

Software Center Update Publisher (SCUP) / Software Update Point (SUP)

APSCNLAN Support



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Setup WSUS and SCUP

Setup WSUS for System Center Software Update Point (SUP)

The WSUS Setup Wizard is launched from Server Manager or from the WSUSSetup.exe file.

Installing WSUS

- 1. On the Welcome page of the Windows Server Update Services 3.0 Setup Wizard, click Next.
- 2. On the Installation Mode Selection page, select **Full server installation including Administration Console** if you want to install the WSUS server on this computer.
- 3. On the License Agreement page, read the terms of the license agreement, click I accept the terms of the License agreement, and then click Next.
- 4. You can specify where clients get updates on the Select Update Source page of the installation wizard. By default, the **Store updates locally** check box is selected and updates will be stored on the WSUS server in the location that you specify. If you clear the **Store updates locally** check box, client computers obtain approved updates by connecting to Microsoft Update. Make your selection, and then click **Next**.



5. On the Database Options page, select the software that will be used to manage the WSUS database. By default, the installation wizard offers to install **Windows® Internal Database**. Click **Next**.

You can choose to have Windows Internal Database installed, or you can database server.	use an existing
You should install the database on an NTFS drive with a minimum of 2 GB	of free disk space.
Install Windows Internal Database on this computer	
a instali Windows Internal Database on this computer	
W:\WSUS	Browse
W:\WSUS O Use an existing database server on this computer	Browse
W:\WSUS Use an existing database server on this computer <default> Z</default>	Browse
W:\WSUS Use an existing database server on this computer <pre></pre>	Browse

6. On the Web Site Selection page, specify the Web site that WSUS will use. System Center Configuration Manager Will be using port 80, so you can create an alternate site on port 8530 or 8531 by selecting **Create a Windows**

Server Update Services 3.0 SP2 Web site. Click Next.



- 7. On the Ready to Install Windows Server Update Services page, review the selections, and then click Next.
- 8. The final page of the installation wizard will let you know if the WSUS installation completed successfully. After you click **Finish** the configuration wizard will start. Close the Configuration Wizard. We will configure WSUS inside the SCCM Console.



Setup SCUP 2011

Installation

- 1. Download SCUP 2011 from this link -<u>http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=11940</u>
- 2. Locate SystemCenterUpdatesPublisher.msi and double click on it to start the installation of SCUP 2011.
 - Click "Install Microsoft Windows Server Update Services 3.0 Sp2 hotfix" if it is not installed already and click Next to continue





4. Change the Installation Location to w:\ System Center Update Publisher 2011.

🖥 Setup Wizard for System Center Updates Publisher 2011 🛛 🛛 🛛	🛛 🙀 Setup Wizard for System Center Updates Publisher 2011
Installation Location Specify the installation location for System Center Updates Publisher 2011	Installation Location Specify the installation location for System Center Updates Publisher 2011
Setup will install Updates Publisher in the following location. Click Browse to select a different location. Location: C:(Program Files (x86))System Center Updates Publisher 2011 Browse	Look In: System Center Updates Publisher 2011
< Back Next > Cancel	Eolder name: W:}System Center Updates Publisher 2011\ OK Cancel

5. Click Next until you reach Finish option.

Configuring SCUP 2011

1. Connect to SCUP 2011 console and choose "Options"



- 2. Check "Enable publishing to an update server" option under "Update Server" tab
- 3. If Update server is local then choose "**Connect to a local update server**". Click on "**Test Connection**" and make sure it is able to connect successfully.



4. If you are **not** running your own CA Server, you will need to create a Self-Signed Certificate. Click Create and then OK.



5. Under "ConfigMgr Server" tab, check "Enable Configuration Manager integration" option and choose local or remote ConfigMgr server accordingly. Again, click on "Test Connection" to make sure it is able to connect successfully.



6. Set Proxy Settings and other options under Advanced tab according to your environment.

Export SCUP Certificate

1. Run MMC and add the Certificate Snap-In



2. Choose Local Computer: (the computer the console is running on)

elect Computer	
Select the computer you want this snap-in to manage.	
I his snap-in will always manage: C Local computer: (the computer this console is running on)	
Another computer:	Browse,
only applies if you save the console.	nana inte. Triis

3. Browse down to the WSUS\Certificate and Right Click the WSUS Published Certificate and under All Tasks, Choose Export.

🚟 Console1 - [Console Root	t\Certificates (L	ocal Computer)\	\WSUS\Certificates]
🚟 File Action View Fav	vorites Window	Help	
🗢 🔿 🖄 🖬 🐇 💺	🗙 🗐 🗟	? 🖬	
Console Root	Issued To 🔺		Issued By
🖃 🙀 Certificates (Local Con	🔙 WSUS Publish	and Californian and	WSUS Publishers Self-signed
🛨 🚞 Personal		Open	
🕀 📔 Trusted Root Cert		All Tasks →	Open
🕀 🚞 Enterprise Trust			
🕀 🚞 Intermediate Certi		Cut	Export
🕀 🚞 Trusted Publishers		Сору	
🕀 🚞 Untrusted Certifica		Delete	
🕀 🚞 Third-Party Root C		Descention	
🛨 🚞 Trusted People		Properties	
🕀 📔 Remote Desktop		Help	
🕀 📔 Smart Card Truste			1
Trusted Devices			
wsus			
Certificates			

- 4. Take the defaults for the Certificate Export Wizard. Name the certificate SCUPCert.cer.
- 5. Browse to the Trusted Root Certificate Authorities \ Certificates and right click and import the SCUPCert.Cer you just created.
- 6. Browse to the Trusted Publishers\Certificate and right click and import the SCUPCert.Cer you just created.

Setting up GPO to deploy Certificate

Creating GPO for the domain

1. Connect to Group Policy Management through MMC



2. Browse through the Domain and right click and choose "Create a GPO in this domain, and Link it here..." option

lew GPO	X
Name:	
SCUP2011-Certificate	
Source Starter GPO:	
(none)	•
	OK Cancel

3. Fill out the Name and Source Starter GPO information



4. Right click on that GPO you just created and click "Edit"

🗐 Group Policy Management Editor		
File Action View Help		
Windows Error Report	ing A Setting State	1
Windows Error Report Windows Error Report Windows Installer Windows Installer Windows Mail Windows Mail Windows Media Digital Windows Media Digital Windows Media Player Windows Med	ng Setting State ng Setting State 15 Do not display "Install Updates and Shut Down' option in Shut Do Not configured 16 Do not adjust default option to "Install Updates and Shut Down' in Not configured 18 Enabling Windows Update Power Management to automatically w Not configured 19 Enabling Windows Update Power Management to automatically w Not configured 11 Configure Automatic Updates service location Not configured 12 Specify intranet Microsoft update service location Not configured 13 E Automatic Updates detection frequency Not configured 14 Automatic Updates detection frequency Not configured 15 Allow Automatic Updates installation Not configured 16 Turn on recommended updates via Automatic Updates Not configured 16 Turn on recommended updates via Automatic Updates Not configured 17 No auto-restart with scheduled installations Not configured 18 Re-prompt for restart with scheduled installations Not configured 19 Delay Restart for scheduled installations Not configured <	
Policies Preferences	Filter Options. Re-Apply Filter	r •
	Extended Standard /	— <u> </u>
Allow signed updates from an intrane Allow signed updates from an intrane C Not Configured Comment: Enabled Disabled Supported on:	t Microsoft update service location t Microsoft update service location Previous Setting Next Setting At least Windows XP Professional with SP1 or Windows Server 2003 family	
Options:	Help:	

- 5. Go to Computer Configuration \ Policies \Administrative Templates \Windows Components \Windows Update \"Allow signed updates from an intranet Microsoft update service location" and Enabled it.
- 6. Once you create above GPO then refresh group policy on any client which is part of the domain and check the following registry key to make sure this GPO has been applied properly:

HKLM\ Software \Policies \Microsoft\Windows \Windows Update \AcceptTrustedPublisherCerts and the value for this REG_DWORD is set to 1

Creating Package/Program for distribution of Certificate to client systems

Important: You need to deploy certificate to all of the systems that are ConfigMgr clients in your environment.

1. Create Package with the following files as a source:



- a. Certutil.exe (This file is part of Windows 2003 server and located under %windir%\system32, by default.) If you still have 32bit workstations on your network, you will have to get this file from a 32bit Windows 7 workstation.
- b. **Certadm.dll** (This file is part of Windows 2003 server and located under %windir%\system32, by default.)
- c. SCUPCert.cer (This file is the one you exported from WSUS server)
- 2. Create a program (to store certificate to TrustedPublisher) using the following options and command line:

Package	Specify information	n about this package	
Program Type	1 2	1 3	
Standard Program			
Requirements	Enter a name and other d	etails for the new package. To take full advantage of new features that in	nclude the
Summary	Application Catalog, use a	n application instead.	
Progress	News		
Completion	Name. JSCO	P 2011 Cert Trusted Publisher	
	Description: Insta	I the TrustedPublisher Certifcate for SCUP 2011	<u>^</u>
			-
	Manufacturer:		
	Language:	Version:	
	This package contain	s source files	
	Source folder:		
	<directory on="" sen<="" site="" th=""><th>ver>E:\SoftwarePackages\Software\SCUP2011 Certificate</th><th>Browse</th></directory>	ver>E:\SoftwarePackages\Software\SCUP2011 Certificate	Browse
	,		
Package	Specify information	on about this standard program	
Program Type			
Standard Program			
Requirements	Name:	Install TrustedPublisher Cert	
Summary	Command line:	certutil.exe -addstore TrustedPublisher SCUPCert.cer	Browse
Progress	Startup folder:		
Completion	Bun:	Hidden	_
	Deserves		
	Program can run:	Whether or not a user is logged on	
	Run mode:	Run with administrative rights	Ψ.
	Allow users to view	and interact with the program installation	
	Drive mode:	Runs with UNC name	T
	Reconnect to distribution	ution point at log on	

a. Command Line: certutil.exe -addstore TrustedPublisher SCUPCert.cer

- b. Run: Hidden
- 3. Create a second program (to store certificate to the Root) using the following command line and options (i.e. dependency chain with first program):

Package					
Package Program Type Standard Program	Specify inform	ation about this package			
Requirements Summary Progress	Enter a name and of Application Catalog,	ther details for the new package. To take full advantage of new features that use an application instead.	include the		
Completion	Name:	SCUP 2011 Cert Root			
Congression	Description:	Install the Root Certificate for SCUP 2011	* *		
	Manufacturer:				
	Language:	Version:			
	This package c	ontains source files			
	Source folder:				
	<directory on="" p="" sit<=""></directory>	te server>E:\SoftwarePackages\Software\SCUP2011 Certificate	Browse		
Standard Program	1				
Package Program Type Standard Program	Specify inform	nation about this standard program			
Requirements	Name:	Install Root Cert			
Summary	Command line:	certutil.exe -addstore Rootr SCUPCert.cer	Browse		
Progress	Startup folder:				
Completion	Run:	Hidden	•		
	Program can run:	Whether or not a user is logged on			
	Run mode:	Run with administrative rights			
	Allow users to	view and interact with the program installation			
	Drive mode:	Runs with UNC name	•		
	Reconnect to	distribution point at log on			

- a. Command Line: certutil.exe -addstore Root SCUPCert.cer
- b. Run: Hidden
- 4. Distribute the 2 Programs
- 5. Deploy "SCUP 2011 Cert Root program" as this root program is running another program first (TrustedPublisher Cert).
- 6. Once you are done with deployment of the certificate then you will be able to deploy SCUP updates to your ConfigMgr environment.

