Dell Catalog to Support Microsoft System Center Configuration Manager for Dell Hardware Updates

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Manage Dell System Updates: Enterprise Environments

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Figure 1: SCUP, WSUS and WUA Architecture for Custom Updates

FOR FURTHER INFORMATION AND DISCUSSION

Visit Dell OpenManage systems management website at <u>http://www.dell.com/OpenManage</u>. For more information on Microsoft System Center Configuration Manager 2007, visit Microsoft website at <u>http://www.microsoft.com/systemcenter/configmgr</u>.

TALK BACK

Visit our Dell TechCenter wiki site at http://www.delltechcenter.com.

SECTION 1

EXECUTIVE SUMMARY

This technical white paper describes the Dell Catalog to support Microsoft System Center Configuration Manager (SCCM) 2007 for Dell system updates. It provides an overview of the system update process using Dell Catalog, Microsoft System Center Update Publisher (SCUP) and SCCM. This white paper describes the steps that should be followed to:

- 1. Import the Dell Catalog into Windows Server Update Services (WSUS) using SCUP tool
- 2. Import updates from WSUS into SCCM
- 3. Scan managed systems using SCCM
- 4. Deploy the necessary updates to the Dell systems using SCCM

Finally, this white paper also provides some tips and best practices when using SCUP and SCCM to import Dell catalog and update Dell system BIOS, firmware, driver and Dell applications.

SECTION 2

INTRODUCTION

Managing hardware updates for BIOS, firmware, driver and hardware related applications has become a key activity for an IT administrator. In enterprise environments, it can be very complex and time consuming as the IT administrator needs to determine compliance, plan the update, select the appropriate hardware updates and be able to deploy the updates to the right set of systems for keeping the environment stable and reliable.

Dell Catalog along with Microsoft System Center products SCUP, WSUS and SCCM provides the solution that will assist IT administrator in updating Dell systems with the latest Dell BIOS, firmware, drivers and Dell applications available. As IT administrators design and implement a holistic methodology to manage their software and security patch updates, by importing Dell content into SCCM, IT administrators can also plan for updates using the same process. This minimizes the resources required to transport Dell hardware updates across the network and simplifies the IT process.

SECTION 3

The Overview of Dell Catalog, MSFT SCUP, and WSUS

System Center Updates Publisher (SCUP) is an add-on application designed to extend the software update management functionality in System Center Configuration Manager 2007 (SCCM). It provides administrators the ability to import, create, and publish custom software update information to their SCCM server. By using the Updates Publisher to define a custom software update and publish it to the server, administrators can begin detecting and deploying that update to the managed systems in their organization. The System Center Updates Publisher enables administrators to do the following:

- Create the correct applicability and deployment metadata for an update that can be managed through SCCM
- Import catalogs of updates from third-parties (such as Dell) and from within the customer's own organization
- Export and share these software updates catalogs
- Manage custom software update information

Microsoft has designed WSUS to be a platform for updates for virtually any size business. That platform includes the underlying framework and an administration console that is free to use. SCCM build on top of the WSUS infrastructure and provide the tool to manage the enterprise environments.

As you can see from the Figure 1, SCUP is a component of a complete infrastructure involving Windows Update Agent (WUA), WSUS, management products such as System Center Essentials (SCE) and SCCM, custom updates catalogs such as Dell catalog and binaries from third-party sources such as Dell Update Packages.



Figure 1: SCUP, WSUS and WUA Architecture for Custom Updates

SECTION 4

How to Use SCUP to Import Dell Catalog

This section will provide step by step instructions on how to use the SCUP tool to import Dell Catalog, set the correct configuration for SCUP, publish and verify the updates from Dell catalog.

It will assume that the IT administrator has already downloaded and installed the SCUP tool on a system.

After the IT administrator installs and launches the SCUP tool on a system, follow the steps below:

1. Click **Action > Settings** to launch SCUP Settings menu.

Settings	? 🗙
Import List Update Server Data Source Trusted Publishers Advanced	
Configure the list of catalog files you want to import regularly.	
Automatically check for updates to my catalogs on startup	
Import List: Publisher Name Path Source Obsolete	
Add Eind Edit Remove All	
OK Cancel A	oply

2. From the Settings menu change tabs to **Update Server** and check "**Enable publishing to an update server**". Configure the settings based on the environment and test connection.

pott List Update Server Data Source Trusted Publishers Advanced Imable publishing to an update server. Settings Enter the update server that will be used for publishing. Administrative rights are required on the update server to successfully publish updates. Connect to a local update server. Connect to a remote update server. Use Secure Sockets Layer (SSL) when communicating with the updates server. Name: Port: If est Connection Signing Certificate The signing certificate is used to digitally sign content you want to publish to the update server. Browse to a signing certificate that you want to use and choose Create. You can leave the File entry box blank and choose Create to have the update server auto-generate a self-signed certificate. Elle: Browse Create Elle: Browse Create Elle: Browse Create Last recorded update server certificate Elenove Last recorded update server certificate Expiration date:						-
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3. Next create or import a Signing Certificate that will be used to setup the trust relationship between SCUP, SCCM, and the managed clients. Once complete click Apply. See "Tips and Best Practices using SCUP and SCCM (Q&A)" for additional information on how to export/import the WSUS Publishers Self-signed Certificate.

