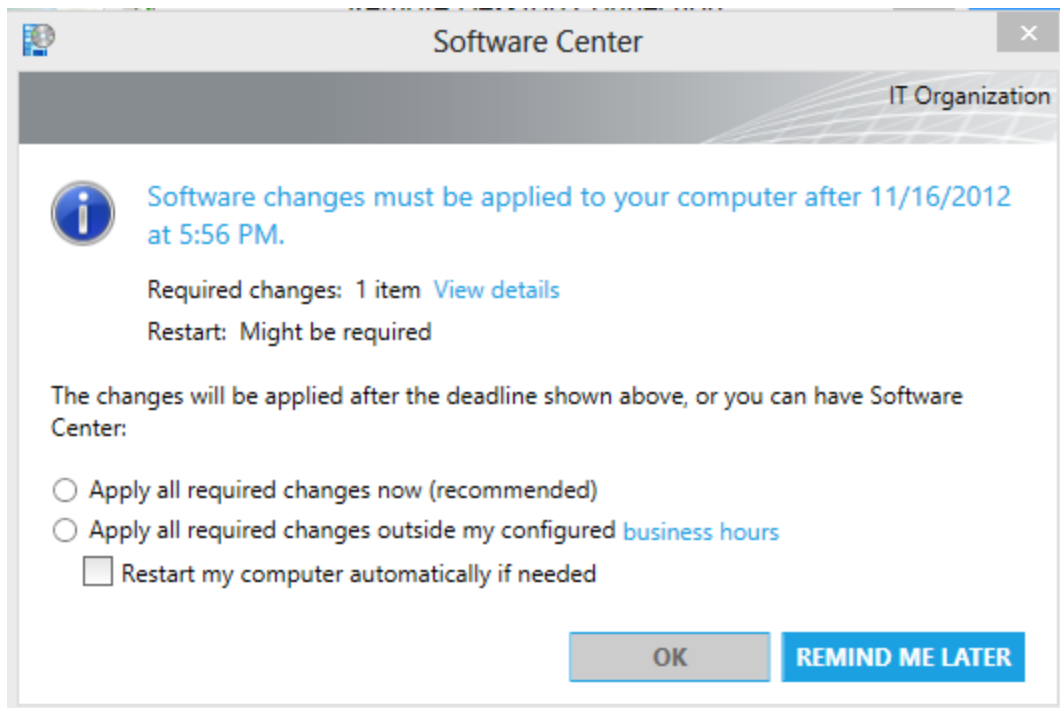
Figure 57. Popup for software changes.



Note: The information message only appears if the software update is applicable to this system.