Adding and deploying partner catalog

1. Connect to SCUP 2011 console and In the Overview Screen, click on "Add Partner Software Updates Catalogs"



2. Highlight the catalog and click on Add

		· · · · ·		
artner Catalogs			Selected Partner Cata	logs
Ubisher dobe Systems, Inc. el ujitsu Technology Sol ujitsu Technology Sol uviettPackard ewlettPackard ewlettPackard	Name Adobe Acrobat X Updates Catalog Del Busness Chent Updates Catalog Del Server Updates Catalog Fujtta VRIMERGY Updates Catalog Hewlett-Packard Clent Updates Cat Hewlett-Packard Server Updates Ci HP ProLiant Updates Catalog	Add > Add All <remove Remove All</remove 	Publisher Adobe Systems, Inc. Adobe Systems, Inc.	Name Adobe Flash Player Updates Catalog Adobe Reader X Updates Catalog
Download URL:	http://armmf.adobe.com/arm-man	ifests/win/SCUP/Acroba	t10_Catalog.cab	
Support URL:	http://www.adobe.com/support/a	crobat/		
Description:	This catalog is provided as a templ updates provided by Adobe. Orga this template before using.	ate to manage Adobe A inizations choosing to de	crobat X updates. It poin ploy Adobe updates from	its to generally available n a local server should modify

3. Go to Catalogs tab and you will see the list of catalogs. Highligt the one you want to import and right click and choose "Import"



4. Follow the wizard by clicking Next Accept the Certificate if Prompted.

Publish 3rd Party Updates

Once 3rd party catalog is successfully imported into SCUP then you need to publish those updates so that they can be synced with Configuration Manager.

1. Click on Updates tab and choose the updates you want to publish

Overview	All Adobe Systems, Inc. Ad	lobe Flash P	layer softwa	are updat	es
Del	Name	Update Type	Classification	Severity	Article ID
Adobe Systems, Inc.	Adobe Flash Player 10.2.152.26	Update	Security	Important	APS811-0
Adobe Flash Player	Adobe Flash Player 10.2.152.32	Update	Security	Important	APS811-0
Adobe Acrobat	Adobe Flash Player 10.2.153.1	Update	Security	Important	APSB11-0
Adobe Reader	Adobe Flash Player 10.2.159.1	Update	Security	Important	APSA11-0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Adobe Flash Player 10.3.181.14	Update	Security	Important	APS811-1
	Adobe Flash Player 10.3.181.16	Update	Security	Important	APS811-1
	Adobe Flash Player 10.3.181.23	Update	Security	Important	APS811-1
	Adobe Flash Player 10.3.181.26	Update	1 5 41	Important	AP5811-1
	Adobe Flash Player 10.3.181.34	Update	EGE	Important	APS811-1
			Assign		
			Dupscare		
			VIEW XML		
		~	Delete		
		12	Export		
		1	Publish		
		2	Expre		
		100	Reactivate		
			Reactivate	1	

2. Choose **Full Content** and Click **Next** and follow the wizard to complete the publish process. Accept the Certificates if Prompted.

Publish Options	Specify publish options
Summary	Select how you would like to publish the selected updates:
	C Automatic
Progress	Click Automatic to allow Updates Publisher to query Configuration Manager to determine whether the selected software updates are published with full content or only metadata. In this mode, software updates are only published when they
Confirmation	meet the client request count and package source size thresholds that are specified on the ConfigMgr Server page of the Options dialog box. If neither threshold is met, only the software update definition (metadata) is published. Automatic is available only when Configuration Manager Integration is selected on the ConfigMgr Server page.
	Full Content
	Click Full Content when you are sure that you want to deploy the software updates by using Configuration Manager. When Full Content is selected, Updates Publisher publishes the binary of the software update and the definition (metadata) of the software update.
	C Metadata Only
	Click Metadata Only when you only want to gather compliance information for the selected software updates. When Metadata Only is selected, Updates Publisher publishes only the definition of the software updates. Software update binaries are not published.
	Sign all software updates with a new publishing certificate when published software updates have not changed but their certificate has changed.
	< Previous Next > Summary Cancel

3. Once Updates are published then you can sync them with Configuration Manager using Configuration Manager Console. Once they are in Configuration Manager Console then those updates are available for deployment just like any other Microsoft updates

- 4. To run the sync, connect to the Configuration Manager 2012 console and browse through Software Updates node and right click on "All Software Updates" and choose "Synchronize Software Updates" option
- 5. Review WsyncMgr.log and notice the following:
- 6. Once they are successfully synchronized with Configuration Manager then you will be able to see it in the console and able to deploy them just like any other updates.

Software Update Point Site System Role

Install and Configure a Software Update Point

The software update point site system role must be created on a server that has WSUS installed. The software update point interacts with the WSUS services to configure the software update settings and to request synchronization of software updates metadata.

You can add the software update point site system role to an existing site system server or you can create a new one.

 On the System Role Selection page of the Create Site System Server Wizard or Add Site System Roles Wizard, depending on whether you add the site system role to a new or existing site server, select Software update point, and then configure the software update point settings in the wizard. The settings are different depending on the version of Configuration Manager that you use

Add Site System Roles V System Role Sele	ction
General System Role Selection Software Update Point Active Settings	Specify roles for this server Available roles:
Summary Progress Completion	Asset Intelligence synchronization point Frivelliment points Out of band tenricise point Proporting services point Proporting services point State migration point State migration point State migration point

 Proxy Server Settings - You can configure the proxy server settings on different pages of the Create Site System Server Wizard or Add Site System Roles Wizard depending on the version of Configuration Manager that you use

use.	
💱 Add Site System Roles W	fizard
Software Update	Point
General System Role Selection	Specify software update point settings
Software Update Point Active Settings Summary Progress Completion	A software update point integrates with Windows Server Update Services (WSUS) to provide software updates to Configuration Manager clients.
	Use a proxy server when synchronizing software updates Use a proxy server when dogmloading content with Auto Deployment Rules Proxy server name: Post: B0 Use cregentials to connect to the proxy server Software Update Point Proxy Server Account The Software Update Point Proxy Server Account provides authenticated access to the proxy server when Configuration Meager synchronizes software updates on the Internet.

 On the Active Settings page of the wizard, Select Use this server as the active software update point. Select WSUS is configured to use the custom website by default, clients communicate over ports 8530 and 8531. Click Next



4. On the **Synchronization Source** page fo the wizard, Select Synchronize from Microsoft Updates and Select Do not create WSUS reporting events. Click Next.

Synchronization So	urce
General System Role Selection Software Update Point Active Settings	Specify synchronization source settings Select the synchronization source for this software update point.
Syndrovizalen Source Syndrovizalen Schude Supersedence Rules Classifications Products Languages Summary Progress Completion	Grand and the second seco

5. On the Synchronization Schedule page of the wizard, Click on Customize and set the Custom Schedule to Every 1 day at 10:00 pm, Click OK and Next.



6. On the **Supersedence Rules** page of the wizard, Select **Immediately expire a suspended software update**. Click **Next**.



7. On the **Classifications** page of the wizard, Select **ALL** of the Classifications. Click **Next**.



8. On the **Products** page of the wizard, Select all of the products you wish to update. Make sure you include Forefront Endpoint Protection 2010.

Add Site System Roles Wi	zard
General System Role Selection Software Lindate Point	Select the products that you want to synchr
Active Settings	Products:
Synchronization Source Synchronization Scheduk	⊕- □ Bing ⊕- □ BizTalk Server ⊕- □ Developer Tools. Runtimes, and Redistributable
Supersedence Rules Classifications	
Products Languages	□ U Forefront Client Security □ V Forefront Client Security □ V Forefront Endpoint Protection 2010
Summary Progress	Greefront Protection Category Greefront Server Security Category Greefront SMC MPE
Completion	Brorefront TMG MBE Forefront TMG Forefront TMG Forefront TMG Forefront TMG Forefront code named Stirling Beta version TMG Firewall Client TMG Firewall Client Threat Management Gateway Definition U HPC Pack
	 Internet Security and Acceleration Server Microsoft Application Virtualization Microsoft Codename Max Microsoft Dynamics CRM Microsoft HealthVault

9. On the Languages page of the wizard, Select English. Click Next to finish out the Wizard.

Create Folders and Collections for SUP

To make the management of Software Updates easier we will first create some **Folders** and populate them with **Collections**. You can do this manually in the **Assets and Compliance** workspace or you can do it in an automated way using PowerShell. The below script will create a nice **Folder and Collection** structure sorting the Client Operating Systems and 3 Windows Server Operating Systems, in addition, the server Operating Systems are further divided into **Automatic** patching, **Manual** patching and **Maintenance Windows** collections. Here's the script we found on Windows-noob.com.

1. Download powershell scripts.zip -

http://www.windows-noob.com/forums/index.php?app=core&module=attach§ion=attach&attach_id=8609

Note: You may have to do the following for the downloaded powershell scripts.

- Save the script file on your computer, locate the saved script file.
- Extract the contents and then locate the powershell PS1 scripts, right-click each script file, and then click Properties.
- Click Unblock.

2. Run the script in a **Windows PowerShell** session as administrator by right-clicking on the Windows PowerShell icon and choosing **Run As Administrator** as in the screenshot below.



3. Change to the **Directory** where you've unzipped the script using CD (to change directory).



- 4. Once done we need to Set the Execution Policy to allow this script (RemoteSigned) to run.
 - a. Set-ExecutionPolicy RemoteSigned and answer Yes to the prompt.



b. Rrun the script as follows:-

.\CreateFoldersAndCollections.ps1 .\FolderAndCollections_Software_Updates.xml

c. The screen will update once you press enter...



d. Once the script is complete you can open the console in **Assets and Compliance** and refresh, you'll see the following Folders and Collections are already created.



5. Note: All of the collections have Membership queries to automatically populate the collections based on Operating System version. You may want to edit the queries further in order to exclude (or include) computers otherwise you will have overlap between those three Windows Server Collections where servers show up in all three of the respective collections.

Initiating the SUP Synchronization

Before starting our activity we want to make sure that the updates that we are looking at are **current and relevant** therefore we'll synchronize our **Software Update Point** with **Microsoft Windows Update**.



Tip: There are two types of sync, Full or Delta. A **Full sync** is performed on **schedule** (as defined in the Software Update Point scheduled synchronization), whereas a **Delta sync** occurs when you initiate a sync in the console. If a sync fails for whatever reason then it will be **retried every 60 minutes**.

Automatic Deployment Rules

Before starting this step create a folder on **W:\sources** on the SCCM-A-1 server to store our Updates. Our sources folder is shared as **source\$**. Give **Domain Admins**, **SCCM Admins**, **SCCM Servers**, and **SCCM-A-1\Administrator** Full Control to the Share as well as Security Level Rights. Also, add Everyone to the Share with Full Access. **DO NOT** add Everyone to the Security Level Rights

ADR: Endpoint Protection

1. In the Configuration Manager console, click **Software Library**, expand **Software Updates** and click **right click on Automatic Deployment Rules** and choose **Create Automatic Deployment Rule**,



2. Fill in the details as below, for name use ADR: Endpoint Protection, the naming is important, think weeks, months, years ahead when you are searching for that Automatic Deployment Rule you or someone else created, prepending ADR: Endpoint Protection will easily separate these ADR's from other ADR's created by you or other admins for patch Tuesday software updates for example.

For target collection **choose the collection you want to target with these definition updates**, in our example we will select the **All Workstations and Servers Clients** collection. Click **Next**.

General	Specify the sett	tings for this automatic deployment rule
Deployment Settings		
Software Updates		
Evaluation Schedule	Name:	ADR: Endpoint Protection
Deployment Schedule	Description:	
User Experience		
Alerts		×
Download Settings	Select a previously sa	aved deployment template that defines configuration settings for this deployment. Before you complete this wizard you
Deployment Package	nave the option to sa	ave the current configurations as a new deployment template.
Download Location		
Language Selection	Select Deploy	yment lemplate
Summary	Specify the target col	lection for the software update deployment.
Progress	Collection:	
Completion		
	Automatic deploymen rule to an existing or r	it rules define the criteria for what software updates are added to a software update group. Choose whether to add this new software update group.
	Add to an existing	g Software Update Group
	C Create a new Sof	ftware Update Group
	Choose whether to er must manually deploy	nable the deployment after this rule runs for the associated software update group. When this setting is not selected, you the software update group.
	Enable the deplo	yment after this rule is run

3. On the **Deployment Settings** page of the wizard select **Minimal** from the **Detail level** drop-down list and then click **Next**, this reduces the content of **State Messages** returned and thus reduces Configuration Manager **Server load**. Click **Next**.