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4. Now switch tabs to **Import List** and click **Add** or **Find** depending on SCUPs internet access availability;

a. Clicking **Find** will launch the Discover and Add External Catalogs menu; this will automatically retrieve a list of available Catalogs from Microsoft's site. From the External Catalogs menu select publisher "**Dell**" and click **Add** > then **OK**.

iscover an	d Add Extern	nal Catalogs				?
Choose catal	logs from the Exte	ernal Catalogs list to add to the Import	List.			
<u>E</u> xternal Cata	alog(s):			Chosen catalog([s] :	
Publisher		Name		Publisher	Name	
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- Catalog Del	tails:					
<u>U</u> RL:	ftp://ftp.dell.co	om/catalog/DellSDPCatalog.cab				
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This catal Manager 3	og supports serve 2007 and System	er updates for Dell PowerEdge and Po Denter Essentials 2007 only. This ca	owerVault server p talog will not work	oroducts. IMPOR correctly on SMS	TANT: This catalog applies 5 2003 systems.	to Configuration
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b. Clicking Add will launch the Edit Catalog menu; enter <u>ftp://</u><u>ftp.Dell.com/Catalog/DellSDPCatalog.cab</u> in the Choose Path field and Dell Inc. in the Publisher field. All other information can be entered as desired; then click OK.

ttings		?
Import List Upo	late Server Data Source Trusted Publishers A	Advanced
: Catalog	n a na an	?
hoose a local p	th, UNC file share, or URL from which to automati	cally import a catalog.
Choose Path:		
ftp://ftp.Dell.con	/Catalog/DellSDPCatalog.cab	<u>B</u> rowse
<u>Publisher:</u>	Dell Inc.	
Name:	Dell SDP Catalog	
Description:	Dell SDP Catalog for SCCM or SCE 2007	
<u>S</u> upport:	 http://support.dell.com/	
Import Settings	÷	
Require ap	proval of unsigned catalogs from this location durin	ng import
I Always flag	these updates for publishing	
	<u></u>	K <u>C</u> ancel
		. (C)

5. The Dell Catalog will now appear under the Import List; to receive automated updates on the Catalog check the "Automatically check for updates to my catalogs on startup" box.

Note: IT administrators are still required to launch the SCUP in order for automatic catalog update check to occur. The check will notify the administrator of updated Dell Catalog's available for download.

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	OK		
	ld Catalog	Id Catalog Successfully added catalo	Id Catalog Successfully added catalog to the databa:

6. On the Operating System that is hosting the WSUS database click the Windows Start button and select the Run option. Type MMC and click OK. Next click the File > Add/Remove Snap-in. Click the Add button and select Certificates > Add > Computer Account > Next > Local Computer > Finish. Press Close on the Add/Remove Snap-in pop-up menu. Press OK on the Add/ Remove Snap-in menu.

d/Remove Snap-in	?
tandalone Extensions	
Use this page to add or remove a stand-alon	ne snap-in from the console.
Snap-ins added to: Console Root	<u> </u>
Certificates (Local Computer)	
-	
Description	
Add Remove About	
- HOULD HOULD	
Lenove Hour	

7. Expand the Certificates tree and select the **WSUS > Certificates** folder, select the **WSUS Publishers Self-signed** certificate right click and choose **Copy**.



8. From the Certificates tree select **Trusted Root Certification Authorities > Certificates** and click **Action > Paste**. Close the MMC Console.

🚡 Console 2 - [Console Root\Certificates (Local Computer)\Trusted Root Certification Authorities\Certificates]						
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Console Root	Issued To 🛛 🗛	Issued By	Expiration Date	Intende 🔺		
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Intermediate Certification Authorities	UTN-USERFirst-Client Authenticati	UTN-USERFirst-Client Authentication	7/9/2019	Secure		
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	•					

 Back at the SCUP front page click Action > Import Updates; this will launch the Import Software Updates Catalog Wizard. Select Bulk Catalog Import then Next.

Import Software Updates	Catalog Wizard	×
Select Impor	rt Method	
Select Import Method Summary Progress Confirmation	Select Import Method Image: Display Catalog Import This option allows the automatic import of files that have already been configured using the Import Files configuration screen. Image: Display Catalog Import This option allows the manual import of a specific catalog file.	
	< <u>Previous</u> <u>Next</u> > <u>Finish</u>	⊆ancel

10. A summary will be displayed of importing the Dell Catalog. Also for the first time a Security Warning will prompt to accept the Dell Catalog. Choose "Always accept catalog from Dell Inc." for no further prompts to occur.

Import Software	Updates Catalog Wizard
Prog	jress
Select Import Metl Summary	hod Status: Importing from DellSDPCatalog.cab
Progress	Catalog Validation - Security Warning
Confirmation	Do you want to accept this catalog? Name : DellSDPCatalog.cab Publisher : Dell Inc • Always accept catalog from "Dell Inc" • Ask me gvery time • Ask me gvery time • Catalog files from untrusted publishers can potentially harm client computers when scanning for updates. Only accept catalogs from publishers you trust. • Tell Me More
	< <u>Previous</u> <u>N</u> ext > <u>Einish</u> <u>Cancel</u>

11. Click **Close** after import is complete and SCUP will return back to the SCUP front page. Under the Console Tree the Dell group will now be present with three sub-categories; Bios, Drivers and Applications, and Firmware. Browse the categories to select individual updates to publish or click the top level Dell group and select **Set All Publish Flags** from the Action Tree menu to publish all updates.

Note: At a minimum publish the **Dell OpenManage Inventory Agent** located in the Dell Drivers and Applications section. This agent is the inventory collection tool that must first be installed on SCCM Dell managed clients to collect inventory and populate to Windows Management Instrumentation (WMI) so that all other updates can be evaluated.



12. Next in the Actions Tree select **Publish Updates**; this will bring up the Publish Wizard. A summary of the total number of updates will be displayed, Click **Next** to begin downloading the updates from the Internet.



13. When completed, a confirmation will be displayed indicating updates published or updates that failed to publish. As new Dell updates are released, steps from 9 to 13 will need to be repeated.

Publish Wizard	
Confirmation	
Summary Progress Confirmation	The approved updates have been published with the following details: Successfully published 474 of 474 items to the update server.
	< <u>Previous</u> <u>M</u> ext > <u>Einish</u> Close

This completes the publishing tasks needed to import Dell updates into the WSUS environment. Continue to the next section to import the Dell updates into SCCM.

SECTION 5

How to Use SCCM to Deploy the Updates

The next steps will cover importing updates from WSUS into SCCM; these steps assume SCCM is already setup and configured for the environment. For information about how to setup SCCM, see the Microsoft website at http://www.microsoft.com/systemcenter/configmgr/default.mspx.

1. In SCCM under the Console Tree expand the Site Database > Site Management > %Site Name% > Site Settings > Component Configuration group and select the properties of the Software Update Point Component.