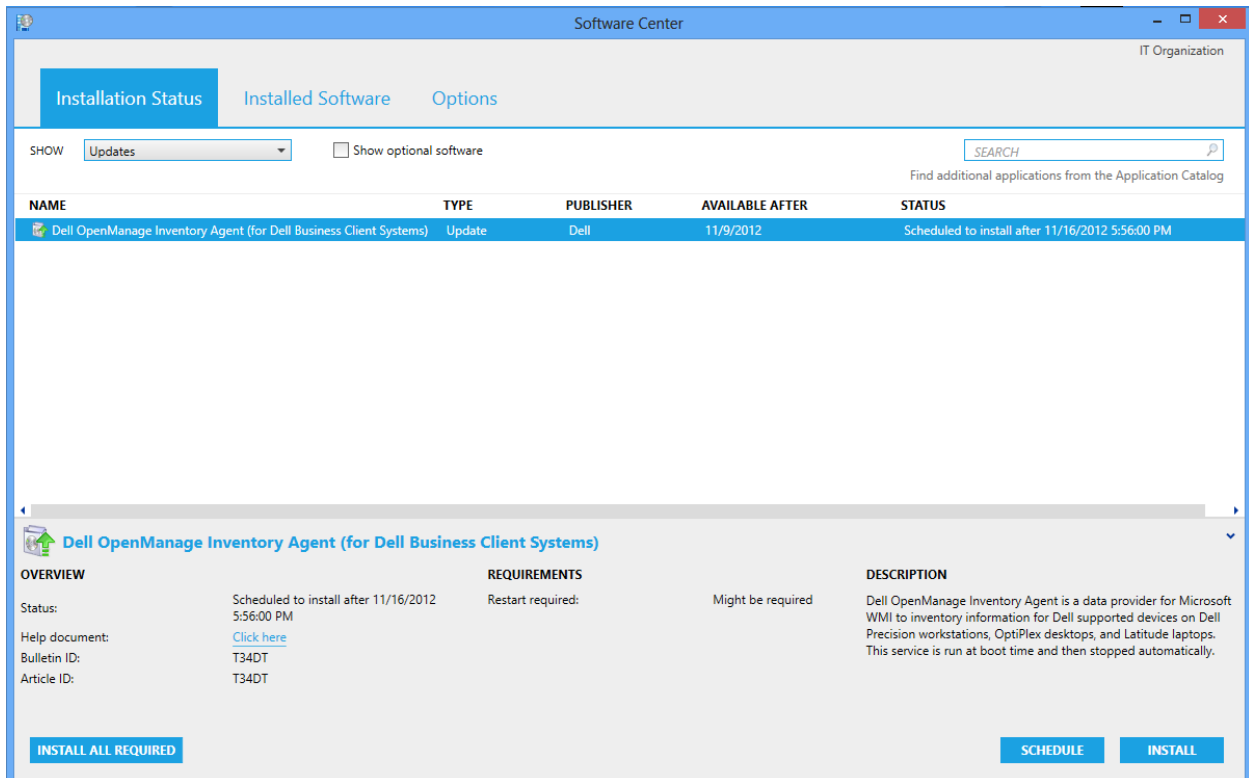
9. To view the complete details of the update, go to Software Center and view.

Figure 58. Viewing complete details in the Software Center.



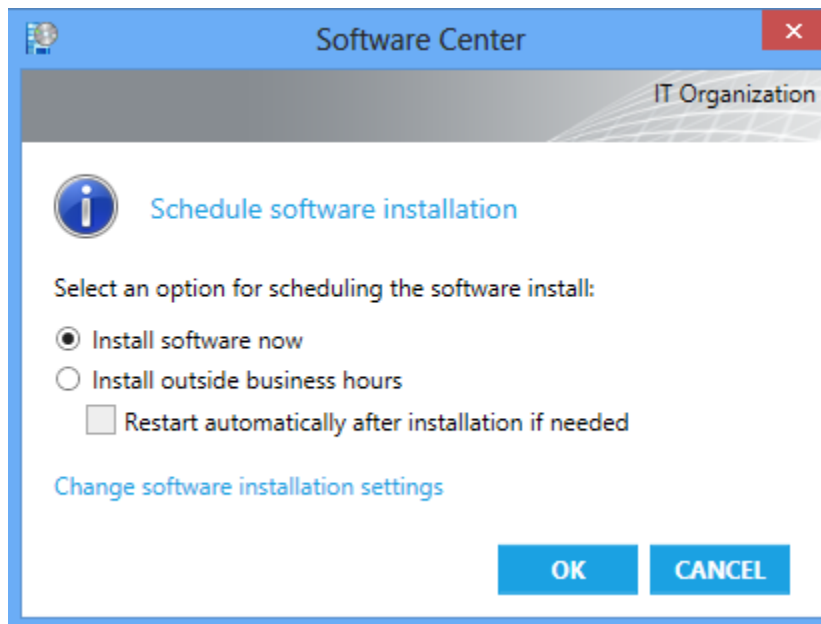
10. To View the Update details, select **View details**.

Figure 59. Viewing installation status.