General	Specify the settings for this Automatic Deployment Rule
Deployment Settings	
Software Updates	
Evaluation Schedule	Use Wake-on-LAN to wake up clients for required deployments
Deployment Schedule	
User Experience	State message detail level
Alerts	You can specify the state message detail level returned by clients for this software update deployment. A detail level of Normal returns all
Download Settings	state messages that are related to the deployment. A detail level of Minimal returns only the enforcement success, and critical error messages.
Deployment Package	
Download Location	Detaillevel:
Language Selection	
Summary	Some software updates include a license agreement. Software updates that you choose to deploy automatically will not display any license agreement to you, regardless of whether those software updates include a license agreement. You can review the Microsoft Software
Progress	License Terms in the All Updates list in the Software Updates node of the console.
Completion	
	Automatically deploy only software updates found by this rule that do not include a license agreement, or for which the license agreement has already been approved.

4. On the **Software Updates** page select **Date Released or Revised**, choose **Last 1 day**, and select **Products**, then select **Forefront Protection 2010** from the list of available products. Click **Next**.

General Deployment Settings	Select the property filters and search criteria
Software Updates	The adjustes undates that must the encoded adjusts are added to the associated adjuster undate aroun
Evaluation Schedule	The solitivale updates that meet the specified chiteria are added to the associated solitivale update group.
Deployment Schedule	Property filters:
User Experience	Atticle ID
Alerts	Bulletin ID
Download Settings	Custom Seventy
Deployment Package	Date Released or Revised
Distribution Points	
Download Location	☑ Product
Language Selection	Required
Summary	Severity 💌
Progress	Search criteria:
Completion	Date Released or Revised Last 1 day
	Product "Forefront Endpoint Protection 2010"

5. On the Evaluation Schedule page, click on Customize and set it to run every 1 days,

Tip: notice that the **Synchronization Schedule** is listed below, make sure that the **SUP synchronizes at least 2 hours** before you evaluate for Forefront Endpoint Protection definition updates, there is no point checking for updates if we haven't synchronized yet. Click **OK** and **Next**.

General Deployment Settings	Specify the recurring schedule for this rule
Software Updates Evaluation Schedule Deployment Schedule	Specify a schedule to run this rule. You can manually run this rule regardless of any configured scheduled.
User Experience Alerts	F Enable rule to run on a schedule
Download Settings	Custom Schedule
Deployment Package	
Download Location	Start: 5/30/2013 12:00 AM
Language Selection	
Summary	
Progress	Recurrence pattern synchronization, recurring schedules should not
Completion	Configure the recurrence schedule.
	C None Recur every:
	C Monthly
	C Weekly
	Custom interval

6. On the Deployment Schedule page, set Time based on: UTC if you want all clients in the hierarchy to install the latest definitions at the same time, this setting is a recommended best practice. For software available select 2 hours to allow sufficient time for the Deployment to reach all Distribution Points and select As soon as possible for the installation Deadline. Click Next.

Note: Software update deadlines are **randomized over a 2-hour period** to prevent all clients from requesting an update at the same time.

General Deployment Settings	Configure schedule details for this deployment
Deployment Settings Software Updates Evaluation Schedule User Experience Alerts Download Settings Deployment Package Distribution Points Download Location Language Selection Summary Progress Completence	Schedule evaluation Specify if the schedule for this deployment is evaluated based upon Universal Coordinated Time (UTC) or the local time of the client. Time based on: Image:
- -	Installation deadline - Specify an deadline for required software updates. The deadline is determined by adding the deadline time to the installation time. When the deadline is reached, required software updates are installed on the device and the device is restarted if necessary. As soon as possible Specific time: 7 Deadline Time from deployment available time):

7. On the User Visual Experience page, select Hide in Software Center and all notifications from the drop down menu and suppress restarts on Servers. Click Next.

General	Specify the user experience for this deployment
Deployment Settings	
Software Updates	
Evaluation Schedule	User visual experience
Deployment Schedule	User notifications: Hide in Software Center and all notifications
User Experience	
Alerts	Deadline behavior
Download Settings	When the installation deadline is reached, allow the following activities to be performed outside of any defined maintenance windows:
Deployment Package	
Distribution Points	☐ Software Installation
Download Location	System restart (if necessary)
Language Selection	
Summary	
Progress	Device restart behavior
Completion	Some software updates require a system restart to complete the installation process. You can suppress this restart on servers and workstations.
	Suppress the system restart on the following devices:
	✓ Servers
	Workstations

8. On the **Alerts** page, enable the option to generate an alert, set the compliance percentage to be equal to the SLA you expect for that site, in this example we'll select 85%. Click **Next**.

General	Specify software update alert options for this deployment
Deployment Settings	
Software Updates	
Evaluation Schedule	Configuration Manager alerts
Deployment Schedule	Specify the criteria for generating a Configuration Manager alert.
User Experience	Generate an alert when the following conditions are met
Alerts	Client compliance is below the following percent;
Download Settings	
Deployment Package	Offset from the deadline: 7 📩 Days 💌
Distribution Points	Alerts are generated after the installation deadline is reached
Download Location	Deadline time:
Language Selection	
Summary	
Progress	Operations Manager alerts System Center Operations Manager might generate alerts when a device installs a software undate. To avoid receiving alerts for planned
Completion	maintenance, you can disable these alerts during the duration of the software update installation process.
1	
(Disable Operations Manager alerts while software updates run
	Generate Operations Manager alett when a software update installation fails

9. On the **Download Settings** page, we want to be sure that our clients get these malware definitions regardless of whether they are on slow site boundaries or not, so we will set both options accordingly. Click **Next**.

General	Specify the software updates download behavior for clients on slow site boundaries.
Deployment Settings	
Software Updates	
Evaluation Schedule	Select the deployment option to use when a client is within a slow or unreliable network boundary, or when the client uses a fallback source
Deployment Schedule	location for content.
User Experience	Deployment options:
Alerts	C Do not install software undates
Download Settings	
Deployment Package	Download software updates from distribution point and install
Distribution Points	· · · · · · · · · · · · · · · · · · ·
Download Location	When software updates are not available on any preferred distribution points, clients can download and install software updates from a fallback source location for content
Language Selection	
Summary	Deployment options:
Progress	C Do not install software updates
Completion	C Download and install software updates from the failback content source location
	Allow clients to share content with other clients on the same subnet

10. For **Deployment Package page**, we need to create a **New Deployment Package**, give it a suitable name like **Endpoint Protection Definition Updates** and point it to a previously created shared folder

(<u>\\sccm-a-1\source\$\EndpointUpdates</u>). Click **Next**.

General	Select deployment package for this automatic deployment rule			
Deployment Settings				
Software Updates				
Evaluation Schedule	The deployment package contains the software update files associated with this rule that will be available to clients as part of the deployment. You can select an existing deployment package or create a new one.			
Deployment Schedule				
User Experience				
Alerts	C. Select deelement england			
Download Settings	Select deployment package:			
Deployment Package	Browse			
Distribution Points	Create a new deployment package:			
Download Location	Name:			
Language Selection	EndPoint Protection Updates			
Summary	Description:			
Progress				
Completion				
	Package source (Example):\\server>\dolder path>			
	Package source (Example):\\cserver>\dolder path> Nsccma-r\sourceS\EndporrLupdates Browse			
	Package source (Example):\\ <server>\dolder path> Nscom-a-11source \$1EndpointUpdates Browse</server>			
	Package source (Example):\\ <server>\dfolder path> Nscom-a-NsourceS\EndporrUpdate8 Browse Sending priority:</server>			

11. On the **Distribution Points** page, click on the drop down **Add** button and select **distribution point**, select our distribution point on our primary server (SCCM-A-1) and click **OK** and **Next**.

General Deployment Settings Software Updates Evaluation Schedule	Distribution points or distribution point groups to host the content
Deployment Schedule User Experience Alerts Download Settings Deployment Package Distribution Points Download Location Language Selection Summary Progress Completion	Filter Add the existing distribution points to distribute content using the checkboxes below. Name Available distribution points: Filter P Name Name Name VISCCM-A-1 school Jocal

12. Click your way through the rest of the Wizard until you reach the **summary** screen but before finishing the wizard.

ADR: Windows 7 Patch Tuesday

Now we will create a new ADR to automatically deploy **Windows 7 Updates** once a month on a **recurring schedule** (after **patch Tuesday**, Microsoft releases new updates every month on the **second Tuesday of the month**). Once you understand how this works you can customize it to suit your needs to keep your systems patched in an automated way on a **recurring schedule**.

1. In the **Software Updates** section of the console, select **Automatic Deployment Rules** and in the ribbon click **Create Automatic Deployment Rule**.



2. On the General page of the wizard, enter Name ADR: Software Updates - Windows 7 monthly Updates. Click on browse and you'll notice our nice folder and collection structure makes it easy to select the right collection, select the Software Updates - Windows 7 collection. As this ADR is for Patch Tuesday and occurs on a recurring schedule every month, we will choose to create a new software update group every time it runs; this means that we can have a single software update group to measure compliance against when the rule runs.



3. On the **Deployment Settings** page, set the verbosity level of state messages to **Normal** (default is minimal) as we want to be able to determine what went wrong if some computers are **not compliant** after the rule is run and having all those state messages will help.

General	Specify the settings for this Automatic Deployment Rule	
Deployment Settings	1 3 3 1 3	
Software Updates		
Evaluation Schedule	Use Wake-on-LAN to wake up clients for required deployments	
Deployment Schedule		
User Experience	State message detail level	
Alerts	You can specify the state message detail level returned by clients for this software update deployment. A detail level of Normal returns all	
Download Settings	state messages that are related to the deployment. A detail level of Minimal returns only the enforcement success, and critical error messages.	
Deployment Package		
Download Location		
Language Selection		
Summary	Some software updates include a license agreement. Software updates that you choose to deploy automatically will not display any license agreement to you, regardless of whether those software updates include a license agreement. You can review the Microsoft Software	
Progress	License Terms in the All Updates list in the Software Updates node of the console.	
Completion		
	C Automatically deploy only software updates found by this rule that do not include a license agreement, or for which the license agreement has already been approved.	
	• Automatically deploy all software updates found by this rule, and approve any license agreements	

- 4. On the Software Updates screen select the following options:
 - a. Date release or revised Last 1 day
 - b. Product **Windows 7** (This means that when the rule runs it will find all **Windows 7 updates released in the last 1 day**)

General	Select the property filters and search criteria
Software Updates	
Evaluation Schedule	The software updates that meet the specified criteria are added to the associated software update group.
Deployment Schedule	Property filters:
User Experience	
Alerts	Bulletin ID
Download Settings	Custom Severity
Deployment Package	Date Released or Revised
Download Location	
Language Selection	Product
Summary	
Progress	Seventy 💌
Completion	Search ontena:
	Date Released or Revised Last 1 day
	Product " <u>Windows 7"</u>

5. On the Evaluation Schedule screen click on Customize and set the schedule accordingly, set it to start running on the second Tuesday of the current month, and to recur monthly on the second Tuesday of every month at least two hours after the SUP has synched (which should give it time to sync). You can see that the SUP sync time is highlighted and that helps you to plan your ADR deployment.

General	Specify the recurring schedule for this rule
Deployment Settings	
Software Updates	
Evaluation Schedule	Specify a schedule to run this rule. You can manually run this rule regardless of any configured scheduled.
Deployment Schedule	
User Experience	-
Alerts	Enable rule to run on a schedule
Download Settings	
Deployment Package	Occurs every 30 days effective 11/3/2012 T1:22 PM
Download Location	
Language Selection	
Summary	
Progress	Because automatic deployment rules are dependent on a current software update point synchronization, recurring schedules should not
Completion	Custom Schedule
	- Time
	Current software update point synchronization schedule:
	Occurs every 1 days effective 11/3/2012 7:00 PM
	Recurrence pattern
	Configure the recurrence schedule.
	C None Recur every: 1 💼 months on:
	Monthly Day
	C Waskly C The last day of the month
	C Custom interval C Custom interval

6. On the **Deployment Schedule** screen set the **Software Available Time** to be at least **4 hours** after the rule has run in order for the actual software updates deployment packages to reach the destination distribution points.

