Building, Deploying, and Updating an Image on HP Commercial PCs



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Terms and definitions

Term	Definition
SCCM	Microsoft® System Center Configuration Manager
WSUS	Windows® Server Update Services
SCUP	Microsoft System Center Updates Publisher
Windows ADK	Windows Assessment and Deployment Kit
Windows AlK	Windows Automated Installation Kit
Windows PE	Window Pre-Installation Environment
HP MIK	HP Manageability Integration Kit for SCCM
OSD	Operating System Deployment
HP SDM	HP SoftPaq Download Manager
HP SSM	HP System Software Manager
HP BCU	HP BIOS Configuration Utility
OS	Operating system
PXE	Pre-boot Execution Environment
SoftPaq	Format used to deliver software to the end-users. It is self-extracting and (optionally) auto-executing.

Overview

The purpose of this document is to detail the specific steps required to build a common HP image across our HP Elite and Pro series products using Microsoft System Center Configuration Manager (SCCM) 2012 R2 or higher and to provide common methods for deploying HP updates. This document assumes that you have a reasonably high level of familiarity with the standard SCCM deployment process.

Requirements

How you structure or configure SCCM is a matter of preference, and the criteria differs from organization to organization. This document does not include instructions on how to install and configure SCCM. HP recommends installing and configuring SCCM before integrating HP Manageability Integration Kit (HP MIK) and other HP tools.

Note

SCCM and Windows Deployment Services (WDS) must be properly configured for use with both the operating system deployment (OSD) and Preboot Execution Environment (PXE) function. For more information of Microsoft System Center Configuration Manager, go to <u>http://www.microsoft.com/systemcenter</u>.

Operating system deployment

Bare metal deployment with driver pack via HP MIKImporting HP Driver Packs into SCCM

- 1. If HP MIK is not installed, download and install it. See Appendix A: Installing the HP MIK for SCCM 2012 R2 or higher.
- 2. In the Configuration Manager console, select **Software Library**.
- 3. In the Software Library workspace, expand **Overview**, and then click **Operating Systems**.
- 4. Right-click **Driver Packages** and select **Download and Import HP Client Driver Packs**.

Note

If you want to create a custom driver pack, select **Create and Import HP Client Driver Pack**. Browse to select an operating system and HP product(s), and choose specific driver(s) to import.

If you have previously downloaded this driver pack, select **Import Downloaded HP Client Driver Pack**. Browse to location that you want to download the driver pack to, and then follow the on-screen instruction to complete the importation of the driver pack.

So	tware Library		<				
4	🗇 Overview				Software Library		
	Application Management				2		
	🛯 🧮 Software Updates						
	🗟 All Software Updates				Navigation Index		
	<u>ञ</u> Software Update Groups						
	🛐 Deployment Packages				Application Management: Manage app		
	📑 Automatic Deployment Ru	les			hierarchy.		
	 Operating Systems 				Operating Systems: Manage drivers, or		
	Drivers						
	📑 Driver Packages				Office 365 Client Management: Monite		
	🜉 Operating System Images	1	Create Drive	er Pack	age		
	🌉 Operating System Upgrade	•	Import Driv	er Pack	age		
	👼 Boot Images	Ø	Create and	Import	HP Client Driver Pack		
	🛐 Task Sequences	Ø	Download and Import HP Client Driver Packs				
	📼 Virtual Hard Disks	60	Import Dow	nloade	ed HP Client Driver Pack		
	📔 Windows 10 Servicing						
	🗧 🧮 Office 365 Client Manageme	Ŷ	Feedback				
			Folder		•		

- 5. Select an operating system from the **Operating system** list. The **Available products** field displays the products that support driver packs.
- 6. Optionally, enter keywords into the **HP product name** field and press **Enter** to filter the list of available driver packs.
- 7. Select the driver packs for the targeted operating system deployment, and then click the right-arrow button to add the products to the **Selected products** list. The driver packs associated with the selected products are displayed in the **Available driver packs** list.
- 8. Optionally, select distribution points to assign the imported driver packs to specific destinations. However, cloud distribution points are not supported.
- 9. Optionally, change the default location for Configuration Manager to save the drivers and driver package. Be sure that the specified location has sufficient rights to be accessed by all necessary user accounts. The location is saved automatically, per user, after a successful importation.
- 10. If the driver pack download and importation process much stop when an error is encountered, clear the **Continue on errors** checkbox. By default, this box is checked. If multiple driver packs are selected, the process continues to the next selected driver pack if the download and importation of the current driver pack fails.

11. Select **Download and Import** to start the driver pack download and importatation process.

Note

Only use the **Reset Form** button to clear all current selections.

Ø	Downloa	ad and	Import HP C	lient Driv	er Packs			x
Select an operating	system and HP product(s).							
Operating system:	Microsoft Windows 7 Professional 64	Edition	~					
HP product name:			2	×				
Available products:			Sel	lected produ	icts:			
Available products: Selected products: HP BiteBook 840 G1 Notebook PC HP Compag Elite 8300 Alim-One PC HP BiteBook 8400 Xotebook PC HP Compag Elite 8300 Alim-One PC HP BiteBook 8400 Mole Workstation HP BiteBook 8470m Notebook PC HP BiteBook 830 Alim One book PC HP Compag Elite 8300 Alim One PC HP BiteBook 8470m Notebook PC HP BiteBook 850 G1 Notebook PC HP BiteBook 850 G2 Notebook PC K HP BiteBook 850 G2 Notebook PC K HP BiteBook 8550 G1 Notebook PC K								
Available driver pack	KS:							
Name		Version	Released Date	Size (MB)	Driver Pack	ID View R	elease Notes	Remove
HP Notebook xx70 HP Compag Elite 8	/xx75 Windows 7 x64 Driver Pack 300 PC Windows 7 x64 Driver Pack	1.00.A.1 1.01.A.1	2012-09-17 2013-04-03	798.3 547.3	sp58839 sp61385			
Calact the content	destination and estructure aboves							
Select the content	destination and network shares.							
Distribution points: SCCM2012.HPEXAMPLE.NET								
Drivers: [\\SCCM2012.HPexample.net\SMS_TST\OSD\Lib\Drivers\HP\Client Browse								
Driver packages: \\SCCM2012.HPexample.net\SMS_TST\OSD\Lib\DriverPackages\HP\Client Browse								
Error handling:	Continue on errors							
				Reset	Form	Download	and Import	Close