E Configuration Manager Console		X
Eile Action View Window Help		X
System Center Configuration Manager	Component Configuration 5 items found	Actions
Gite Database (CPP - PE2900-SCCM, PDK LAB)		Component Configuration
E G CPP - PDK LAB	Look for: Al Coumns I End Now Geer	Give Feedback
🖃 🍓 Site Settings		View >
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Client Installation Methods	Software Update Point Component	
Component Comparation	U Status Reporting	L3 Help
🙀 Accounts	Properties	Software Update Point Component 🔺
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- Carling Status Summary		Description
I VPE2900-SCCM		Settings to apply to all software undate points
E Computer Management		in this ConfigMgr site, like network load
Collections		balancing and ports used.
🕀 🍓 Software Distribution		
🖻 🗑 Software Updates		
Search Folders		
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E-By System Status		
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upens the properties dialog box for the current selection.		
🖉 Scarc 🛛 🕼 🥮 🤮 🧃 🗍 🏭 Configuration Manag		4:19 PM

2. The Software Update Point Component Properties screen will appear, switch to the **Classifications** tab and ensure **Updates** is checked then click OK.

ftware I	Update Point (Component Pr	operties		
General	Sync Settings	Classifications	Products	Sync Schedule	Languages
Softwa	ire updates in th	e specified class	ifications wi	II be synchronized	ł.
Undate	Classifications				,
	All Classificatio	ns Jates Jpdates odates cks Ilups			
		ОК	Cancel	Apply	Help

3. Switch to the **Products** tab and ensure **Local Publisher** is checked then click **OK**.



4. In SCCM under the Console Tree expand the **Site Database** > **Computer Management** > **Software Updates** > **Update Repository** and right click Update Repository and select **Run Synchronization**.





5. A Run Update Synchronization pop-up will confirm running synchronization, click **Yes**.

To view synchronization status, navigate to Site Database > System Status > %Site Name% > Component Status > SMS_WSUS_SYNC_MANAGER, and view all messages.

<u>File E</u> dit	⊻iew <u>H</u> elp						
80	🖻 🗙 🕴	0 7 0 10	riginal Query				
Severity	Туре	Site code	Date / Time	System	Component	Mess	Description
	Milestone	CPP	5/8/2008 4:15:03 PM	PE2900-SCCM	SMS_WSUS_SY	6702	SMS WSUS Synchronization done.
2	Milestone	CPP	5/8/2008 4:13:42 PM	PE2900-SCCM	SMS_WSUS_SY	6705	SMS WSUS Synchronization in progress. Current phase: Synchronizing SMS Database.
)	Milestone	CPP	5/8/2008 4:12:41 PM	PE2900-SCCM	SMS_WSUS_SY	6701	SM5 WSUS Synchronization started.
i							

7. Once synchronization has completed, navigate to Update Repository, right click and refresh. Then navigate to Site Database > Computer Management > Software Updates > Update Repository > Updates > Dell > All Updates; all published updates should now be visible.

Image: See Management in See Set togs All Updates 221 tans found Image: See Management in See Set togs All Updates 221 tans found All Updates 221 ta
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Configuration Compared Research Compared And Compared Research Com
All and a second s
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Discovery Methods Del BMC Himware, V.2.05, AU7 4/16/2008 11:4.
Senders Del DOPC Intrinser 2, 2 06, 0/7 4/10/2008 114.
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Status Inter Aues 4/15/2008 2:06. UU Update List
a Suck Summary R18276 Dell Remote Access Controller - DRAC 5, v.1.33, A00 4/15/2008 12:3
→ [] \/pE2900-SCCM → R178174 Del CERC 6/i Integrated, v.6.0.2-0002, A03 4/14/2008 8:09
🕂 🍓 Computer Management 🛛 🗑 R183699 Dell OpenManage Server Administrator Managed Node, v. 5.4.0, A01 4/10/2008 12:0
🗄 🛃 Collections 🛛 📓 R170419 Dell SAS 5/IR and 6/IR Adapter, SAS 5/IR and 6/IR Integrated, SAS 6/IR Integrated Blades, v.1.24.04.40, A05 4/4/2008 12:42
Conflicting Records Broadcom NetXtreme Family of Adapters, NetXtreme II Family of Adapters, v.12.0, A00 3/18/2008 7:23
Broadcom NetXtreme Family of Adapters, NetXtreme II Family of Adapters, v12.0, A00 3/18/2008 7:22.
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E Cel Del SAS 5//R and 6//R Adapter, SAS 5//R and 6//R Integrated, SAS 6//R Integrated Blades, v.1.24.04.40, A05 3/18/2008 7:13.
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B 🗛 Software Metering
🕀 🚰 Reporting
🔁 🕎 Desired Configuration Management Bulletin ID: R182910
Courses Article ID:
High mode bevice management Date revised: Wednesday, April 16, 2008
Kecurity Rights Maximum sevently rating: Important
🗄 🄤 Tools Description:
Dell opennanage inventory Agent 5 a data provider for microsoft wmit to inventory information for Dell supported devices. This service is run at host time and then stronged automatically.
Applicable languages: Enolish
Affected products:
lorrets all Alphadouris

8. Under the All Updates section locate the **Dell OpenManage Inventory Agent** and take notice of the compliance state where all client systems will be evaluated to unknown.