Deployment Settings	
Software Updates	
Evaluation Schedule	Schedule evaluation Specify if the schedule for this deployment is evaluated based upon Universal Coordinated Time (UTC) or the local time of the client
Deployment Schedule	Speciry in the schedule for this deployment is evaluated based upon on wersal coordinated. This (onc) or the rocar time of the clerk.
User Experience	Time based on: Client local time
Alerts	Software available time
Download Settings	Specify when software updates are available. After this rule is run, software updates are distributed to the content server. Then the
Deployment Package	software updates are available to install as soon as possible or scheduled to install at a configured period of time after the rule is run.
Download Location	Note: You must enable this deployment before software updates are available to install.
Language Selection	
Summary	C As soon as possible
Progress	Specific time: 4 Hours
Completion	Available time:
	11/14/2012 1:22:00 AM
	Installation deadline
	Specify an deadline for required software updates. The deadline is determined by adding the deadline time to the installation time. When
	the deadline is reached, required software updates are installed on the device and the device is restarted if necessary.
	O As soon as possible
	Specific time: 7 Days
	Deadline Time (from deployment available time):
	11/01/0010 1/00-00 AM
	17/21/2012 1.22.00 AM

7. On the User Experience screen, for User Notification select Display in Software Center and show all notifications. If you were targeting Server Operating systems with automatic deployment rules then you'd probably want to suppress the system restart.

Deployment Settings			
Softman operations			
Deployment Schedule User notifications: Display in Software Center and show all notifications	- I		
User Experience			
Alerts Deadline behavior			
Download Settings When the installation deadline is reached, allow the following activities to be performed outside of any defined maintenance windows:			
Deployment Package			
Download Location			
Language Selection System restart (f necessary)			
Summary			
Progress			
Completion Device restart behavior			
Some software updates require a system restart to complete the installation process. You can suppress this restart on servers and workstations.			
Suppress the system restart on the following devices:			
Servers			
☐ Workstations			

8. If you want to be alerted when the compliance threshold **is below the desired compliance level** then select the next option on the **Alerts** screen.

General Deployment Settings	Specify software update alert options for this deployment	
- C		
Software Updates		
Evaluation Schedule	Configuration Manager alerts	
Deployment Schedule	Specify the criteria for generating a Configuration Manager alert.	
Uses Franciscos	Generate an alert when the following conditions are met	
Oser Experience		
Alerts	Client compliance is below the following percent: 90	
Download Settings		
Deployment Package	Offset from the deadline: 7 📩 Days	
Download Location	Alerts are generated after the installation deadline is	
Language Selection	Deadline time:	
Summary		
Progress		
Completion	Operations Manager alerts	
Completion	System Center Operations Manager might generate alerts when a device installs a software update. To avoid receiving alerts for planned maintenance, you can disable these alerts during the duration of the software update installation process.	
	Disable Operations Manager alerts while software updates run	
	Generate Operations Manager alert when a software update installation fails	

9. On the **Download Settings** page, leave it as default. Click Next.



10. On the Deployment Package screen, select to **create a new deployment package** (as none will exist that we want to use). Once it has run, you can **retire that rule** by **disabling** it (right click on the ADR, choose Disable) and then you should recreate an identical rule except in the replacement rule, for Deployment Package choose the **previously created package** (Windows 7 Monthly Updates) so that it re-uses the package every month.

General Deployment Settings	Select deployment package for this automatic deployment rule			
Software Updates				
Evaluation Schedule	The deployment package contains the software update files associated with this rule that will be available to clients as part of the deployment. You can select an existing deployment package or create a new one.			
Deployment Schedule				
User Experience				
Alerts				
Download Settings	Select deployment package:			
Deployment Package	Browse			
Distribution Points	Create a new deployment package:			
Download Location	Name			
Language Selection	Windows 7 Monthly Updates			
Summary	Description:			
Progress	Deploying monthly updates using Configuration Manager 2012, (c) windows-noob.com November 2012.			
Completion				
	Package source (Example):\\ <server>\dolder path></server>			
	\\SCCM-A-1\sources\Windows 7 Browse Browse			
	Sending priority:			
	Medium			

11. On the **Distribution Points** page, click on the drop down **Add** button and select **distribution point**, select our distribution point on our primary server (SCCM-A-1) and click ok.

General Deployment Settings Software Updates Evaluation Schedule Deployment Schedule	Specify the distribution points or distribution point groups to host the content Distribution Add Distribution Points	
User Experience Alerts Download Settings Deployment Package Distribution Points	Filter Add the existing distribution points to distribute content using the checkboxes below. P Name Available distribution points: Image: Checkboxes below. Image: Checkboxes be	Add Remove
Download Location Language Selection Summary Progress Completion		Ð

12. Continue through the rest of the wizard through to the **Summary** screen, on that screen click on **Save as Template** so that you can reuse the settings, Name the template Windows 7 Monthly Updates



13. Right Click on the newly created ADR and choose **Run Now**, we do this to create the **Deployment Package**. After running the rule, verify that the Deployment Package is indeed created and when done, right click on the ADR again, and choose **Disable**.

Software Library <	Automa	tic Deployment Rules 15 items		
4 💣 Overview	Search		X 💭 Search Add	d Criteria
Application Management	Icon	Name	Description	Enable
🔺 🛄 Software Updates		ADR: Endpoint Protection	Automatic Deployment Rule for Endpoint Pro	No
🐻 All Software Updates	E.	ADR: Endpoint Protection - Endpoint Protection Managed Desktops		Yes
🔊 Software Update Groups	E	ADR: Endpoint Protection - Endpoint Protection Managed Laptops		Yes
Deployment Packages	E	ADR: Endpoint Protection - Endpoint Protection Managed Servers - Configuration Manager	r	Yes
Automatic Deployment Rules	E	ADR: Endpoint Protection - Endpoint Protection Managed Servers - DHCP		Yes
Operating Systems		ADR: Endpoint Protection - Endpoint Protection Managed Servers - DNS		Yes
		ADR: Endpoint Protection - Endpoint Protection Managed Servers - Domain Controller		Yes
	E.	ADR: Endpoint Protection - Endpoint Protection Managed Servers - Exchange		Yes
	E	ADR: Endpoint Protection - Endpoint Protection Managed Servers - File Server		Yes
	E	ADR: Endpoint Protection - Endpoint Protection Managed Servers - Hyper-V		Yes
		ADR: Endpoint Protection - Endpoint Protection Managed Servers - IIS		Yes
		ADR: Endpoint Protection - Endpoint Protection Managed Servers - Operations Manager		Yes
		ADR: Endpoint Protection - Endpoint Protection Managed Servers - SharePoint		Yes
	Ľ	ADR: Endpoint Protection - Endpoint Protection Managed Servers - SQL Server 2008		Yes
🕵 Assets and Compliance	E.	ADR: Software Updates - Windows 7 monthly Updates	Deploying updates for Windows 7 automatic	Yes
Software Library		Run Now		
No software Library		() Enable		
Monitoring		Jisable		
Administration		📿 Refresh	F5	
		X Delete	Delete	

 Once done recreate the rule (the ADR: Software Updates – Windows 7 Monthly Updates) but this time use the Windows 7 Monthly Updates Template and point it to that package during the wizard in the Select Deployment Package option like in the screenshot below.

General Deployment Settings Software Updates	Select deployment package for this automatic deployment rule
Evaluation Schedule Deployment Schedule User Experience	The deployment package contains the software update files associated with this rule that will be available to clients as part of the deployment. You can select an existing deployment package or create a new one.
Alerts Download Settings	C Select deployment package:
Deployment Package	Windows 7 Monthly Updates Browse
Download Location	C Create a new deployment package:
Language Selection	Name:
Summary	
Progress	Description:
Completion	

15. Repeat the above for your **Windows XP** clients just as we've done for **Windows 7**, except obviously change the **Product name** from Windows 7 to Windows XP and point the collection to the **Windows XP** equivalent...



16. At this point your ADR's are created and you are ready to sit back and watch as your Windows XP and Windows 7 clients get automatically patched on Patch Tuesday. Awesome.

Software Library <	Automatic Deployment Rules 18 items			
4 💣 Overview	Search		X 🔎 Search Add	Criteria 🔻
Application Management	Icon	Name	Description	Enabled
🔺 🚞 Software Updates	E.	ADR: Software Updates - Windows 7 Monthly Updates	Deploying updates for Windows 7 automatic	Yes
4 🐻 All Software Updates	1	ADR: Software Updates - Windows XP Monthly Updates	(c) windows-noob.com November 2012	Yes
🛐 Windows 7 Monthly Update	1	ADR: Endpoint Protection	Automatic Deployment Rule for Endpoint Pro	No
🔊 Software Update Groups		ADR: Endpoint Protection - Endpoint Protection Managed Desktops		Yes
🔂 Deployment Packages		ADR: Endpoint Protection - Endpoint Protection Managed Laptops		Yes
Automatic Deployment Rules		ADR: Endpoint Protection - Endpoint Protection Managed Servers - Configuration Manager		Yes
Operating Systems		ADR: Endpoint Protection - Endpoint Protection Managed Servers - DHCP		Yes
		ADR: Endpoint Protection - Endpoint Protection Managed Servers - DNS		Yes
		ADR: Endpoint Protection - Endpoint Protection Managed Servers - Domain Controller		Yes
		ADR: Endpoint Protection - Endpoint Protection Managed Servers - Exchange		Yes
		ADR: Endpoint Protection - Endpoint Protection Managed Servers - File Server		Yes
		ADR: Endpoint Protection - Endpoint Protection Managed Servers - Hyper-V		Yes
		ADR: Endpoint Protection - Endpoint Protection Managed Servers - IIS		Yes
		ADR: Endpoint Protection - Endpoint Protection Managed Servers - Operations Manager		Yes
🕵 Assets and Compliance	1	ADR: Endpoint Protection - Endpoint Protection Managed Servers - SharePoint		Yes
····		ADR: Endpoint Protection - Endpoint Protection Managed Servers - SQL Server 2008		Yes
Software Library		ADR: Software Updates - Windows 7 monthly Updates	Deploying updates for Windows 7 automatic	No
Monitoring	I	ADR: Software Updates - Windows XP Monthly Updates		No
Z Administration				

ADR: Adobe Updates

1. In the **Software Updates** section of the console, select **Automatic Deployment Rules** and in the ribbon click **Create Automatic Deployment Rule**.



 On the General page of the wizard, enter Name ADR: Adobe Software Update. Click on browse and you'll notice our nice folder and collection structure makes it easy to select the right collection, select the All Desktop and Server Clients collection. Choose to Add to an existing Software Update Group. Click Next.

General	Specify the settings for this automatic deployment rule					
Deployment Settings						
Software Updates						
Evaluation Schedule	Name: ADR: Adobe Software Update					
Deployment Schedule	Description					
User Experience						
Alerts						
Download Settings	Select a previously saved deployment template that defines configuration settings for this deployment. Before you complete this wizard you					
Deployment Package	have the option to save the current configurations as a new deployment template.					
Download Location						
Language Selection	Select Deployment Template					
Summary	Specify the target collection for the software update deployment.					
Progress	Collection: All Desktop and Server Clients Browse					
Completion						
	Automatic deployment rules define the criteria for what software updates are added to a software update group. Choose whether to add this rule to an existing or new software update group.					
	Add to an existing Software Update Group					
	C Create a new Software Update Group					
	Choose whether to enable the deployment after this rule runs for the associated software update group. When this setting is not selected, you must manually deploy the software update group.					
	✓ Enable the deployment after this rule is run					

3. On the **Deployment Settings** page, set the verbosity level of state messages to **Normal** (default is minimal) as we want to be able to determine what went wrong if some computers are **not compliant** after the rule is run and having all those state messages will help.