12. During the download and importation process, a dialog displays the current operation and progress. This process downloads the selected driver packs and then imports them into Configuration Manager. If one or more selected driver packs already exists in Configuration Manager, the process prompts the user to skip or overwrite the existing driver packs.

After the process is complete, a summary of the import status of each driver pack is displayed. Click on the summary or detailed log files for more information about the status of the driver pack importation.

Note

These logs can be found on SCCM server at

c:\Users\administrator.domain\appData\Local\Temp\hpclient\.

Ø	Import Driver Pack Status						
Summary	Successfully downloaded and imported 2 of 2 driver pack(s).						
	Each driver pack import status is listed below. Please see the <u>summary</u> and <u>detailed</u> log files for more information.						
Details	Status Title Image: HP Compaq Elite 8300 PC Windows 7 x64 Driver Pack [1.01.A.1] HP Notebook xx70/xx75 Windows 7 x64 Driver Pack [1.00.A.1]						
	Close						

13. The imported driver packs are available in **Driver Packages** > **HP Client Driver Packages**. The drivers are imported into the base driver folders and then given categories that match the driver package name.

Before the imported driver packs can be used in a task sequence, they need to be pushed out to the distribution points. If no distribution points were selected in the download and import dialog or if additional distribution points are needed, select each imported driver pack, select **Distribute Content**, and then follow the on-screen instructions to push the driver packs to the desired distribution points.

Note

This process requires a continuous Internet connection to ftp.hp.com. If the driver pack information cannot be retrieved from ftp.hp.com on the device by the Configuration Manager console, open a browser session to verify your Internet connection, and then try to complete the process again.

If there is no Internet connection to ftp.hp.com on the device with the Configuration Manager console, obtain the HP driver packs via one of the methods in the section Importing HP Driver Pack without using HP MIK, and use the **Import Downloaded Driver Pack** menu item instead.

Because you tried to import the driver and appended a new category to it, you might have the duplicate driver entries in the driver library.

Importing an HP WinPE Driver Pack and creating boot images

- 1. Download the HP WinPE driver pack and save it on a shared location.
- 2. In the Configuration Manager console, select **Software Library**.
- 3. In the Software Library workspace, expand Overview, and then click Operating Systems.
- 4. Right-click Boot Images, and then select Create HP Client Boot Image.

Note

Each version of Microsoft System Center 2012 Configuration Manager supports a specific version of Windows AlK or Windows ADK. You can service, or customize, boot images from a Configuration Manager console when they are based on a Windows PE version from the supported version of Windows AlK or Windows ADK. Because of this limitation, HP CIK Create Boot Image provides limited support.

Configuration Manager uses Windows ADK, particular DISM.exe, to inject drivers to a boot image. HP MIK leverages this DISM method to inject specific HP NIC, Storage, and USB 3.0 drivers contained in the HP WinPE Driver Pack into the base boot image. Be sure that you are fully aware that if you use your customized image as a base boot image; the resulting HP boot image has all modifications and customizations of your base boot image.

	Soperating System Upgrade Packages							
	🗟 Boot Images	2	Add Boot Image					
	G Virtual Hard Disks	Ø	Create HP Client Boot Image					
ŀ	📔 Windows 10 Servicin	Ø	Feedback					
Þ	Cffice 365 Client Ma		Folder •					

- 5. In **Create HP Client Boot Image(s)**, click **Browse** to select the downloaded HP WinPE driver pack SoftPaq targeted for importation.
- 6. Optionally, change the default locations for Configuration Manager to save the drivers, the driver package, and the boot images. Be sure that the specified locations have sufficient rights to be accessed by all necessary user accounts.
- 7. To create boot images with drivers from the selected HP WinPE driver pack, select the base boot images to use, and then select **Create**.

8. Optionally, select distribution points to assign the boot images to a specific destination. However, cloud distribution points are not supported.