E Configuration Manager Console												_ 8 ×
🔢 Eile Action Yiew Window Help												_ 8 ×
System Center Configuration Manager	All Updates	222 items found									Actions	
📄 🛄 Site Database (CPP - PE2900-SCCM, PDK L	2										All Undates	
🖻 🎑 Site Management	L L	ook for:		▼ i <u>n</u>	All Colum	ns	-	Eind Nov	9	⊆lear		
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🖭 🚽 All Windows 2000 Professional :	R162692	Dell BMC Firmware, V.2	0.00 %	U	0	U	5	5	Important	NVA		
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H All Windows XP Systems	R177923	Broadcom NetXtreme Fa	0.00 %	0	0	0	5	5	Important	N/A		
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🕀 🚉 Update Lists	R176235	Dell SAS 5/i Integrated,	0.00 %	0	0	0	5	5	Critical	N/A		
🗄 🔜 Deployment Templates	R176232	Dell SAS 5/i Integrated,	0.00 %	0	0	0	5	5	Critical	N/A		
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🗄 🗟 Deployment Packages	R178325	Dell Server BIOS, 1.4.0	0.00 %	0	0	0	5	5	Important	N/A		
🗈 🎲 Operating System Deployment	R178424	Dell Server BIOS, 1.4.3	0.00 %	0	0	0	5	5	Important	N/A		
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🕀 🌉 Desired Configuration Management	🛛 🗑 R178443	Broadcom NetXtreme II	0.00 %	0	0	0	5	5	Important	N/A		
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9. After clients perform their next software update scan cycle, the OpenManage Inventory Agent applicability will be reported to the SCCM site.

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Al Upddec Bit Derivers and Appledes Divers and Appledes Deployment Transparent		🖻 🤹 Dell		R176969	Dell SAS 5/IR Integrated Blades, Dell SAS 5/IP and 6/IP Adapter	0.00 %	0	0	0	5	5 Important 5 Important	3/18/2008 7:15	
<pre>bbs bbs bbs bbs bbs bbs bbs bbs bbs bbs</pre>		All Updates		R170421	Dell SAS 5/iR Integrated, SAS 5/i	0.00 %	Ő	ŏ	õ	5	5 Important	3/18/2008 7:10	
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Bulletin ID: R182910 Article ID: Bashbards		E Rimware		🗑 R176232	Dell SAS 5/i Integrated, SAS 5/E	0.00 %	0	0	0	5	5 Critical	3/18/2008 7:08	
		🗈 🕞 Microsoft		R170409	Dell SAS 5/i Integrated, v.1.24.0	0.00 %	0	0	0	5	5 Important	3/18/2008 7:04	
Update Details Deployment Rengalement Deployment Packages Deployme		🕀 🍓 Update Lists										•	
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Coperating System Deployment System Status System Veddet(s) to a collection. System Veddet(Deployment Packages			1								
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Bit Complance 6 - Specific Documents and after scope advantactary. Bit Complance 6 - Specific Applicable languages: English Applicable languages: Bit Metwork Access Protection Implicable languages: Bit Scope advantactary. Affected products: Deploy Software Update(s) to a collection. Implicable and applicable advantactary. Bit Scope advantactary. Implicable and use in the scope advantactary. Bit Scope advantactary. Affected products: Deploy Software Update(s) to a collection. Implicable and applicable and scope advantactary. Bit Scope advantactary. Implicable advantactary. Implicable advantactary. Implicable advantactary. Implicable advantactary. Implicable advantactary.		🕀 🛅 Compliance 7 - Specific :		Dell Openi	Manage Inventory Agent is a data pro	vider for Mici	rosoft WM	I to inventory i	nformation	n for Dell supported	d devices. This servic	e is run at	
Applicable languages: English System Status System Uddet(s) to a collection. Statu S		🗄 🛅 Compliance 6 - Specific (buot une	and cherrscopped automatically.								
Image: System Status Image: System Status Image: System				Applicable	languages:								
Affected products: Drivers and Applications Deploy Software Update(s) to a collection. Deploy Software Upda		Mobile Device Management		Lingion									
System Status	E	🗄 🌇 Network Access Protection		Affected p	oroducts: d Applications								
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Deploy Software Update(s) to a collection.	4												
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10. Next select the **Dell OpenManage Inventory Agent** update then click **Action > Deploy Software Updates**.

11. The Deploy Software Updates Wizard will appear. Click **Next** for the default deployment name.

Deploy Software Updates V	/izard	×
General		
General	Enter a unique come and detailed description that will belo identify the software undate deployment	
Deployment Template	Encer a unique name and decailed description char will help identify the software update deployment	
Deployment Package	Name:	
Download Location	- Dell Lindster - 5/12/2008 2:08:47 DM (DSTA)	
Language Selection	Description	
Schedule	Description:	
Set NAP Evaluation	<u>×</u>	
Summary		
Progress		
Confirmation		
	< <u>Previous</u> <u>Next</u> > Einish Cancel	

12. Use an existing deployment template or create one per the environments settings, click **Next**.

Deploy Software Updates W	izard		×
Deployment Temp	plate		
General Deployment Template Deployment Package Download Location Language Selection Schedule Set NAP Evaluation Summary Progress Confirmation	Templates can be used to define deploy settings. The properties can also be maintemplate for future use in other deployr Select a template or define new propert C Greate a new deployment definition C Use an existing template Default Deployment	ment properties, such as target collection, package, and client nually configured within the wizard and optionally saved as a nents.	
		Windows Event Generation: Enabled Disable Window Event while update Enabled SMS 2003 Deployment: Disabled	

.

13. Select a deployment package or create one per the environments settings, click **Next**.

Deployment Pack	age	
General Deployment Template Deployment Package Download Location Language Selection Schedule Set NAP Evaluation Summary Progress Confirmation	The deployment package contains the software update files that will be available to clients as part of the deployment. Select a package, or create a new deployment package. Default Package Default Package @ greate a new deployment package Name: Description: Description: Example: \\servername\share Sending priority: Medium I nable binery differential peplication	
	Sending priority: Medium	

14. Select "Download software updates from the Internet", then click Next.

Deploy Software Updates Wiza	rd	×
Download Location		
General Deployment Template Deployment Package	If your site server does not have an Internet connection, you can download the software updates from a different computer and save them to a network location accessible by the site server.	
Download Location	Select the download location for software updates:	
Schedule	Download software updates from the Internet	
Set NAP Evaluation	O Download software updates from a location on the local network	
Summary	Browse,	8
Progress		
Confirmation	Note:	
	When the deployment package contains all required software updates, select the "Download software updates from the Internet" option. The software updates files will be validated, but will not be downloaded again.	
	< Previous Next > Einish Cancel	