General	Specify the settings for this Automatic Deployment Rule
Deployment Settings	
Software Updates	
Evaluation Schedule	Use Wake-on-LAN to wake up clients for required deployments
Deployment Schedule	
User Experience	State message detail level
Alerts	You can specify the state message detail level returned by clients for this software update deployment. A detail level of Normal returns all
Download Settings	state messages that are related to the deployment. A detail level of Minimal returns only the enforcement success, and critical error
Deployment Package	incesages.
Download Location	Detaillevel:
Language Selection	
Summary	Some software updates include a license agreement. Software updates that you choose to deploy automatically will not display any license agreement to you, regardless of whether those software updates include a license agreement. You can review the Microsoft Software
Progress	License Terms in the All Updates list in the Software Updates node of the console.
Completion	
	C Automatically deploy only software updates found by this rule that do not include a license agreement, or for which the license agreement has already been approved.

- 4. On the Software Updates screen select the following options:
 - a. Date release or revised Last 1 day
 - b. Product Adobe Flash Player and Adobe Reader

General Deployment Settings	Select the property filters and search criteria
Software Updates	
Evaluation Schedule	The software updates that meet the specified criteria are added to the associated software update group.
Deployment Schedule	Property filters:
User Experience	Atticle ID
Alerts	
Download Settings	Custom Severity
Deployment Package	Date Released or Revised
Distribution Boints	Description
Distribution Forma	
Download Location	Product
Language Selection	Required
Summary	Severity
-	Search criteria:
Progress	
Completion	Date Released or Revised Last 1 day
	Product "Adobe Flash Player" OR "Adobe Reader"

 On the Evaluation Schedule screen click on Customize and set the schedule accordingly, set it to start running at 12:00 AM at least two hours after the SUP has synched (which should give it time to sync).

General	Specify the recurring schedule for this rule
Deployment Settings	
Software Updates	
Evaluation Schedule	Specify a schedule to run this rule. You can manually run this rule regardless of any configured scheduled.
Deployment Schedule	
User Experience	_
Alerts	Enable rule to run on a schedule
Download Settings	
Deployment Package	iustom Schedule
Distribution Points	Time
Download Location	Start: 5/29/2013 🔽 12:00 AM 📑
Language Selection	
Summary	Recurrence pattem
Progress	Configure the recurrence schedule.
Completion	
	C None Recur every:
	C Waakky
	Custom interval
	OK Cancel

6. On the **Deployment Schedule** screen set the **Software Available Time** to be at least **1 Day** after the rule has run in order for the actual software updates deployment packages to reach the destination distribution points.

General Deployment Settings	Configure schedule details for this deployment
Software Updates Evaluation Schedule Deployment Schedule	Schedule evaluation Specify if the schedule for this deployment is evaluated based upon Universal Coordinated Time (UTC) or the local time of the clent.
User Experience	Time based on: Client local time
Alerts	Software available time
Download Settings	Specify when software updates are available. After this rule is run, software updates are distributed to the content server. Then the software updates are available to install as soon as possible or scheduled to install at a configured period of time after the rule is run.
Deployment Package	Note: Yes must each this dealerment before address an available to indall
Distribution Points	Note: rou must enable this deployment before software updates are available to install.
Download Location	C. As were as were the
Language Selection	
Summary	• specific time: 1 Days •
Progress	Available time:
Completion	5/30/2013 12:00:00 AM
	Installation deadine Specify an deadine for required software updates. The deadine is determined by adding the deadine time to the installation time. When the deadine is reached, required software updates are installed on the device and the device is restarted if necessary. C As soon as possible
	C Specific time: 7 T Days
	Deadline Time (from deployment available time):
	6/6/2013 12:00:00 AM

7. On the User Experience screen, for User Notification select Display in Software Center and show all notifications. If you were targeting Server Operating systems with automatic deployment rules then you'd probably want to suppress the system restart.



- 8. If you want to be alerted when the compliance threshold **is below the desired compliance level** then select the next option on the **Alerts** screen.
- 9. On the Download Settings page, leave it as default. Click Next.
- 10. On the Deployment Package screen, select to **create a new deployment package**, give it a suitable name like **Adobe Updates** and point it to a previously created shared folder (\\sccm-a-1\source\$\AdobeUpdates)

General Deployment Settings	Select deployment package for this automatic deployment rule
Software Updates Evaluation Schedule Deployment Schedule User Experience	The deployment package contains the software update files associated with this rule that will be available to clients as part of the deployment. You can select an existing deployment package or create a new one.
Alerts Download Settings	C Select deployment peckage:
Deployment Package	Browse
Distribution Points	Create a new deployment package:
Download Location	Name:
Language Selection	Adobe Updates
Summary	Description:
Progress Completion	Updates for Adobe Reader and Rish Player
	Package source (Example):\\ <server>\dfolder path></server>
	Vsccm-a-1\source\$\AdobeUpdates Browse
	Sending priority:
	Medium

11. On the **Distribution Points** page, click on the drop down **Add** button and select **distribution point**, select our distribution point on our primary server (SCCM-A-1) and click ok.

General Deployment Settings	Specify the distribution points or distribution point groups to host the content
Software Updates	×
Evaluation Schedule	Distribution points or distribution point groups:
Deployment Schedule	X
User Experience	Filter Add Distribution Points
Alerts	Name Add the existing distribution points to distribute content using the Remove
Download Settings	checkboxes below.
Deployment Package	Available distribution points:
Distribution Points	Filter
Download Location	Name
Language Selection	V\SCCM-A-1.school.local
Summary	
Progress	

12. Click through the rest of the Wizard. Right Click the new ADR and chose Run now.

Monitoring and Troubleshooting

Montior the WsyncMgr.log file to determine Sync Activity

To monitor the sync progress open the **WsyncMgr.log**. Before continuing, confirm that the **sync has succeeded** on your PSD server by looking for the following line in **WsyncMgr.log**

Sync Succeeded. Setting sync alert to cancelled state on site PSD.



Tip: To watch the sync in real-time you can start the **Windows Server Update Services** Console, this will show you any error messages pertaining to the synchronization process (such as services that are not started when they should be) and will give you a percentage reading as the sync takes place. DO NOT make any changes to the WSUS system using the Windows Server Update Services Console. This will mess up Software Update Point configuration.



Monitor the RuleEngine.log file to determine ADR activity

To get a better understanding of what happens when our ADR runs we will monitor the log it uses for processing ADRs. On Patch Tuesday when our ADR runs it logs the fact to the **RuleEngine.log** file.

Tip: The RuleEngine.Log file is located in E:\Microsoft Configuration Manager\Logs

Open this log file in **CMtrace** and you'll see the following when the ADR runs on a schedule. Notice that I've configured my rule to run in a few minutes from now purely for the purpose of capturing the event in the log.

Configuration Manager Trace Log Tool - [E:\Microsoft Configuration Manager\Logs\ruleengine.log]				l X
File Tools Window Help			_ 8	L X
😂 🗏 🖨 🖿 🛤 🔢 🗖				
Log Text	Comp	Date/Time	Thread	
CRuleHandler: Need to Process 0 rules	SMS_RU	6/4/2013 10:43:31 AM	2576 (0xA10)	
CRuleHandler: ResetRulesAndCleanUp()	SMS_RU	6/4/2013 10:43:31 AM	2576 (0xA10)	
Refreshed ScheduleList instance for Rule (16777217) from schedule string (001D5AC000100008) with next occurence (6/5/2013 12:00:00	SMS_RU	6/4/2013 10:43:31 AM	2584 (0xA18)	
Refreshed ScheduleList instance for Rule (16777218) from schedule string (019D5AC000100008) with next occurence (6/4/2013 12:00:00	SMS_RU	6/4/2013 10:43:31 AM	2584 (0xA18)	
Refreshed ScheduleList instance for Rule (16777219) from schedule string (019D5AC000100008) with next occurence (6/4/2013 12:00:00	SMS_RU	6/4/2013 10:43:31 AM	2584 (0xA18)	
FindNextEventTime found next event for RuleID 16777218 as :6/4/2013 12:00:00 PM	SMS_RU	6/4/2013 10:43:31 AM	2584 (0xA18)	
RuleEngine: Got next rule execution time successfully. Next event is in 76 minutes	SMS_RU	6/4/2013 10:43:31 AM	2584 (0xA18)	
RuleEngine: 76 minutes is greater than MAX_TIME of 15 minutes, will sleep for MAX_TIME	SMS_RU	6/4/2013 10:43:31 AM	2584 (0xA18)	
Found notification file E:\Microsoft Configuration Manager\inboxes\RuleEngine.box\16777218.RUL	SMS_RU	6/4/2013 10:45:26 AM	2576 (0xA10)	
RuleSchedulerThred: Change in Rules Object Signalled.	SMS_RU	6/4/2013 10:45:26 AM	2584 (0xA18)	
CRuleHandler: Need to Process 0 rules	SMS_RU	6/4/2013 10:45:26 AM	2576 (0xA10)	
CRuleHandler: ResetRulesAndCleanUp()	SMS_RU	6/4/2013 10:45:26 AM	2576 (0xA10)	
Refreshed ScheduleList instance for Rule (16777217) from schedule string (001D5AC000100008) with next occurence (6/5/2013 12:00:00	SMS_RU	6/4/2013 10:45:26 AM	2584 (0xA18)	
Refreshed ScheduleList instance for Rule (16777218) from schedule string (797D5AC000100008) with next occurence (6/4/2013 11:30:00	SMS_RU	6/4/2013 10:45:26 AM	2584 (0xA18)	
Refreshed ScheduleList instance for Rule (16777219) from schedule string (019D5AC000100008) with next occurence (6/4/2013 12:00:00	SMS_RU	6/4/2013 10:45:26 AM	2584 (0xA18)	
FindNextEventTime found next event for RuleID 16777218 as :6/4/2013 11:30:00 AM	SMS_RU	6/4/2013 10:45:26 AM	2584 (0xA18)	
RuleEngine: Got next rule execution time successfully. Next event is in 44 minutes	SMS_RU	6/4/2013 10:45:26 AM	2584 (0xA18)	
RuleEngine: 44 minutes is greater than MAX_TIME of 15 minutes, will sleep for MAX_TIME	SMS_RU	6/4/2013 10:45:26 AM	2584 (0xA18)	-
Date/Time: 6/4/2013 10:45:26 AM Component: SMS_RULE_ENGINE				
Thread: 2584 (0xA18) Source:				
RuleEngine: 44 minutes is greater than MAX_TIME of 15 minutes, will sleep for MAX_TIME				A

When the actual scheduled time occurs the ADR will be triggered and you'll see lines similar to the following in the log

Note: the **Updated next occurrence** will be **one month from the date listed** (and not one day as in the screenshot below), this screenshot shows one day as I adjusted it to run for this guide as described in the notes above.