1	Create HP Client Boot Image(s)	
Specify an HP client WinPE driv	ver pack and base boot image(s) to create HP client boot images.	
HP client WinPE driver pack:	C:\SCCMShare\WinPE 5.0 SP70716.4\SP70716.exe	Browse
Driver pack title:	HP Client WinPE 5.0 x86 and x64 Driver Pack [1.02.A.1]	
	Boot image (x86)	
	Boot image (x64)	
lase boot image(s):		
Select the content destination a	and network shares.	
Select the content destination a	and network shares.	
Select the content destination a	and network shares.	
elect the content destination a Nistribution points: Nivers:	and network shares. SCCM_2012R2 EXAMPLE NET (\SCCM_2012R2 example net\SMS_TST\0SD\Lb\Drivers\HP\Client	Browse
Select the content destination a Natribution points: Nivers: Niver packages:	and network shares. SCCM_2012R2 EXAMPLE NET \\SCCM_2012R2 example net\SMS_TST\OSD\Lb\Drivers\HP\Client \\SCCM_2012R2 example net\SMS_TST\OSD\Lb\DriverPackages\HP\Client	Browse
Select the content destination a Jastribution points: Jrivers: Jriver packages: loot image(s):	and network shares. SCCM_2012R2 EXAMPLE NET \\SCCM_2012R2 example net\SMS_TST\OSD\Lb\Drivers\HP\Client \\SCCM_2012R2 example net\SMS_TST\OSD\Lb\DriverPackages\HP\Client \\SCCM_2012R2 example net\SMS_TST\OSD\Lb\BootImages\HP\Client	Browse Browse
Select the content destination a Distribution points: Drivers: Driver packages: Boot image(s):	and network shares. SCCM_2012R2 EXAMPLE NET \\SCCM_2012R2 example net\SMS_TST\0SD\Lb\Drivers\HP\Client \\SCCM_2012R2 example net\SMS_TST\0SD\Lb\DriverPackages\HP\Client \\SCCM_2012R2 example net\SMS_TST\0SD\Lb\BootImages\HP\Client	Browse Browse Browse

Note

If you attempt to import an unsupported WinPE driver pack, HP MIK does not display any base boot images based on the Windows ADK version installing on the server.

Ø	Create HP Client Boot Image(s)	×
Specify an HP client WinPE dri	ver pack and base boot image(s) to create HP client boot images.	
HP client WinPE driver pack:	C:\SCCMshare\DriverPacks\WinPE5.0\ep70716.exe	Browse
Driver pack title:	HP Client WinPE 5.0 x86 and x64 Driver Pack [1.02.A.1]	
Base boot image(s):		
Select the content destination a	nd network shares.	

For more details on operating system versions supported by HP MIK, WinPE, ConfigMgr, and Windows ADK, see the white paper *Microsoft ConfigMrg and HP CIK - Supported Combinations & Features*.

- 9. Optionally, change the default location for Configuration Manager to save the drivers and driver package.
- 10. Depending on the architecture of the base image, x86 and/or x64 images are created. HP WinPE driver packs contain drivers for both 32- and 64-bit boot images.

After the process is complete, the new boot images are available in **Boot Images > HP Client Boot Images**.

oftware Library	< HP Cli	HP Client Boot Images 2 items							
Overview Goverview Goverview Software Updates Operating Systems Drivers Univers HP Client Driver Packages HP Client Driver Packages Operating System Images	icon Res Res	Name HP Client Boot Image (x64) HP Client Boot Image (x86)	Version 6.3.9600.16384 6.3.9600.16384	Comment with HP Client WinPE 5.0 x86 and x64 Driver Pack 1.02, with HP Client WinPE 5.0 x86 and x64 Driver Pack 1.02,					
Beot Images HP Client Boot Images HP Client Boot Images Task Sequences Virtual Hard Disks									

Importing HP Driver Pack without using HP MIK

Downloading HP Driver Packs

There are several ways to download HP Driver Packs without using HP MIK:

- Via HP SDM. See Appendix B: Using HP SDM.
- Via HP Client Management Solutions.

To download HP Driver Packs via HP Client Management Solutions:

- 1. Go to http://www.hp.com/go/clientmanagement.
- 2. Select HP CMS Download Library.
- 3. Under **HP Drive Pack Matrix**, select the link to the **32-bit** or **64-bit** driver packs, depending on the target operating systems.
- 4. Locate the appropriate product types, model names, and operating systems of the target devices, and then download the appropriate driver packs for the target operating systems.

Creating and importing HP Driver Packs

HP Driver Packs are self-extracting executable files that generally contain all or most of the drivers need for a bare-metal deployment. You need to extract these self-extracting executables before creating and importing them.

Creating a driver package

- 1. In the Configuration Manager console, click **Software Library**.
- 2. In the Software Library workspace, expand **Overview**, and then click **Operating Systems**.
- 3. To start the New Driver Pack Wizard, right-click Driver Packages, and then click Create Driver Package.

1	Operating Systems		
	Drivers		
*	🔛 Driver Packages		
	System Images	1	Create Driver Package
	System Installers	3	Import Driver Package

- 4. In the **Name** field, enter a descriptive name for the driver package.
- 5. In the **Description** box, enter an optional description for the driver package that provides information about the contents or the purpose of the driver package.
- 6. In the **Driver packages Source** field, enter the path for an empty source folder for the driver packages in Universal Naming Convention (UNC) format.

– or –

Click **Browse** to open the Select Folder dialog, and then browse to the folder that you want to use as the source for this driver package. Each driver package must use a unique folder.

Note

The new driver package does not contain any drivers. The next step is to add drivers to the package.

Importing device drivers into the driver packages

- 1. In the Configuration Manager console, click Software Library.
- 2. In the Software Library workspace, expand Overview, and then click Operating Systems.
- 3. Right-click **Drivers**, and then click **Import Driver**.

+	Number Sideloading Keys Software Updates Operating Systems			
	Drivers			-
	🔓 Driver Packages	*	Import Driver	
	📋 HP Client Driver Packages		Folder	•

4. The Import New Driver Wizard is displayed. In the **Import New Driver Source** field, enter the path to the source folder of the extracted HP Driver Packs in Universal Naming Convention (UNC) format.

– or –

Click **Browse** to open the Select Folder dialog box, browse to the folder that contains the extracted HP Driver Packs, and then click **Next**.