Seneral Deployment Template	Software update files are downloaded for eac	h language specified in the Update File co	lumn.
Deployment Package	Language	Update File	_
ownload Location	Arabic		1993
anguage selection	Chinese (Hong Kong S.A.R.)		
ochedule	Chinese (Taiwan)		
et NAP Evaluation	Chinese (People's Republic of China)		
Summary	Czech		
rogress	Danish		
Confirmation	Dutch		
	English		
	Finnish		
	French		
	German		
	Greek		
	Hebrew		
	Hungarian		
	Italian		
	Ispapere		-

15. Check "English" from the language selection, then click Next.

16. Set the schedule for when the software updates should be deployed, then click **Next**.

Deploy Software Updates W	/izard	×
Deployment Sche	edule	
General Deployment Template Deployment Package Download Location Language Selection	Select the date and time that software updates will be made available to clients:	
Schedule Set NAP Evaluation Summary Progress Confirmation	Specify whether the software updates should automatically install on clients at a configured deployment deadline: Do not set a deadline for software update installation Set a deadline for software update installation 5/12/2008 2: PM Specify whether at deadline Wake On LAN will be used to send wake-up packets to computers that require updates in this deployment. Specify whether at deadline Wake On LAN will be used to send wake-up packets to computers that require updates in this deployment. Inable Wake On LAN If the software update is urgent, it can be installed immediately at the deadline, regardless of configuration maintenance windows. Ignore maintenance windows and install immediately at deadline	
	< <u>Previous</u> <u>N</u> ext > Einish Cancel	

17. Select the desired settings for NAP evaluation per the environment, then click **Next**.

Deploy Software Updates Wizar	d	×
Set NAP Evaluation		
General Deployment Template Deployment Package Download Location	Network Access Protection (NAP) in Configuration Manager works with Windows Network Policy Server to enforce compliance of selected software updates. The software updates in this deployment can be included in a NAP evaluation.	
Language Selection	Enable NAP evaluation	
Schedule	Specify when these policies become effective.	
Set NAP Evaluation		
Summary	C As soon as possible	
Progress	Date and time	
Confirmation	5/26/2008 👻 2:13 PM 🚍	
	When the policies become effective, clients might have restricted network access until they comply with the selected software updates. Network restriction and remediation are dependent on how the policies are configured on the Windows Network Policy Server.	
	< Previous Next > Einish Cancel	

18. Review the summary and click **Next**. Then review the confirmation and click **Close**.



- 🚝 Configuration Manager Console _ 8 × Elle Action Yiew Window Help _ 8 ×
 Image: space of the space Deployment Management 1 ite Action . Deployment Managem . in All Columns Eind Now Look for: 🌀 Give Feedback View Deployment ID Available Deadline Target Coll... De: 8 2:15 PM 5/12/2008 2:16 PM All Systems Name Dell Updates - 5/12/2008 2:08:47 PM (DSIA) New Window from Here Refresh Properties Junis Senders Senders Setus Filter Rules Setus Filter Rules Setus Filter Rules Setus Filter Rules Setus Summer Setus Sum 😰 Help Dell Updates - 5/12/2008 2:08:47 P... 🔺 × Delete 🗟 Refresh Properties R Help Belowner Monagement
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 Bolowner Material
 Bolowner Allowner
 Bolowner Allowner
 Bolowner Allowner
 Bolowner
 Complence - Specific computer
 Complence - Specific computer
 Complence - Specific computer
 Bolowner
 Compl × 🤨 Software Update Installation -A software updates deadline has been exceeded and update installation will soon begin. A restart might be enforced when installation completes. Click here to install updates now. 1 5:01 PM 🏄 Start 🛛 🎯 🧔 🚽 📓 Configuration Manag... 🦉 untitled - Paint C:\Documents and Settin...
- 19. To review the software deployment or make changes, go to Site Database > Computer Management > Software Updates > Deployment Management > %Deployment Name%.

20. After the Dell OpenManage Inventory Agent has been installed on the SCCM Dell managed clients and the Dell Updates are reevaluated, the compliancy of Dell updates will reflect what packages have been installed and what packages require update.