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Log Text	Component	Date/Time	Thread
Refreshed ScheduleList instance for Rule (13) from schedule string (6C468A8000100008) with next occurence (12/8/2012 2:27:00	AM) SMS_RULE_ENGINE	12/7/2012 11:41:58 AM	(1860 (0x744)
Refreshed ScheduleList instance for Rule (14) from schedule string (70468A8000100008) with next occurence (12/8/2012 2:28:00	AM) SMS_RULE_ENGINE	12/7/2012 11:41:58 AM	1860 (0x744)
Refreshed ScheduleList instance for Rule (15) from schedule string (74468A8000100008) with next occurence (12/8/2012 2:29:00	AM) SMS_RULE_ENGINE	12/7/2012 11:41:58 AM	(1860 (0x744)
Refreshed ScheduleList instance for Rule (17) from schedule string (5AADBA8000231400) with next occurence (12/11/2012 9:22:0	0 PM) SMS_RULE_ENGINE	12/7/2012 11:41:58 AM	(1860 (0x744)
Refreshed ScheduleList instance for Rule (18) from schedule string (B567CA8000100008) with next occurence (12/7/2012 11:45:01	0 AM) SMS_RULE_ENGINE	12/7/2012 11:41:58 AM	(1860 (0x744)
Refreshed ScheduleList instance for Rule (19) from schedule string (C2ADBA8000231400) with next occurence (12/11/2012 9:48:0	0 PM) SMS_RULE_ENGINE	12/7/2012 11:41:58 AM	(1860 (0x744)
Refreshed ScheduleList instance for Rule (20) from schedule string (22EDBA8000231400) with next occurence (12/11/2012 11:08:	00 PM) SMS_RULE_ENGINE	12/7/2012 11:41:58 AM	(1860 (0x744)
FindNextEventTime found next event for RuleID 18 as :12/7/2012 11:45:00 AM	SMS_RULE_ENGINE	12/7/2012 11:41:58 AM	(1860 (0x744)
RuleEngine: Got next rule execution time successfully. Next event is in 3 minutes	SMS_RULE_ENGINE	12/7/2012 11:41:58 AM	(1860 (0x744)
RuleSchedulerThred: Next Event Time Signalled.	SMS_RULE_ENGINE	12/7/2012 11:45:01 AM	(1860 (0x744)
RuleSchedulerThred: Timeout Signalled. RuleEngine needs to run one or more of the Rules	SMS_RULE_ENGINE	12/7/2012 11:45:01 AM	(1860 (0x744)
Marked RuleID 18 for Evaluation. Updated Next Occurence as :12/8/2012 11:45:00 AM	SMS_RULE_ENGINE	12/7/2012 11:45:01 AM	(1860 (0x744)
FindNextEventTime found next event for RuleID 2 as :12/8/2012 2:00:00 AM	SMS_RULE_ENGINE	12/7/2012 11:45:01 AM	(1860 (0x744)
RuleEngine: Got next rule execution time successfully. Next event is in 854 minutes	SMS_RULE_ENGINE	12/7/2012 11:45:01 AM	(1860 (0x744)
RuleEngine: 854 minutes is greater than MAX_TIME of 15 minutes, will sleep for MAX_TIME	SMS_RULE_ENGINE	12/7/2012 11:45:01 AM	(1860 (0x744)
Found notification file D:\Program Files\Microsoft Configuration Manager\inboxes\RuleEngine.box\18.RUL	SMS_RULE_ENGINE	12/7/2012 11:45:04 AM	2268 (0x8DC)
RuleSchedulerThred: Change in Rules Object Signalled.	SMS_RULE_ENGINE	12/7/2012 11:45:04 AM	1860 (0x744)
Constructing Rule 18 using Auto Deployment Rule Factory	SMS_RULE_ENGINE	12/7/2012 11:45:04 AM	2268 (0x8DC)
Populating Rule Skeleton	SMS_RULE_ENGINE	12/7/2012 11:45:04 AM	2268 (0x8DC)
Populating Criterion Skeleton	SMS_RULE_ENGINE	12/7/2012 11:45:04 AM	2268 (0x8DC)
Refreshed ScheduleList instance for Rule (2) from schedule string (00458A8000100008) with next occurence (12/8/2012 2:00:00 A	M) SMS_RULE_ENGINE	12/7/2012 11:45:04 AM	(1860 (0x744)
Refreshed ScheduleList instance for Rule (3) from schedule string (14468A8000100008) with next occurence (12/8/2012 2:05:00 A	M) SMS_RULE_ENGINE	12/7/2012 11:45:04 AM	(1860 (0x744)
Refreshed ScheduleList instance for Rule (4) from schedule string (20468A8000100008) with next occurence (12/8/2012 2:08:00 A	M) SMS_RULE_ENGINE	12/7/2012 11:45:04 AM	(1860 (0x744)
Refreshed ScheduleList instance for Rule (5) from schedule string (28468A8000100008) with next occurence (12/8/2012 2:10:00 A	M) SMS_RULE_ENGINE	12/7/2012 11:45:04 AM	(1860 (0x744)
Refreshed ScheduleList instance for Rule (6) from schedule string (34468A8000100008) with next occurence (12/8/2012 2:13:00 A	M) SMS_RULE_ENGINE	12/7/2012 11:45:04 AM	(1860 (0x744)
Refreshed ScheduleList instance for Rule (7) from schedule string (3C468A8000100008) with next occurence (12/8/2012 2:15:00 A	M) SMS_RULE_ENGINE	12/7/2012 11:45:04 AM	(1860 (0x744)
Refreshed ScheduleList instance for Rule (8) from schedule string (44468A8000100008) with next occurence (12/8/2012 2:17:00 A	M) SMS_RULE_ENGINE	12/7/2012 11:45:04 AM	1860 (0x744)
Date/Time: 12/7/2012 11:45:01 AM Component: SMS_RULE_ENGINE			
Thread: 1860 (0x744) Source:			
RuleSchedulerThred: Timeout Signalled. RuleEngine needs to run one or more of the Rules			

If you scroll further down in the log you'll see our **Adobe Software Updates** ADR is referenced directly and it also informs us if updates need to be downloaded into our previously created package, in this particular case 5 updates need to be downloaded into our package on the SCCM-A-1 server. Underneath that you'll see the ADR is attempting to download content (with content ID) and whether it was successful or not.

Tool - [E:\Microsoft Configuration Manager Trace Log Tool - [E:\Microsoft Configuration Manager\Logs\ruleengine.log				×
File Tools Window Help			_ 8	×
2 2 4 B A II				
Log Text	Component	Date/Time	Thread	
CRuleHandler: Processing Rule with ID:16777217, Name:ADR: Adobe Software Update.	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	
Evaluating Update Criteria for AutoDeployment Rule 16777217	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	
Evaluating Update Criteria	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	
Rule Criteria is: <updatexml <="" td="" xmlns="" xsd="http://www</td><td>SMS_RULE_ENGINE</td><td>6/4/2013 9:31:45 AM</td><td>2576 (0xA10)</td><td></td></tr><tr><td>Inserting PropertyName:_Company, PropertyValue: Adobe Systems, Inc." xsi="http://www.w3.org/2001/XMLSchema-instance"><td>SMS_RULE_ENGINE</td><td>6/4/2013 9:31:45 AM</td><td>2576 (0xA10)</td><td></td></updatexml>	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	
Query to run is: select CI_ID from dbo.fn_ListlepdateCls(1033) ci~where IsExpired=0~ and (CI_ID in (select CI_ID fr	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	
Rule resulted in a total of 5 updates	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	
Evaluation Resultant XML is: Evaluation Result XML xmlns xsi="http://www.w3.org/2001/XMLSchema-instance" xml	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	
Enforcing Content Download Action	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	
Download Rule Action XML is: <contentactionxml td="" xmlns="" xmlns<="" xsi="http://www.w3.org/2001/XMLSchema-instance"><td>SMS_RULE_ENGINE</td><td>6/4/2013 9:31:45 AM</td><td>2576 (0xA10)</td><td></td></contentactionxml>	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	
Criteria niter Result XML is: < Evaluation Result XML xmlns xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	
5 update(s) need to be downloaded in package "PSD00009" (\\sccm-a-1\source\$\AdobeUpdates)	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	
List of update(s) which match the content rule criteria = {16777312,16777313,16784264,16784265,16784266}	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	
Downloading contents (count = 1) for UpdateID 16777312	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	
List of update content(s) which match the content rule criteria = {16777225}	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	
Contents 16777225 is already present in the package "PSD00009". Skipping download.	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	
Downloading contents (count = 1) for UpdateID 16777313	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	_
List of update content(s) which match the content rule criteria = {16777226}	SMS_RULE_ENGINE	6/4/2013 9:31:45 AM	2576 (0xA10)	-
Date/Time: 6/4/2013 9:50:32 AM Component: SMS_RULE_ENGINE				
Thread: 2584 (0xA18) Source:				
Refreshed ScheduleList instance for Rule (16777217) from schedule string (001D5AC000100008) with next occurence	e (6/5/2013 12:00:00 AM)			-
				Γ

You can also open **Windows Explorer** at this point and browse to the location of your Adobe Updates **package source location**, you'll see that folder filling up with folders which in turn contain files, these are the updates being downloaded.

🕌 AdobeUpdates					_	
G - Computer -	WSUS (W:) • source • AdobeUpdates •	- 🐼	Search AdobeUpdates			2
Organize 👻 Include in library	y ▼ Share with ▼ Burn New folder			8==	-	(?)
🖃 👝 WSUS (W:)	Name *	Date modified	Туре	Size		
d36400e5a5d97(d36400e5a5d97(SCCMContentLib SSMSPKGSIG SMSPKGW\$ SMSSIG\$ SMSSIG\$ Source AdobeUpdates Editional AdobeUpdates	 42cc6726-c3fe-464b-b8ac-38ec00766262 711194cc-4f9c-4f16-9056-c6128633af93 b688263f-59ea-43fe-abf0-d1dfc05dfd22 d85fd0ac-aa3a-48e2-aac9-773e253674df e67852fc-d316-4549-8188-a4704584d823 	5/29/2013 12:02 PM 5/29/2013 12:02 PM 5/29/2013 12:02 PM 5/29/2013 12:02 PM 5/29/2013 12:02 PM	File folder File folder File folder File folder File folder			

After the ADR has downloaded all the updates it'll update the Deployment Package, look for the line **Updating pacakage**

"PSD0000A" now where "PSD0000A" is the package ID of your AdobeUpdates package

Configuration Manager Trace Log Tool - [E:\Microsoft Configuration Manager\Logs\distmgr.log]				×
File Tools Window Help			_ 8	×
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Log Text	Component	Date/Time	Thread	
Adding content 4b55a667-029c-40f6-bcf5-1fd53e1c48ea.	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:28 AM	5668 (0x1624)	
The Package Action is 1, the Update Mask is 32 and UpdateMaskEx is 0.	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
Use drive E for storing the compressed package.	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
Successfully created/updated the package PSD0000A	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
STATMSG: ID=2311 SEV=I LEV=M SOURCE="SMS Server" COMP="SMS_DISTRIBUTION_MANAGER" SYS=SCC	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
The PkgServer action is none and Package update mask is 32	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
Start updating the package on server ["Display=\\SCCM-A-1.school.local\"]MSWNET:["SMS_SITE=PSD"]\\SCCM-A	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
Will wait for 1 threads to end.	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
Thread Handle = 000000000001C2C	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
Attempting to add or update a package on a distribution point.	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	2788 (0xAE4)	
The distribution point is on the siteserver and the package is a content type package. There is nothing to be copied ov	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	2788 (0xAE4)	
STATMSG: ID=2342 SEV=I LEV=M SOURCE="SMS Server" COMP="SMS_DISTRIBUTION_MANAGER" SYS=SCC	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	2788 (0xAE4)	
The current user context will be used for connecting to ["Display=\\SCCM-A-1.school.local\"]MSWNET:["SMS_SITE=	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	2788 (0xAE4)	
IN A LOW REPORT AND A REPORT OF A REPORT O	CHC DISTRIBUTION MANA	E /00 /0010 10 01 00 AM	0700 /0 AE A	

After that it will **Enforce** the **Create Deployment Action** (by creating a new deployment containing the updates it has just downloaded). This can be seen in the **RuleEngine.log** below where it says:

Configuration Manager Trace Log Tool - [E:\Microsoft Configuration Manager\Logs\ruleengine.log]				IX
File Tools Window Help			_ 8	L
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Log Text	Component	Date/Time	Thread	
Enforcing Create Deployment Action	SMS_RULE_ENGINE	5/29/2013 12:02:11 PM	2576 (0xA10)	
Create Deployment Rule Action XML is: <deploymentcreationactionxml 2001="" http:="" td="" www.w3.org="" xmlns="" xmlns<="" xmlschema-instance"="" xsd="http://</td><td>SMS_RULE_ENGINE</td><td>5/29/2013 12:02:11 PM</td><td>2576 (0xA10)</td><td></td></tr><tr><td>Criteria Filter Result XML is: <AutoDeploymentRule xmlns xsi=" xsi="http://www.w3.org/2001/XMLS</td><td>SMS_RULE_ENGINE</td><td>5/29/2013 12:02:11 PM</td><td>2576 (0xA10)</td><td></td></tr><tr><td>Rule XML is: <AutoDeploymentRule xmlns xsi="><td>SMS_RULE_ENGINE</td><td>5/29/2013 12:02:11 PM</td><td>2576 (0xA10)</td><td></td></deploymentcreationactionxml>	SMS_RULE_ENGINE	5/29/2013 12:02:11 PM	2576 (0xA10)	
Parsing Deployment Action XML	SMS_RULE_ENGINE	5/29/2013 12:02:11 PM	2576 (0xA10)	
Parsing Rule XML	SMS_RULE_ENGINE	5/29/2013 12:02:11 PM	2576 (0xA10)	
Could not find element DeploymentId	SMS_RULE_ENGINE	5/29/2013 12:02:11 PM	2576 (0xA10)	
Could not find element UpdateGroupId	SMS_RULE_ENGINE	5/29/2013 12:02:11 PM	2576 (0xA10)	
Could not find element UpdateGroupName	SMS_RULE_ENGINE	5/29/2013 12:02:11 PM	2576 (0xA10)	
Could not find element AlignWithSyncSchedule	SMS_RULE_ENGINE	5/29/2013 12:02:11 PM	2576 (0xA10)	
Invalid boolean value	SMS_RULE_ENGINE	5/29/2013 12:02:11 PM	2576 (0xA10)	
SQL is: select cis.CI_ID from CI_ConfigurationItems cis join vProvisionedCls pci on cis.CI_ID = pci.CI_ID where cis.C	SMS_RULE_ENGINE	5/29/2013 12:02:12 PM	2576 (0xA10)	
2 of 2 updates are downloaded and will be added to the Deployment.	SMS_RULE_ENGINE	5/29/2013 12:02:12 PM	2576 (0xA10)	
SQL is: select CI_UniqueID from CI_ConfigurationItems where CI_ID in (16784100, 16784128) order by CI_ID	SMS_RULE_ENGINE	5/29/2013 12:02:12 PM	2576 (0xA10)	
We need to create a new UpdateGroup/Deployment	SMS_RULE_ENGINE	5/29/2013 12:02:12 PM	2576 (0xA10)	
Associated Update Group: Scopeld_7AC81308-9041-4FB4-943C-2F91261F7E06/AuthList_96bdcb77-9184-45ad-8	SMS_RULE_ENGINE	5/29/2013 12:02:13 PM	2576 (0xA10)	
Added CI with CI_UniqueID=ebeffe6c-4d3e-4073-8163-5980d8d44ce8, CI_ID=16784100 to the deployment	SMS_RULE_ENGINE	5/29/2013 12:02:13 PM	2576 (0xA10)	
Added CI with CI_UniqueID=b2f7cdf5-aa11-4db5-ba1d-d294b261f1c6, CI_ID=16784128 to the deployment	SMS_RULE_ENGINE	5/29/2013 12:02:13 PM	2576 (0xA10)	-1
Date/Time: 6/4/2013 9:50:32 AM Component: SMS RULE ENGINE				
Thread: 2584 (0xA18) Source:				
Refreshed ScheduleList instance for Rule (16777217) from schedule string (001D5AC000100008) with next occurence	(6/5/2013 12:00:00 AM)			

This brand new **deployment** can now be found in the **Monitoring** Workspace by clicking on **Deployments.**



Finally after creating the new deployment the ADR creates an alert and updates the success information of the rule.

Monitor our Deployment Package getting distributed to our Distribution Points

Now that the ADR has run and our **Deployment Package** has been updated we can check the **status** of the package. In the **Software Library** workspace, select **Software Updates** and expand **Deployment Packages**, select our **Adobe Updates** deployment Package.

Software Library	Deploy	ment Packages 3 item	s					
4 💣 Overview	Search						🗙 🔎 Search	Add Criteria 🔻
Application Management	Icon	Name		Package ID				
 Software Updates 		Adobe Updates		PSD00009				
🐻 All Software Updates		EndPoint Protection D	efinition Upd	PSD0000A				
Software Update Groups		Windows 7 Updstate	- Critical, Sec	PSD0000B				
Deployment Packages								
Automatic Deployment Rules								
Operating Systems								
	Adol Packa	De Updates			Distribution Point Status		Related Objects	~
	Pac Sou Las	kage ID: Irce Date: t Refresh Time:	PSD00009 5/29/2013 5/29/2013	12:02 PM 12:02 PM	1 Targeted (Last Update:	 Success: 1 In Progress: 0 Failed: 0 Unknown: 0 5/29/2013 12:02 PM) 	🐻 Content Status	
Assets and Compliance								

Straight away you can see that the status is good as it is green (successful). However let's dig deeper and click on **Content Status** in the right corner, then select our package in question, **Adobe Updates**.

Once again we can see it is successful, however if you have **multiple distribution points** you may want to know more information. Click on **View Status**.

Monitoring <	Content	Status 10 items								
4 🔳 Overview	Search							🗙 💭 Sear	ch Add Crit	teria 🔻
Alerts	Icon	Software	*	Туре	Targeted	Size (MB)	Compliance %	Date Created	Package ID	So _
🐊 Queries		Adobe Reader X		Application	1	150.56	100.0	5/29/2013 9:16 AM	PSD00008	1
Reporting		Adobe Updates		Software Update Package	1	72.36	100.0	5/29/2013 12:02 PM	PSD00009	2 ≡
Site Hierarchy		Boot image (x64)		Boot Image	0	149.64		5/7/2013 9:50 AM	PSD00004	2
 System Status 	2	Boot image (x86)		Boot Image	0	128.14		5/7/2013 9:45 AM	PSD00001	2
bite Status	1	Configuration Manager	Client Package	Package	1	158.13	100.0	5/7/2013 9:45 AM	PSD00002	1
Gomponent Status		Configuration Manager	Client Upgrade Package	Package	1	1.01	100.0	5/7/2013 9:45 AM	PSD00003	1 .
Conflicting Records	٠									•
🔢 Status Message Queries	Adob	e Updates								~
 Deployments 										
Adobe Reader X Status to All Desktop an	Gener	al			Completio	n Statistics				
ADR: Adobe Software Update Status to A	Soft	ware:	Adobe Updates					= :	Success: 1	
ADR: Endpoing Protection Status to All D	Тур	e:	Software Update Package					_	n Progress:0	
ADR: Windows 7 Updates - Critical, Secur	Date	e Created: rane ID:	5/29/2013 12:02 PM						Jnknown: 0	
SCUP 2011 Certificate (Install Root Cert) 5	, act	age ion	1300005			1 Torgete	d (Lact Lindato: 5	(20/2012 12:02 PM) View	Chature	
Client Status						1 Targete	u (Lasc Opuace, 5	729/2013 12.02 PM) <u>Viev</u>	Status	
🕞 Database Replication										
A 🛄 Distribution Status										
ssets and Compliance										
Software Library										
Monitoring										

This shows us **4 tabs** where we can review the success or failure of our deployment package getting to our distribution points.

Monitoring	*	Content S	tatus			Ø Refresh
Alerts						
Queries	C	Content Distribution: Adobe	Updates			
Reporting		• Success • In Progre	ess 🖲 Error 🔍 Unknov	vn		
🙀 Site Hierarchy						
🔺 🚞 System Status		Status	database and a	Assets	Status Type	
🌇 Site Status		Content was distributed to (distribution point	1	Success	
崎 Component Status	Ξ					
Conflicting Records						
🚯 Status Message Queries						
 Deployments 						
📄 Adobe Reader X Status to All Desktop an						
ADR: Adobe Software Update Status to A						
ADR: Endpoing Protection Status to All D						
ADR: Windows 7 Updates - Critical, Secur		Asset Details				
SCUP 2011 Certificate (Install Root Cert) 5		Filter				0
Client Status		Davica	Lact Statue Time	Group Targeted	Description	_
🕞 Database Replication		\\SCCM-A-1.school.local	5/29/2013 12:02 PM	No	Distribution Manager successfully distributed package "PSD00009" t	
 Distribution Status 	-					
Assets and Compliance	-					
👘 Software Library						
Monitoring						

In addition to using the Configuration Manager console to get the status of our Deployment Package (which contains our windows updates), you can review the **distrmgr.log** file on CAS to review when the Deployment Package gets the updates added to it and then when it is distributed to the distribution point(s).

Open the **distrmgr.log** file and look for the line **Found package properties updated information for package 'PSD0000A'** which is our Deployment Package, change the Package ID to suit your own Deployment Package id.

Configuration Manager Trace Log Tool - [E:\Microsoft Configuration Manager\Logs\distmgr.log]			_ 0	×
File Tools Window Help			_ 8	×
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Log Text	Component	Date/Time	Thread	
Adding content 4b55a667-029c-40f6-bcf5-1fd53e1c48ea.	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:28 AM	5668 (0x1624)	
The Package Action is 1, the Update Mask is 32 and UpdateMaskEx is 0.	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
Use drive E for storing the compressed package.	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
Successfully created/updated the package PSD0000A	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
STATMSG: ID=2311 SEV=I LEV=M SOURCE="SMS Server" COMP="SMS_DISTRIBUTION_MANAGER" SYS=SCC	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
The PkgServer action is none and Package update mask is 32	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
Start updating the package on server ["Display=\\SCCM-A-1.school.local\"]MSWNET:["SMS_SITE=PSD"]\\SCCM-A	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
Will wait for 1 threads to end.	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
Thread Handle = 000000000001C2C	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	5668 (0x1624)	
Attempting to add or update a package on a distribution point.	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	2788 (0xAE4)	
The distribution point is on the siteserver and the package is a content type package. There is nothing to be copied ov	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	2788 (0xAE4)	
STATMSG: ID=2342 SEV=I LEV=M SOURCE="SMS Server" COMP="SMS_DISTRIBUTION_MANAGER" SYS=SCC	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	2788 (0xAE4)	
The current user context will be used for connecting to ["Display=\\SCCM-A-1.school.local\"]MSWNET:["SMS_SITE=	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	2788 (0xAE4)	
No network connection is needed to ["Display=\\SCCM-A-1.school.local\"]MSWNET:["SMS_SITE=PSD"]\\SCCM-A	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	2788 (0xAE4)	
Signature share exists on distribution point path \\SCCM-A-1.school.local\SMSSIG\$	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:29 AM	2788 (0xAE4)	
Ignoring drive C:\. File C:\NO_SMS_ON_DRIVE.SMS exists.	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:30 AM	2788 (0xAE4)	
Ignoring drive D:\. File D:\NO_SMS_ON_DRIVE.SMS exists.	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:30 AM	2788 (0xAE4)	
user(NT AUTHORITY\SYSTEM) runing application(SMS_DISTRIBUTION_MANAGER) from machine (SCCM-A-1.sch	SMS_DISTRIBUTION_MANA	5/30/2013 12:01:30 AM	2788 (0xAE4)	-
Date/Time: 6/4/2013 9:51:00 AM Component: SMS DISTRIBUTION MANAGER				
Thread: 4140 (0x102C) Source:				
Sleeping for 60 minutes before content cleanup task starts.				-

Further down the log you can see that the source for the package has changed or the package source needs to be refreshed. At this point it updates the source version (to 4) and then adds the changed content (new updates)