- 5. On the Driver Details page, click **Next**.
- 6. On the Add Driver to Packages page, select the package created in Creating a driver package.

3	Import New Driver Wizard
Add Driver to Pa	ackages
Locate Driver Driver Details Add Driver to Packages	Select the packages to add the imported driver
Add Driver to Boot Image	Specify the package to add this driver to.
Summary	Drivers must be added to packages and deployed to distribution points before computers can use
Progress	them. Distribution points can be updated immediately.
Completion	It is recommended that you add all required drivers before updating the package.
	Name Package ID Select All
	HP Client WinPE 5.0 x86 and x64 Driver Pa TST00028
	HP Compaq Elite 8300 PC Windows 7x64 TST00017
	HP Compaq Pro 6300 PC Windows 7x64 D TST00016
	HP DT 600/700/800 G1 Windows 8.1 x64 TST00019
	✓ HP Elite/ZBook 7x/8x G2 Win 7x64 Driver TST00018
	HP Elite/ZBook 7x/8x G2 Win8.1 x64 Drive TST00015
	test TST0002E New Package
	Undate distribution points when finished
< III >	< Previous Next > Summary Cancel

7. On the Add Driver to Boot Images page, leave the setting as default and click **Next**.

Important:

Do not add drivers from an HP Driver Package to your boot image. HP has WinPE specific driver packages that are covered in Importing an HP WinPE Driver Pack and creating boot images.

- 8. On the Completion page, confirmation that the new drivers were imported successfully is displayed.
- 9. Click **Close** to exit the wizard.

2	Import New Driver Wizard	×
Completion		
Locate Driver Driver Details Add Driver to Packages Add Driver to Boot Image Summary	The Import New Driver Wizard completed successfully Details:	
Progress Completion	All driver(s) are imported successfully. Success: The following driver(s) were imported: Realtek High Definition Audio PC Ibus Intel(R) USB 3.0 Root Hub Intel(R) USB 3.0 Root Hub Intel(R) USB 3.0 Root Hub Intel (R) USB 3.0 Root Hub Intel (R) USB 3.0 Root Hub Intel Device Intel Device Intel Device Intel Device Intel R) Management Engine Interface Intel(R) Active Management Technology - SOL Pc is Bus AMD FirePro M4170 AMD FirePro M4170 AMD High Definition Audio Device Intel(R) Listed Audio	× *
	To exit the wizard, click Close.	
< III >	< Previous Next > Summary C	lose

Distributing the driver packages

- 1. In the Configuration Manager console, expand Software Library > Overview > Operating Systems >Driver Packages.
- 2. Right-click the newly created driver packages and select Distribute Content.
- 3. Select a distribution point.
- 4. If the distribution is successful, a notification appears that the wizard complete successfully.

Downloading and Importing HP WinPE Driver Packs

Downloading HP WinPE Driver Packs

- 1. Go to http://www.hp.com/go/clientmanagement.
- 2. Select HP CMS Download Library.
- 3. Browse to HP WinPE Driver Pack, and then select the 32- and 64-bit link.
- 4. Download the appropriate version for your WinPE environment.

Note

See Microsoft ConfigMgr and HP CIK Supported Combination and Features for more information.

5. Extract the HP WinPE SoftPag to shared location.

Importing HP WinPE Driver Packs into a boot image

- 1. In the Configuration Manager console, click **Software Library**.
- 2. In the Software Library workspace, expand **Overview**, and then click **Operating Systems**.
- 3. Right-click **Drivers** and then click **Import Driver**.
- 4. The Import New Driver Wizard is displayed. Browse to the extracted HP WinPE Driver Packs, and then select them.

Note

HP WinPE driver packs include both the 64- and 32-bit drivers into one pack. HP recommends importing them separately with categories associated to the driver architecture; that is, WinPE 5.0 x86 or winPE 5.0 x64.

- 5. On the Driver Details page, verify that the drivers to be imported into the boot images are selected, and then click Next.
- 6. On the Apply Driver to Package page, do not select any packages, and then click **Next**.
- 7. On the Add Driver to Boot Image page, select the appropriate base boot image.
- 8. Optionally, select the Update Distribution point when finished option.

anata Driver		and the second	
Driver Details Add Driver to Packages	Select drivers to include in	the boot image	
Add Driver to Boot Image	The imported driver is a network card of	driver or mass storage device driver	and might be necessary
Summary	for a computer to start. Select the boot updated on their distribution points to a	images to include this driver. Note dd the new drivers.	Boot mages must be
Progress			
Completion			
	Name	Package ID	Select All
	Boot mage (x64)	TST00005	Clear Al
	Boot image (x86)	TST00004	Close Hi
	Update distribution points when fini	shed	

9. On the Completion page, there is a confirmation when the drivers are imported correctly.

Note

Before these boot images can be used in a task sequence, the boot images need to be pushed out to the distribution point.

Creating an operating-system-deployment task sequence

- 1. In the Configuration Manager console, select **Software Library**.
- 2. In the Software Library workspace, expand **Overview**, and then click **Operating Systems**.
- 3. Right-click Task Sequences, and then select Create HP Client Deployment Task Sequence.

	System Images		
	🍯 Operating System Upgrade	Pack	ages
	👼 Boot Images		
	Task Sequences	-	
	💶 Virtual Hard Disks	E	Create Task Sequence
e.	Windows 10 Servicing		Create Task Sequence Media
Office 365 Client Management	+	Import Task Sequence	
	-	۵	Create HP Client Deployment Task Sequence
		Ş	Feedback
			Folder •

- 4. Select a template from the Task Sequence Template drop-down box. The following example shows how to reference HP Tools to aid with the deployment process.
- 5. Fill in the fields as instructed.
 - A. Select a parent task sequence template.
 - B. Enter a name for the new template.
 - C. Enter the Account name and Password for an account with administrator-level credentials.
 - D. Select Use an OS WIM, and then select the Operating system package to use.