Configuration Manager Console								
Elle Action View Window Help								_18
⇔ ⇒ 🗈 🖪 😫 🖬								
System Center Configuration Manager	All Updates	221 items found						Actions
E Site Database (CPP - PE2900-SCCM, PDK LAB)						C		All Updates
🕀 🛶 Site Management	L L	ookfor:	i <u>n</u> All ⊂	olumns	-	Eind Now	⊆lear	China Easadhaidh
E-ung Computer Management								Give reedback
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Software Distribution	D0letin10	Del OpenMapage Inventory Agent	40.00 %	2	2	n noc kedal ea		New Window from Here
🖻 👼 Software Updates	B 94800	Intel PRO Ginabit Adapters, v.8.4.21.0. A00	80.00 %		n n		1	Dati
😑 🚉 Update Repository	R183699	Dell OpenManage Server Administrator Mana	80.00 %		0		1	2 Refresh
🕀 💐 Search Folders	R99970	LSI Logic PERC3, PERC 4, PERC 4e, CERC AT	80.00 %				1	Help
E 🛃 Updates	R178443	Broadcom NetXtreme II Base Driver Dell Upda	80.00 %				1	Selected Items
All Updates	R99806	Dell Backplane Firmware, v.1.00, A01	80.00 %				1	
Dell	R168515	Dell Remote Access Controller - DRAC 4/I, Re	80.00 %	1	0	3	1	Deploy Software Updates
H Bins	R169446	Dell Server System BIOS, A0S	80.00 %	0	0	4	1	i Download Software Updates
P C Drivers and Applications	R170407	Dell SAS 5/E Adapter, v.1.24.04.40, A06	80.00 %	0	0	4	1	10 Lindate List
E S Firmware	R173922	Dell PowerVault LTO3-060 (Tandberg), v.3.8	80.00 %	0	0	4	1 -	
🕀 🕞 Microsoft	R172182	Dell SAS Backplane Firmware, v.1.06, A00	60.00 %	0	1	3	1	E Copy
🕀 🕞 Update Lists	R175282	Dell Server BIOS 10G, 1.0.0	80.00 %	0	0	4	1	Refresh
🕀 🚉 Deployment Templates	R168490	LSI Logic LSI2032, v.1.03.39.00.5.10.08.00	80.00 %	0	0	4	1	
🕀 🍓 Deployment Management	R168404	Seagate T10,10K,SAS3.0,3.5",146GB,SGT3,	80.00 %	0	0	4	1	Properties
Geployment Packages	R168400	Seagate HD, 146G, SAS, 3, 10K, 2.5, 5GT2, DU,	80.00 %	0	0	4	1	😰 Help
Geftware Metaving	R168398	Hitachi 10K, SAS, 2.5"FF, 73GB, DU, 10K, SA	80.00 %	0	0	4	1	Description
Benorting	R168402	Seagate NS, 10K, SAS3.5", 400GB, DU, v. NS25	80.00 %	0	0	4	1	Description
Coporting Configuration Management	R168439	Fujitsu AL105X, 2.5", 15K, 5A5, 73GB, DU, A	80.00 %	U	U	4	1	7 Items selected.
🕀 🚺 Oueries	R168437	Fujitsu ALTUSE, 2.5 , TUK, SAS, 73GB, DU, A	80.00 %	0	U	4	1	
🕀 👔 Mobile Device Management	R170150	Dell Server BIOS TOG, 01:01:03	00.00 %	0	U	4	1	
😟 🦏 Network Access Protection	D179450	Dell Server BIOS, Server BIOS 10G, 2.2.6	90.00 %	0	0	4	1	
🕀 📴 System Status	R170439	Adapter CEPC S0101 5/6rb v 4 1 1 7043	80.00 %	0	0	4	1	
E Security Rights	R177588	Dell SAS 5/IP and 6/IP Adapter SAS 5/IP and	80.00 %	0	0	4	1	
🕀 📑 Tools	B177587	Dell SAS 5/iR and 6/iR Adapter, SAS 5/iR and	80.00 %	0	ů.	4	1	
	R178453	Dell Server BIOS 106, 2,2,6	80.00 %	0	ő	4	1	
	R178418	Dell Server BIOS, Server BIOS 10G, 2.2.6	80.00 %	0	0	4	i	
	R178183	Dell Server BIOS 10G, 1.1.0	80.00 %	0	0	4	1	
	R170220	Dell Server BIOS, 1.0.0	80.00 %	0	0	4	1	
	R178434	Dell Server BIOS, Server BIOS 10G, 2.2.6	80.00 %	0	0	4	1	
	R178430	Dell Server BIOS, 2.2.6	80.00 %	0	0	4	1	
	💽 R178427	Dell Server BIOS, Server BIOS 10G, 2.2.6	60.00 %	0	1	3	1	
	🗑 R168343	Hitachi 3.5", 15K, SAS, 73GB, DU, 3.5", 15K,	80.00 %	0	0	4	1	
	R168480	Dell SAS 5/E Adapter, v.00.10.51.00.06.12.0	80.00 %	0	0	4	1	
	R168477	Dell SAS 5/i Integrated, v.00.10.51.00.06.12	80.00 %	0	0	4	1	
	R168472	Dell SAS 5/iR Integrated, v.00.10.51.00.06.1	80.00 %	0	0	4	1	
	R168387	Adaptec PERC3/Di, v.2.8.1.7692, A13	80.00 %	0	0	4	1	
	R168380	Adaptec PERC3/Di, v.2.8.1.7692, A13	80.00 %	0	0	4	1	
	R169302	Dell PERC 5/i Integrated, v.5.2.1-0067, A07	60.00 %	0	1	3	1	
	R169023	Dell Server BIOS, 1.4.2	80.00 %	0	0	4	1	
	R168614	Dell PowerVault LTO4-120HH (IBM), v.7A31,	80.00 %	U	U	4	1	
	R165745	Dell PERC 5/E, 5/I, 6/E, 6/I Adapter, 5/I, 6/I In	80.00 %	0	0	4	1	
	R165739	Dell PERC 5/E, 5/i, 6/E, 6/i Adapter, 5/i, 6/i In	60.00 %	U	1	3	1	
	R1684/1	Dell SAS SJIR Adapter, V.00.10.51.00.06.12	80.00 %	0	U	4	1	
	R170191	Dell SAS Reskeland Simulate ur 1.00 100	60.00 %	0	u ,	4	1	
	K171043	Dellowo backplane Hirmware, V.1.06, AUU	00.00 %	U	1	3		