Configuration Manager Trace Log Tool - [E:\Microsoft Configuration Manager\Logs\distmgr.log]			_ 🗆	×
File Tools Window Help			_ 8	×
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Log Text	Comp	Date/Time	Thread	
STATMSG: ID=2376 SEV=I LEV=M SOURCE="SMS Server" COMP="SMS_DISTRIBUTION_MANAGER" SYS=SCCM-A-1.school.local SI.	. SMS_DIS	6/4/2013 10:31:52 AM	4464 (0x1170)	
Snapshot processing content with ID 16782825	SMS_DIS	6/4/2013 10:31:52 AM	4464 (0x1170)	
Skipping content 5bc2656f-7a20-459a-ad5d-0ca3023ab9a1 since snapshot for this content already exists	SMS_DIS	6/4/2013 10:31:52 AM	4464 (0x1170)	
STATMSG: ID=2376 SEV=I LEV=M SOURCE="SMS Server" COMP="SMS_DISTRIBUTION_MANAGER" SYS=SCCM-A-1.school.local SI.	. SMS_DIS	6/4/2013 10:31:52 AM	4464 (0x1170)	
The size of package PSD0000A is 39038 KBytes	SMS_DIS	6/4/2013 10:31:52 AM	4464 (0x1170)	
The source for package PSD0000A has changed or the package source needs to be refreshed	SMS_DIS	6/4/2013 10:31:53 AM	4464 (0x1170)	
Adding these contents to the package PSD0000A version 4.	SMS_DIS	6/4/2013 10:31:53 AM	4464 (0x1170)	
Adding content f81c439b-1267-40ff-baee-7/607/d7e8c5.	SMS_DIS	6/4/2013 10:31:53 AM	4464 (0x1170)	
Adding content f81b0fac-bda5-49bc-b1ac-6ff348761af4.	SMS_DIS	6/4/2013 10:31:53 AM	4464 (0x1170)	
Adding content aa5b5b52-1f43-4cfa-af1a-1a6607cd2c7d.	SMS_DIS	6/4/2013 10:31:53 AM	4464 (0x1170)	
Adding content e6869d50-da1b-4c54-b451-b3722475abde.	SMS_DIS	6/4/2013 10:31:53 AM	4464 (0x1170)	
Adding content f8ee691a-7909-431c-b1e8f610a9144189.	SMS_DIS	6/4/2013 10:31:53 AM	4464 (0x1170)	
Adding content 4636203a-5a21-4527-ad16-103bb437484.	SMS_DIS	6/4/2013 10:31:53 AM	4464 (0x1170)	
Adding content f0fe1f5a-8e65-4471-8ed2-e03f12f81965.	SMS_DIS	6/4/2013 10:31:53 AM	4464 (0x1170)	
Adding content 037be90c-6bd5-4230-aae5-2fc9ad38f6a6.	SMS_DIS	6/4/2013 10:31:53 AM	4464 (0x1170)	
Adding content 84cd737d-7a4c-4507-8d15-2056378e3912.	SMS_DIS	6/4/2013 10:31:53 AM	4464 (0x1170)	
Adding content efac18bc-3f56-4529-a006-1bb8f24a0d53.	SMS_DIS	6/4/2013 10:31:53 AM	4464 (0x1170)	
Adding content 3c4175f3-0e0b-430d-9cbb-8c7390b7e661.	SMS_DIS	6/4/2013 10:31:53 AM	4464 (0x1170)	-
Date/Time: 6/4/2013 10:31:56 AM Component: SMS_DISTRIBUTION_MANAGER				
Thread: 4464 (0x1170) Source:				
Thread Handle = 00000000001B28				

Monitor the Windows update process on our clients

Once the computer has received policy you'll see the following notification telling you that software changes are required, Clicking on that will give you more details of the deployment



If you click on **View Details** you'll get even more details of what this deployment actually is.. and it is of course our Adobe Updates,

Software Center					
					Public School
Installatio	n Status 🛛 I	nstalleo	d Software O	ptions	
SHOW Updates		-	Show optional so	ftware SEAF	RCH P
				Find add Catalog	ditional applications from the Application
NAME		ТҮРЕ	PUBLISHER	AVAILABL.	STATUS
🐼 Reader 10.0.1		Update	Adobe Systems, Inc.	5/30/2013	Scheduled to install after 6/6/2013 12:02
Reader 10	0.0.1				*
OVERVIEW			REQUIREMENTS		DESCRIPTION
Status:	Scheduled to insta 6/6/2013 12:02:00	III after PM	Restart required:	Might be required	The release addresses security vulnerabilities.
Help document:	None				
Bulletin ID:	APSB11-03				
Article ID:	APSB11-03				
INSTALL ALL REC	UIRED				SCHEDULE INSTALL

Click on **Install all required** to see what happens when the deadline is met.

The updates are downloaded and installed... if there's a **restart required** you'll be informed of that, you can click on **restart** to speed up the process.

If you want to see the process above via log files you can review the C:\Windows\CCM\Logs\WUAhandler.log on the client to see when it scans against our SUP server to see what's available, and it can see that updates are missing, and the updates are installed, you can also see the restart information per update listed, this is the same info that was reflected in the Software Center

Configuration Manager Trace Log Tool - [C:\Windows\CCM\Logs\WUAHandler.log]				x
👔 File Tools Window Help			- 8	×
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Log Text	Component	Date/Time	Thread	
Async searching of updates using WUAgent started.	WUAHandler	6/4/2013 12:11:36 PM	4044 (0xFCC)	*
Async searching completed.	WUAHandler	6/4/2013 12:11:40 PM	3800 (0xED8)	
Successfully completed scan.	WUAHandler	6/4/2013 12:11:41 PM	2072 (0x818)	
Going to search using WSUS update source.	WUAHandler	6/4/2013 12:11:58 PM	2344 (0x928)	
Synchronous searching of all updates started	WUAHandler	6/4/2013 12:11:58 PM	2344 (0x928)	
Successfully completed synchronous searching of updates.	WUAHandler	6/4/2013 12:12:02 PM	2344 (0x928)	
1. Update: 42cc6726-c3fe-464b-b8ac-38ec00766262, 1 BundledUpdates: 0	WUAHandler	6/4/2013 12:12:02 PM	2344 (0x928)	
1. Update (Missing): Reader 10.0.1 (42cc6726-c3fe-464b-b8ac-38ec00766262, 1)	WUAHandler	6/4/2013 12:12:02 PM	2344 (0x928)	
Async installation of updates started.	WUAHandler	6/4/2013 12:12:03 PM	2344 (0x928)	
Update 1 (42cc6726-c3fe-464b-b8ac-38ec00766262) finished installing (0x00000000), Reboot Required? No	WUAHandler	6/4/2013 12:13:28 PM	2548 (0x9F4)	
Async install completed.	WUAHandler	6/4/2013 12:13:28 PM	3528 (0xDC8)	
Installation of updates completed.	WUAHandler	6/4/2013 12:13:28 PM	2072 (0x818)	
Scan results will include superseded updates only when they are superseded by service packs and definition update	es. WUAHandler	6/4/2013 12:13:28 PM	2516 (0x9D4)	
Search Criteria is ((DeploymentAction=* AND Type='Software' AND CategoryIDs contains 'E1D507BE-497C-D8FD-	61 WUAHandler	6/4/2013 12:13:28 PM	2516 (0x9D4)	
Async searching of updates using WUAgent started.	WUAHandler	6/4/2013 12:13:28 PM	2516 (0x9D4)	
Async searching completed.	WUAHandler	6/4/2013 12:13:31 PM	2052 (0x804)	E
Successfully completed scan.	WUAHandler	6/4/2013 12:13:31 PM	3988 (0xF94)	-
Date/Time: 6/4/2013 12:13:31 PM Component: WUAHandler				
Thread: 3988 (0xF94) Source: cwuahandler.cpp:3378				
Successfully completed scan.				

In addition to the above log you can review the C:\Windows\windowsupdate.log .

It starts the **search for updates** then adds some updates to the search result. Then **downloads** applicable updates to the cache, and then it **installs the updates**.. before telling us that it **succeeded installing those updates**...

👔 Configuration Manager Trace Log Tool - [C:\Windows\WindowsUpdate.log]
👔 File Tools Window Help
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Log Text
2013-06-0412:12:02:555 972a24DnldMgr DnldMgr-Copy update to cache [UpdateId = (42CC6726-C3FE-464B-88AC-38EC00766262).1]
2013-06-0412:12:02:575 972a24DnldMgrAsking handler to generate non-range requests.
2013-06-0412:12:02:895 972a24MiscValidating signature for C:Windows\SoftwareDistribution\Download\Oace5085d9459e3aaa806baf6eef8525_ctc\AdbeRdrUpd1001_Tier1.cab:
2013-06-0412:12:02:988 972a24Misc Microsoft signed: No
2013-06-0412:12:03:003 972a24MiscTrusted Publisher: Yes
2013-06-0412:12:03:003 972a24DnldMgrAsking handler to generate non-range requests.
2013-06-0412:12:03:003 972a24HandlerMSP download: file AdbeRdrUpd1001_Tier1.cab already exists in sandbox directory (C:\Windows\SoftwareDistribution\Download\0ace5085d9459e3
2013-06-0412:12:03:0542204928COMAPI
2013-06-0412:12:03:0542204928COMAPI START COMAPI: Install [ClientId = CcmExec]
2013-06-0412:12:03:0542204928COMAPI
2013-06-0412:12:03:0542204928COMAPI - Allow source prompts: No; Forced: No; Force quiet: Yes
2013-06-0412:12:03:0542204928COMAPI - Updates in request: 1
2013-06-0412:12:03:0542204928COMAPI - ServiceID = {3DA21691-E39D-4DA6-8A4B-B43877BCB1B7} Managed
2013-06-0412:12:03:0562204928COMAPI - Updates to install = 1
2013-06-0412:12:03:0562204928COMAPI<<- SUBMITTED COMAPI: Install [ClientId = CcmExec]
2013-06-0412:12:03:059 972cc0Agent
2013-06-0412:12:03:059 972cc0Agent** START ** Agent: Installing updates [Callerid = ComExec]
Date/Time: Component:
Thread: Source:
2013-06-04 12:12:02:555 972 a24 DnidMgr ********* DnidMgr: Copy update to cache [UpdateId = {42CC6726-C3FE-464B-88AC-38EC00766262}.1]

File Tools Window Help
Image: Section 2013/06-0412-12-14-045120037cHandler C-\Windows\SoftwareDistribution\Download\Oace5085d9459e3aaa806baf6eef8525\mg\AdbeRdrUpd1001_Tier1.MSP 201306-0412-12-14-045120037cHandler MSP final command line: ALLUSERS+1 REBOOT=REALLYSUPPRESS MSIRESTARTMANAGERCONTROL=Disable
Log Text 2013-06-0412:12:14:045120037cHandler C:\Windows\SoftwareDistribution\Download\Dace508503459s3aa806barf6er8525\mg\AdseRdrUpd1001_Tier1.MSP 2013-06-0412:12:14:045120037cHandlerMSP final command line: ALLUSERS-1 REBOT-REALLYSUPPRESS MSIRESTARTMANAGERCONTROL-Disable 2013-06-0412:12:14:0451220337cHandler/MSP final command line: ALLUSERS-1 REBOT-REALLYSUPPRESS MSIRESTARTMANAGERCONTROL-Disable 2013-06-0412:12:24:33312:037cHandler/MSP finaler/MSP
2013-06-0412-12:14:045120037cHandler C-Windowa SoftwareDistribution:Download Oace505645943aaa906barfSeef8525/mgVdbeAfdubg1001_Tier1.MSP A2013-06-0412:12:14:045120037cHandlerMSP final command line: ALLUSERS=1 REBOT=REALLYSUPPRESS MSIRESTARTMANAGERCONTROL=Disable 2013-06-0412:12:32:3312037cHandler: MSI transaction completed MSI (bx0000000, Source: No, Rebot: 0 2013-06-0412:12:33312037cHandler: MSI transaction completed MSI (bx0000000, Source: No, Rebot: 0 2013-06-0412:12:33312037cHandler: MSI transaction completed MSI (bx0000000, Source: No, Rebot: 0 2013-06-0412:12:33312037cHandler: MSI transaction completed MSI (bx0000000, Source: No, Rebot: 0
2013-06-0412-13.28:358120037cHandler::::::::::::::::::::::::::::::::::::
2013-06-0412:13:28:4792204750COMAPI - Install call complete (succeeded = 1, succeeded with errors = 0, failed = 0, unaccounted = 0)
2013-06-0412:13:28:4792204750COMAPI - Reboot required = No
2013/06-0412:13:28:4792204750COMAPI
2013/06-0412:13:28:4/92204/3000MPI- END - COMAPI: install [Clientid = ComExec]
2013/06-0412:13:28:47/3220470000MRF1
2013/06-0412, 15.26.300 37/2060A0 mggering Online detection (non-interactive)
Date/Time: Component:
Thread: Source:
2013-06-04 12:13:28:479 2204 750 COMAPI - Install call complete (succeeded = 1, succeeded with errors = 0, failed = 0, unaccounted = 0)