() Crea	te HP Client Bare Metal Deployment Task Sequence
Task sequence template:	afault template for Windows 7 or Windows 8 V afault template for Windows 10 fault template for Windows 7 or Windows 8 mfigure RAID example D.
Task sequence name:	P Client Task Sequence
Network (Administrator) accou	nt:
Enter administrator-	evel credentials to access shares and WMI on the site server.
Account name:	example \administrator
Descurrent	
Password:	
Confirm paseword:	•••••
Operating system installation:	ickage to use 1x64 V
Required HP client packages: HP Client BIO HP Client Sup	S Configuration Utility port Tools Create Cancel

6. Select **Create** to create a basic, bare-metal deployment task sequence for HP client systems. A message box displays confirmation of the successful creation of the task sequence.

Success	x
Successfully created the task sequence: HP C	lient Task Sequence
	ОК

Configuring task sequence steps for your environment

1. Right-click the task sequence created in Creating an operating-system-deployment task sequence, and then select **Edit**.



2. Click the **Apply Device Drivers** step in the task and delete it. HP recommends apply driver package to handle drivers in this task.

3. Click Add > Drivers > Apply Driver Package.

			Win7 SP	1 x64 Ta	sk Seque
Add - Remove		🗊 🕻	Properties	Options	
New Group		n	Type:		Apply V
General	►		Name:		Apply V
Disks	٠		Descriptio	on:	Actions
User State	۲				
Images	•	· I	Enter licer	nsing and re	gistration info
Drivers	•	Auto	o Apply Driv	ers	
Settings	•	Арр	ly Driver Pa	ckage	
HP Client Tasks	٠		Organizati	ion name:	
		-	Product k	ey:	

4. Optionally, in the Name box, modify the name of the driver package.

Note

In the task sequence, move this step to directly after the **Apply Operating System** step.

If you are deploying the same task sequence to multiple HP platforms, repeat steps 3 and 4 for each platform.

- 5. Browse to the driver package created earlier, and then select it.
- 6. On each HP system there is a unique identifier called a system board ID, or SYSID for short. The SYSID never changes for any specific model and can be relied upon for driver insertion. You can find this value via a WMI query, because this value is used by HP driver tools for system detection. HP recommends that you use this value to control driver injection and package installation.

To perform a WMI query to find the SYSID:

A. On the Apply Drivers Task step, open the Options tab. Select Add Condition, and then select If statement.

	Properties	Options		
	🗌 Disab	ole this step	2	
	Conti	nue on em	or	
	🕐 Add	Conditio	n 🗸 🔀 Remove	× Remove A
	lf	statemer	nt	conditions ar
n	Т	ask Seque	ence Variable	2 BaseBoar
	0	norating	Surtom Version	2 0030000

B. On the If Statement Properties page, click **Any Condition**, and then select **OK**.

If Sta	tement Proper	ties 📕
O All conditions		
Any condition		
O None		

C. Click the If any statement you just added, and then click Add Condition > Query WMI.

Properties Options					
Disable this step					
Continue on error					
	(a				
Add Condition - K Remove 7	Remove All				
If statement	onditions are met:				
Task Sequence Variable	2 Page Poard WHERE Product = "1992"				
Operating System Version	2 BaseBoard WHERE Product = "1985"				
File Properties	2 BaseBoard WHERE Product = "190A"				
Folder Properties	2 BaseBoard WHERE Product = "213E"				
Denistry Cattion	2 BaseBoard WHERE Product = "2101"				
Registry Setting	2 BaseBoard WHERE Product = "1994"				
Query WMI	2 BaseBoard WHERE Product = "2102"				
Installed Software	BaseBoard WHERE Product = "21B3"				
WWIGDERY BELECT FROM WIT	32 BaseBoard WHERE Product = "1991"				
WMIQuery <u>SELECT * FROM Win</u>	32 BaseBoard WHERE Product = "1992"				
WMIQuery SELECT * FROM Win	32 BaseBoard WHERE Product = "1909"				

- D. Open the CVA file from the driver pack that you imported. The CVA file within an HP SoftPaq is a text file similar to a Microsoft .ini file.
- E. Find the SYSIDs of all systems supported by the driver pack.
- F. Enter this WMI Query for each SYSID you found that is in your IT environment.
 For example, a SYSID of '1993' can be tested for during deployment using the following WMI Query:

SELECT * FROM Win32_BaseBoard WHERE Product = ``1993"	SELECT * 1	FROM Win32_	BaseBoard	WHERE	Product	=	"1993"	
---	------------	-------------	-----------	-------	---------	---	--------	--

	WMI Query Properties
Enter the WMI Query	to evaluate.
WMI Namespace:	root\cimv2
WQL Query:	SELECT * FROM Win32_BaseBoard WHERE Product = *1993''
	Test query OK Cancel

G. Click **Test query**. If successful, a valid syntax confirmation message appears.

Note

If a valid syntax is not reported, your task sequence will fail because the task sequence engine cannot evaluate the statement properly.



H. Add a WMI query for each SYSID in your environment.

Note

All the WMI queries should be rooted to the If any statement.