E Configuration Manager Console											_ <u>8</u> ×
🔢 Eile Action Yiew Window Help											_ 8 ×
⇔ → 💽 🖬 🔮 🖬											
System Center Configuration Manager	All Updates	221 items found								Actions	
E Site Database (CPP - PE2900-SCCM,				_				0	1	All Updates	
Gerry der Management		Look for:	- i <u>n</u>	All Column	ns	-	Eind Now		⊆lear	Give Feedback	
Collections										Give resolution	
Conflicting Records	Bulletin ID	Title	% Compliant	Installed	Required v	Not Requir	ed Linknown	Total	Severity	View	•
🕀 🍓 Software Distribution	R182910	Dell OpenManage Inventory Agent	40.00 %	2	2	0	1	5	Important	New Window from Here	
🖨 颧 Software Updates	R171043	Dell SAS Backplane Firmware, v.1.06, A00	60.00 %	0					Important	E Dafrach	
🖻 📑 Update Repository	R136644	Dell Server System BIOS, A06	60.00 %						Important	Neriesii	
E Search Folders	R178427	Dell Server BIOS, Server BIOS 10G, 2.2.6	60.00 %						Important	Help	
E ta Updates	R172182	Dell SAS Backplane Firmware, v.1.06, A00	60.00 %						Important	Selected Items	
	R158491	Dell SAS Backplane Firmware, v.1.05, A01	60.00 %						Important	Dealers Callmana Lindataa	
All Lindates	R149431	Dell SAS Backplane Firmware, v.1.05, A01	60.00 %						Important	Depioy Sortware Updates	
🗈 📑 Bios	R165739	Dell PERC 5/E, 5/i, 6/E, 6/i Adapter, 5/i, 6/i In	60.00 %						Important	Download Software Updates	
🕀 😹 Drivers and A	R169531	LSI Logic Perc 4e/Di, v.SA2D, A18	60.00 %					5	Critical	101 Update List	
🗉 📑 Firmware	R147948	Dell BMC Firmware, v.1.72, A09	60.00 %					5	Important	B	
🕀 📑 🔛 Microsoft	R158507	Dell SAS Backplane Firmware, v.1.05, A01	60.00 %	0				5	Important	He Copy	
🕀 🍓 Update Lists	R168186	Dell PERC 5/E Adapter, v.5.2.1-0066, A06	60.00 %	0				5	Important	Refresh	
Deployment Templates	R169302	Dell PERC 5/i Integrated, v.5.2.1-0067, AU7	60.00 %	0				5	Important	P Bropertier	
Deployment Management	R182895	Dell BMC Firmware, v.2.05, A09	60.00 %					5	Important	E Propercies	
Deployment Packages	R151897	LSI Logic PERC3/DCL, PERC3/DC, PERC3/QC,	60.00 %	U				5	Critical	Help	
Software Metering	R158506	Dell SAS Backplane Firmware, V.1.05, AU1	60.00 %	0	1	3	<u>u</u>	5	Important	Description	
H- Reporting	R60041	Dell Server System BIOS, ATT	80.00 %	0	0	4	1	5	Important		
🗄 🃑 Desired Configuration Manag	R000/4	Dell DEDC 4/IM v 1 0 11 0 400	00.00 %	0	0	4	1	5	Critical	16 Items selected.	
🕀 🔣 Queries	P53488	Dell FSM Eirmware 002	80.00 %	0	0	4	÷.	5	Moderate		
😟 🎒 Mobile Device Management	R50466	LST Logic CERC ATA 100 y 6.62 A03	80.00 %	0	0	4	1	5	Moderate		
Image: Metwork Access Protection Image: Access Protection	R47682	Dell PERC 4/IM, v. 1.8.6, 400	80.00 %	ñ	ů	4	1	5	Moderate		
🕀 🚉 System Status	B58591	SILICON IMAGE SI680A, v.1.0.0.22, A01	80.00 %	0	ñ	4	i	5	Moderate		
E Gecurity Rights	R87883	Dell Server System BIOS, A13	80.00 %	0	0	4	1	5	Important		
H a Tools	894801	Intel PRO Fast Ethernet Adapters, v.8.0.17	80.00 %	0	0	4	1	5	Important		
	R100445	Intel PRO Gigabit Adapters, v.8.4.21.0, A00	80.00 %	0	0	4	1	5	Important		
	R94803	Intel PRO Gigabit Adapters, v.8.4.21.0, A00	80.00 %	0	0	4	1	5	Important		
	R87336	Dell Server System BIOS, A05	80.00 %	0	0	4	1	5	Important		
	R87575	Dell Server System BIO5, A12	80.00 %	0	0	4	1	5	Important		
	R100373	LSI Logic PERC 4/SC, PERC 4/DC, PERC 4e/D	80.00 %	0	0	4	1	5	Important		
	898040	Adaptec U320 SCSI RAID 0 or 1, v.2.0.0.363	80.00 %	0	0	4	1	5	Important		
	🗑 R87577	Dell Server System BIOS, A09	80.00 %	0	0	4	1	5	Important		
	🗑 R52213	SILICON IMAGE SI680A, v.1.0.0.12, A00	80.00 %	0	0	4	1	5	Moderate		
	🛛 🗑 R100447	Intel PRO Fast Ethernet Adapters, v.8.0.17	80.00 %	0	0	4	1	5	Important		
	R94804	Intel PRO Fast Ethernet Adapters, v.8.0.17	80.00 %	0	0	4	1	5	Important		
	R94681	Dell Server System BIO5, A14	80.00 %	0	0	4	1	5	Important		
	R87059	Dell PERC 4/IM, v.1.9.11.0, A02	80.00 %	0	0	4	1	5	Critical		
	R115322	Dell Server System BIOS, A06	80.00 %	0	0	4	1	5	Important		
	R115324	Dell Server System BIOS, A06	80.00 %	0	0	4	1	5	Important		
	R117418	Dell ESM Hirmware, A37	80.00 %	0	U	4	1	5	Important		
	R143003	Dell PowerVault 1101 LTO-2-L (Certance), v	80.00 %	0	0	4	1	5	Untical		
	R141501	Dell Powervault 1101 LTO-3, V.6B20, A03	80.00 %	U	U	4	1	5	Important		
	R130967	Dell Powervault 1001 DAT /2, V.A16E, A10 Dell Deslettere Simurate v. 1.00, AC1	80.00 %	U	U	4	1	5	Important		
	R99805	Adapted CEDC SATA 2d u 6 0 2642 4 200	00.00 % 90.00 %	0	0	4	1	5	Important		
	B126742	August CERC 2414 25, V.0.0.3043.4, AU3	90.00 %	0	0	4	1	5	Important		
	K120743	Huaptoc CERC 2414 25, 910-012010, AUD	00.00 %	U	0	1	1	2	important •		
	per									<u> </u>	

21. Navigate to Site Database > Computer Management > Software Updates > Update Repository > Updates > Dell > All Updates to review what updates require deployment.

This completes importing Dell Updates into the SCCM server and deploying Dell OpenManage Inventory Agent / evaluating Dell Updates. Manage and deploy the rest of the Dell Updates as desired per the environment.

SECTION 6

Tips and Best Practices Using SCUP and SCCM (Q&A)

This section will cover common questions or issues that may occur.

Question: Updates fail to publish from SCUP to WSUS.