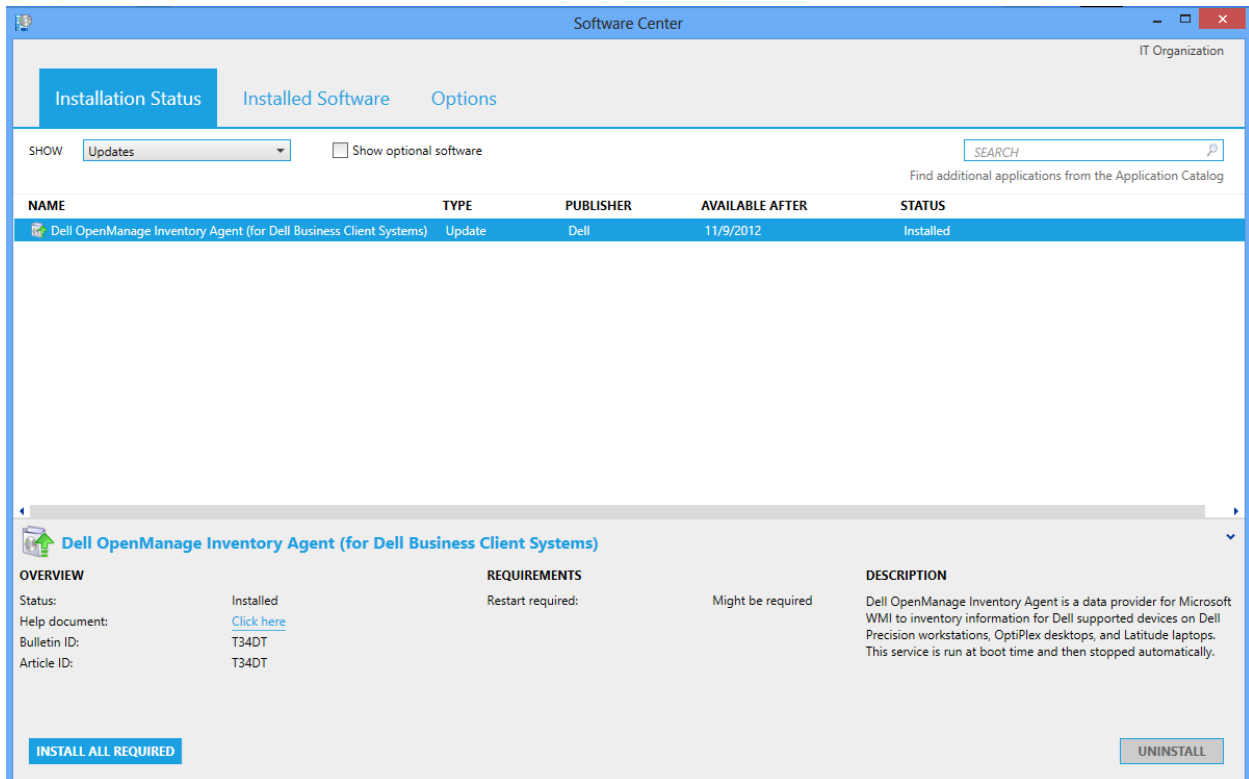
Update Details display as shown in Figure 51. You can schedule the installation by clicking **SCHEDULE**.

Figure 60. Selecting a software install option.



11. Click **Install software now** and then click **OK**.

Figure 61. Installation status window.



The software update installed successfully.

DSIA (Dell OpenManage Inventory Agent) update installed successfully on the target client systems.

Note: DSIA (Dell OpenManage Inventory Agent) does not require a system reboot. However, for other updates like BIOS, Drivers and Applications may require a system reboot on the target client system after a successful installation of updates.

Summary

By using Dell Client Catalog in a System Center 2012 Configuration Manager environment, you can keep your Dell Business Client Systems updated with the latest versions of BIOS, drivers and applications install easily.

Additional resources

- Catalogs information in Dell TechCenter
<http://en.community.dell.com/techcenter/os-applications/w/wiki/dell-updates-catalogs.aspx>
- Catalog Readme information
ftp://ftp.dell.com/cmsdk/DellSDPCatalogPC_Readme.doc
- Client Catalog update location
<ftp://ftp.dell.com/catalog/DellSDPCatalogPC.cab>