W	/indows 7 x64 SP1 Task Sequence Editor
	Properties Options
	Disable this step Continue on error
	Add Condition - X Remove X Remove All
	This group/step will run if the following conditions are met.
	If <u>Any</u> the conditions are true:
ווי	WMI Query <u>SELECT * FROM Win32 BaseBoard WHERE Product = "1993"</u>
	WMI Query SELECT * FROM Win32 BaseBoard WHERE Product = "198F"
	WMI Query SELECT * FROM Win32 BaseBoard WHERE Product = "190A"
	WMI Query SELECT * FROM Win32 BaseBoard WHERE Product = "1994"
	WMI Query SELECT * FROM Win32 BaseBoard WHERE Product = "2102"
	WMI Query SELECT * FROM Win32 BaseBoard WHERE Product = "21B3"
	WMI Query SELECT * FROM Win32 BaseBoard WHERE Product = "1991"
	WMI Query SELECT * FROM Win32 BaseBoard WHERE Product = "1992"
	WMI Query SELECT * FROM Win32 BaseBoard WHERE Product = "1909"

- I. Repeat this process with for each driver pack, so that every driver pack contains every WMI query needed to support the platforms in your IT environment.
- 7. You can now deploy the task sequence.

A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Descrition (D. H.		
Add + Remove BJ CB Restart in WinPE	Type:	Apply Driver Package	
Configure Hardware Set BIOS Configuration (Input File)	Name:	HP Elte/Zbook G2 Win 7x64 DP	
Install Operating System Partition Disk Partitions (diskpart clear Partition Disk 0 - BIOS	Description:		~
Partition Disk 0 - UEFI Apply Operating System Image HP Elte/Zbook G2 Win 7x64 DP	Select the driver pac	kage containing drivers to be made available during	g Windows setup.
HP Pro 6300 Win 7x64 DP	Driver Package:	HP Elite/ZBook 7x/8x G2 Win 7x64 Drive	Browse
	Driver:		,
	Driver:		
	Model		~
	Do unattended in allowed	nstallation of unsigned drivers on versions of Windo	ws where this is
< III >			

BitLocker task

Using HP BIOS Configuration Utility to prepare the BIOS for BitLocker enablement

1. If you have HP MIK installed, right-click the HP Client BIOS Configuration Utility package in the Software Library and select Properties.



- 2. Click the Data Source tab. Do not click the network location.
- 3. Browse to the location of the source package, and then copy the BiosConfigUtility64.exe file to a USB drive.

Note

Sometimes the operating system deployment folder is not properly shared and permissions need to be fixed on this folder before you can browse it and copy files into it.

Searci	h	
lcon	Name	HP Client BIOS Configuration Utility Properties
0	HP Client BIOS Configuratio	General Data Source Data Access Distribution Settings Reporting Content Locations Security
0	HP Client Support Tools SSM Script	Select whether this package contains source files. If it does, specify the initial location of the files and set additional source file options.
		Source folder ble net\SMS_TST\OSD\Lib\Packages\Deployment\HP\Client\HWConfig\BCU\ Set

4. Insert the USB drive into the client system you are working with and run the following command, where D: \ is the USB drive:

D:\BiosConfigUtility64.exe /get:uniquename.txt

HP recommends that you name the configuration file <modelname>.txt so that a small form factor desktop HP 6300 would be 6300sff.txt or an HP Revolve G2 would be 810G2.txt.

- 5. Verify that the configuration file was created in the root directory of the USB drive.
- 6. Open the configuration file and delete any settings that you do not intend to change.

7. The following settings are required to allow BitLocker to be enabled in your SCCM task. The following example uses the HP 810 G2 used as an example.

Note

N

If you are a first-time BCU user, see the <u>HP BIOS Configuration Utility (BCU) User Guide</u> for details on how BCU works and command-line usage.

The settings can be slightly different for each platform family, and as such HP recommends that you create a configuration file for each platform, and that testing effort is put into verifying cross platform compatibility of a given configuration file. Product families of the same generation can generally share a configuration file, but always test any configuration files you intend to deploy.

- A. Set TPM Reset to Factory Defaults to No.
- B. Set Reset of TPM from OS to Enable.
- C. Set **OS Management of TPM** to **Enable**.
- D. Set Activate TPM On Next Boot to Enable.
- E. Set **TPM Device** to **Available**.
- F. Set TMP Activation Policy to No prompts.

File Edit Format View Help
English
TPM Reset to Factory Defaults
*No
Yes
Reset of TPM from OS
Disable
*Enable
OS Management of TPM
Disable
*Enable
Activate TPM On Next Boot
Disable
*Enable
TPM Device
Hidden
*Available
TPM Activation Policy
F1 to Boot
Allow user to reject
*No prompts

- 8. Save this file in the **Config** folder in the BCU package source location.
- 9. Enter the BIOS Admin password is required to enable the TPM settings.
- 10. The P@ssw0rd1234.bin file needs to be in the BCU folder as well.

For setup information for SSM and instructions that detail the creation of the password.bin file, seeAppendix C: Installing and configuring HP SSM.

Name	Date modified	Туре	Size
🍌 Config	4/15/2015 4:14 PM	File folder	
BIOS Configuration Utility User's Guide	7/2/2015 10:14 AM	Internet Shortcut	1 KB
BiosConfigUtility	3/27/2015 9:17 AM	Application	1,378 KB
BiosConfigUtility64	3/27/2015 9:17 AM	Application	1,769 KB
D HpqPswd	3/11/2015 4:16 PM	Application	1,970 KB
D HpqPswd64	3/11/2015 4:16 PM	Application	2,706 KB
packageinfo.cfg	3/30/2015 10:41 AM	CFG File	16 KB
RunBCU	7/2/2015 10:14 AM	Windows Comma	2 KB

- 11. In the Software Library, right-click the HP Client BIOS Configuration Utility package and select one of the following:
 - If the connected has not been pushed to the distribution points, select **Distribute Content**.