Publish Wizard	×
Confirmation	
Summary Progress Confirmation	 Errors occurred during publishing on one or more of the approved updates: Successfully published 253 of 474 items to the update server. The following 221 update(s) were not published due to an error during publishing to the update server: Error 1: Dell BMC Firmware, v.2.03, A07 Error 2: Adaptec 39160 SCSI - Family Manager Set, v.6.4.630.101, A18 Error 3: Adaptec 39320A Leadfree Controller, v.7.0.4.1, A02 Error 4: Adaptec 79820A Leadfree Controller, v.7.0.4.1, A02 Error 5: Dell Server System BIOS, A14 Error 6: Intel PRO PCI-E 4 Port Gigabit Base Driver, v.10.0, A01 Error 7: Dell Server System BIOS, A21 Error 8: Dell SAS 5/i Integrated, v.1.24.04.40, A06 Error 9: Adaptec PERC3/Di, v.2.8.1.7692, A13 Error 10: Dell PowerVault 100T DD54, v.912L, A18 Error 12: Dell CERC 6/i Integrated, v.6.0.2-0002, A03 Error 13: Intel PRO PCI-E Gigabit Family of Adapters (2007), v.10.0, A02 Error 14: Dell PowerVault RD1000 External, v.2021, A01 Error 15: Adaptec U302 SCSI RAID 0 or 1, v.2.00.3635, A00 Error 16: Intel PRO Fast Ethernet Adapters, v.8.0.17.0, A00-8.2 Error 17: Dell Server BIOS, Server BIOS 106, 2.2.6 Error 18: Dell PERC 6/i Integrated, v.6.0.2-0002, A03 Error 19: Dell BMC Firmware, v.1.11, A04 Error 20: Dell PERC 6/i Integrated, v.6.0.2-0002, A03 Error 19: Dell BMC Firmware, v.1.14, A04 Error 20: Dell PERC 6/i Integrated, v.6.0.2-0002, A03 Error 17: Dell Server BIOS, Server BIOS 106, 2.2.6 Error 13: Dell PERC 6/i Integrated, v.6.0.2-0002, A03 Error 14: Dell PERC 6/i Integrated, v.6.0.2-0002, A03 Error 15: Dell PERC 6/i Integrated, v.6.0.2-0002, A03 Error 16: Dell PERC 6/i Integrated, v.6.0.2-0002, A03 Error 17: Dell Server BIOS, Server
	< Previous Next > Einish Close

Answer:

Investigate the SCUP log file located at %temp%\UpdatePublisher.log.

Tip: The log file can be difficult to read using notepad, search the web and download the Microsoft log viewer application called SMS Trace.

Dell Catalog for MSFT SCCM Patch Management

Question: Upon investigating the UpdatePublisher.log SCUP failed to publish updates to WSUS due to a verification of file signature failed error .

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Answer:

Ensure the WSUS Publishers Self-signed Certificate was copied to the Trusted Root Certification Authorities as outlined in the SCUP steps listed in this document .

Dell Catalog for MSFT SCCM Patch Management

Question: When attempting to deploy the Dell Updates to a SCCM managed client system the update fails.

Answer: Investigate the managed client systems Windows Update log file located at %windir%\WindowsUpdate.log for further error details.

Question: Upon investigating the WindowsUpdate.log the reason the update failed was due to a signature failure.

Answer: First ensure that the SCCM managed client system has the WSUS Publishers Self-signed Certificate in it's Trusted Root Certification Authorities store as outlined in the SCUP steps listed in this document. Then follow these steps using the Windows group policy editor on the managed client system to allow signed content from intranet Microsoft update service location.

 On the SCCM managed client Operating System click the Windows Start button and select the Run option. Type GPE-DIT.MSC and click OK. Next expand Computer Configuration > Administrative Templates > Windows Components > Windows Update.

> a. If the managed client Operating System is Windows 2000 from the group policy editor right click the **Administrative Templates** folder and select **Add/Remove Templates**. From the Add/Remove templates menu select **Add** and choose **wuau.adm** and click **Open**, then click **OK** from the Add/Remove templates menu.

Note - This will only be possible on Windows 2000 service pack 3 or higher.

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	J•1		

2. Double click "Allow signed content from intranet Microsoft update service location", select "Enabled" and click OK. Close the Group Policy editor.



Question: How to remove Dell Updates from SCCM

Answer: To remove Dell Updates from SCCM follow these steps to expire/remove them.

 In SCCM under the Console Tree expand the Site Database > Site Management > %Site Name% > Site Settings > Component Configuration group and select the properties of the Software Update Point Component.



2. The Software Update Point Component Properties screen will appear, switch to the **Sync Schedule** tab and check **Enable synchronization on a schedule**, press **OK**. This is required for SCCM to remove the expired updates per the schedule time.

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- 3. In SCCM navigate to Site Database > Computer Management > Software Updates > Update Repository > Updates > Dell > All Updates select the update you wish to remove and click Action > Properties. From the properties screen choose Expire.
- 4. Expiring updates will not instantly remove them, a clean up scan will run 14 days after marking the updates expired and remove them from SCCM. Updates can not be removed from SCCM if the updates are included in a deployment package, first delete the deployment package then expire the updates.
- 5. Updates may reappear in SCCM if they are not unchecked in the next SCUP publishing / synchronization.

Note – For advanced steps to remove updates from SCCM search Microsoft's SCCM forums and Microsoft Technet.

Question: After installing Dell OpenManage Inventory Agent, the remainder of the updates are still showing the status of unknown. **Answer:** Once clients perform their next software updates scan cycle, then the remainder of the updates applicability will be reported to the SCCM site.

Question: Will many of the steps outlined in this whitepaper be applicable to System Center Essentials (SCE)? **Answer:** Yes, many will be similar but not necessarily exact.

Question: Where can more information be found about Dell Catalog and Dell OpenManage Inventory Agent? **Answer:** <u>ftp://ftp.dell.com/cmsdk/DellSDPCatalog_Readme.doc</u>. <u>ftp://ftp.dell.com/cmsdk/DSIA_Readme.doc</u>.

Question: Where is the Dell SCCM / SCE Catalog located? **Answer**: <u>ftp://ftp.Dell.com/Catalog/DellSDPCatalog.cab</u>.

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