- If the content exists on the distribution points, select **Update Distribution Points**.

Note

Anytime a config file is added to the BCU source folder, the package must be updated on the distribution points.

Editing a task sequence to modify BIOS settings and disable or enable BitLocker

The HP BIOSConfigUtility.exe requires a BIOS setting text file to perform configurations. The tool can also be used to set a BIOS Administrator password or to work with systems that have a password in place. This text file uses a specific syntax to ensure that it is properly recognized and used. Get this file by running the tool on an existing client (one that is to be managed) with the /GET option. The file can then be modified and applied to a similar client with the /SET option.

- 1. Right click the task sequence and select Edit.
- 2. At the top left of the task sequence Disable BitLocker, click **Add** > **New group**. Add this group to the beginning of the task.
- 3. Click Add, select Disks and then click Disable BitLocker.

Note

To use this task sequence step, the Windows operating system must support BitLocker.

			Win7	x64 Tas	k Seque
Add - Remove		i) 🕻	Properties	Options	
New Group			Type:		Gro
General	۲	n	Name:		Disa
Disks	•	For	mat and Par	tition Disl	(
User State	۲	Co	nvert Disk to	Dynamic	
Images	۲	Ena	able BitLocke	er	E
Drivers	۲	Dis	able BitLock	er	ti
Settings	٠	Pre	-provision B	itLocker	
HP Client Tasks	•	n			

- 4. Add another new group to the end of the task, called BitLocker Tasks.
- 5. Click Add > General > Run Command Line.

			Win7 SP	1 x64 T	ask Seq
Add - Remove		a) (Properties	Options	
New Group		n	Type:		Grou
General	•	Run	Command	Line	
Disks	٠	Run	PowerShell	Script	
User State	۲	Set I	Dynamic Var	iables	
Images	٠	Insta	all Applicatio	n	
Drivers	►	Insta	all Package		
Settings	٠	Insta	all Software	Updates	
HP Client Tasks	۲	Join	Domain or	Workgrou	up
		Con	nect to Netv	vork Fold	ler
		Rest	art Compute	er	
		Set	Task Sequen	ce Variab	le
		Che	ck Readines	s	

- 6. Rename this task Set BIOS settings for BitLocker via BCU.
- 7. Select the start this command line in a package box, and then select the **HP Client BIOS Configuration Utility** package.
- 8. Add this command line, where 810G2.txt is the name of the configuration file in the BCU\config folder and P@ssw0rd1234.bin is the password file in the root of the BCU package source:

RunBCU.cmd /nspwdfile:P@ssw0rd1234.bin /setconfig:"Config\810G2.txt"

This command line sets the BIOS password to the value in the P@ssw0rd.bin setting, enables TPM on next boot, bypasses the F1 prompt that is generally associated with activating the TPM, and prepares the BIOS settings for the operating system to manage the TPM.

Note

Most systems can use the same or a similar config file. If you have multiple config files for multiple systems and want to deploy a task sequence delivering the config files tasks to the right systems, you can use the **If any SYSID** statements. For instructions, see Configuring task sequence steps for your environment.

	Win7 SP1 x64 Ta	ask Sequence Editor		-		
Add • Remove 👘 🕼	Properties Options					
Disable BitLocker	Туре:	Run Command Line				_
Install Operating System Restart in Windows PE Partition Disk 0 - BIOS Partition Disk 0 - UEFI	Name: Description:	Set BIOS Settings for BitLock	ker with BCU			
Apply Operating System Apply Driver Package Apply Windows Settings Apply Network Settings	Command line: RunBCU cmd /nspv	rdfile: P@ssw0rd1234.bin /set: "Co	nfig\810G2.bt"			-
Setup Operating System Setup Operating System Setup Operating System Person Installs Setup Operating Operating Setup Operating Operating ExtLocker Tasks Set BIOS Setungs for BtLocker with B	Disable 64-bit file	system redirection		Benne		
	Package:	onfiguration Utility 4.0.13.1		Brow	10	-
	Time-out (minutes Run this step as t): [15] he following account	(A)			
	Account:			Set		
< <u> </u>		ок	Concel	1	Anni	h

9. Click Add > General > Restart Computer.

- A. Set **Restart** to the currently installed operating system.
- B. Optionally, choose to notify the user.
- 10. Click Add > Disk > Enable BitLocker.
- 11. Enter the appropriate information on the BitLocker task.
- 12. The task is ready for deployment.

	Win7 SP1 x64 Task	Sequence Editor		-		x
Add - Remove 1 5 G	Properties Options					
Disable BitLocker	Type:	Enable BitLocker				
Install Operating System	Name:	Enable BitLocker				
Restart in Windows PE Partition Disk 0 - BIOS Partition Disk 0 - UEFI	Description:				[~
Apply Operating System Apply Driver Package	Choose the drive to en	crypt				
Apply Windows Settings	 Current operating s 	ystem drive				
Setup Operating System	Choose the key ma	nagement to use for the o	perating system drive			
Setup Windows and Configuration Application Installs	TPM only					
SSM package to install remaining a	O Startup Key on	USB only	First available USB f	lash dr	iv 🗸	
BitLocker Tasks	O TPM and Start	up Key on USB	First available USB f	lash dr	iv 🗸	
Enable BitLocker	O TPM and PIN					
	O Specific Drive		C:		V	
	Choose where to creat	e the recovery key				
	In Active Directory	Domain Services				
	 Do not create a rec 	covery key (not recommen	ded)			
	Wait for BitLocker to Configuration Manaç To use this task see BitLocker.	complete the drive encry per continues to run the tar quence step, the Windows	ption process on all drive sk sequence s operating system must :	s befor	e	
		ОК	Cancel		Apply	,

HP update deployment

Keeping the computers in a business up to date, with both the latest software and hardware updates, presents a number of problem, including time, bandwidth, and logistical issues. HP offers tools that help streamline the update process, reducing IT costs for small businesses and across an enterprise.

The method you select for your organization's update depends on both on your existing infrastructure and the requirements you have for software deployment and updates. Consider the following deployment methods and how you can use them to support your deployment.

Deploying HP updates via HP Client Catalog and Microsoft SCCM 2012 or higher

HP highly recommends deploying HP updates via HP Client Catalog and SCCM. This method comprehensively assesses, deploys, and updates servers, client computers, and devices across physical, virtual, distributed, and mobile environments. SCCM is designed for large organizations and allows greater flexibility in customizing deployments of updates.

In addition, HP offers HP Client Catalog to streamline updates for HP systems within a SCCM infrastructure; HP Client Catalog contains software driver and patch information for desktops, notebooks, and workstations. It provides detailed platform information for software updates to target appropriate client systems within the managed enterprise.

Figure 1. Third-party update process using SCCM



1. Administrator downloads and imports the HP Client Catalog into the publishing tool.

2. Administrator publishes flagged updates to the SMS site server.

3. Target devices get policies to scan for updates.

4. Target devices download and scan for update compliance. The scan engine may query WMI for applicability.

5. Target devices send the compliance information back to the site database.

1. Administrator selects and approves HP updates for distribution.

2. The update packages are downloaded to the distribution point.

3. Target devices get deployment policies.

4. The update packages are downloaded and installed.

5. Target devices are rescanned for compliance and the information is sent back to site database.

Configuration Manager

Configuration Manager uses Windows Server Update Services (WSUS) and the System Center Updates Publisher (SCUP) for the software update process. SCUP allows an IT administrator to import and select custom software updates to publish to WSUS.

The Configuration Manager custom update process includes three phases:

• Importing and publishing third party updates

HP customers can configure the import list in SCUP to reference the link to the catalog on the HP FTP site and import it into SCUP. The administrator can then select updates to publish to WSUS. Configuration Manager synchronizes with WSUS, either on schedule or on demand, to insert the software update metadata into the Configuration Manager Software Update Point server role. When the synchronization is complete, a site-wide machine policy is created to allow managed systems to retrieve and initiate a scan for software update compliance.

• Scanning clients for update compliance

When a managed system receives the machine policy, a compliance scan is scheduled. The Windows Update Agent (WUA) connects to the WSUS server, retrieves the list of updates, and scans the managed system against the applicability and installed rules of each update. The Configuration Manager Software Update Client Agents send compliance information back to the site server. Based on the compliance status, the administrator can see which update are needed by managed systems and can then decide which updates to distribute.

Deploying updates

The administrator creates deployments and deployment packages to distribute the selected updates. When a collection of targeted devices receives a new deployment from the management point, the clients download the software updates from a distribution point that has a deployment package containing the necessary software update binaries. The binaries are then installed on the clients and the compliance status is reported to the site server.

Importing and publishing third-party updates

After installing and configuring the Configuring Manager site server, WSUS, and SCUP, you can use the following steps to import the HP Client Catalog.

- Download the HP Client Catalog for Microsoft System Center Products at the following link and save it to your primary site server or a system running the SCUP: ftp://ftp.hp.com/pub/softlib/software/sms_catalog/HpCatalogForSms.latest.cab
- 2. Select Start > All Programs > System Center Updates Publisher > System Center Updates Publisher 2011.
- 3. Click Import, and then select Browse to browse to the location of the HP Client Update catalog cab file.



4. Follow the on-screen instruction to complete the importation.

Note

There might be a security prompt to accept software update binaries signed by HP Inc. The option **Always accept content from "HPInc."** allows the administrator to publish multiple HP updates without having to accept each individually. Select the appropriate option, and then select **Accept**.

🕑 Security Warning - Catalog Validation	×
🕐 Security Warning	<u> </u>
Do you want to accept this catalog?	
Name: HpCatalogForSms.20180210.cab	
Publisher: HP Inc.	
Always accept content from "HP Inc."	
Ask me every time	
View Certificate Accept Dor	n't Accept
Catalog files from untrusted publishers can potentially harm client computers scanning for updates. Only accept catalogs from publishers you trust.	when
Tell Me More	

5. When the importation is complete, the Confirm dialog appears. Select **Close**.

	Import Software Opdates Catalog Wizard
👌 Confirmatic	on ATT
Import Type	The Import Software Update Catalog Wizard completed successfully
Summary	Import Catalog Information
Progress	Hewlett-Packard Client Updates Catalog ftr://ftn.hr.com/nub/soffilib/soffware/sms_catalog/HpCatalogEorSms.latest.cab
Confirmation	907 updates were imported. 907 updates were imported.
	To exit the wizard, click Close.
Import Software Updates	Catalog Wizard X
Confirmatio	n Alette
Import Type	The Import Software Update Catalog Wizard completed successfully
Summary	Import Catalog Information
Progress	Manual Import: <u>CSSCCH05NncH1pCatalogForSms20180210.cab</u> 3516 updates were processed. 3516 updates were imported.
	To exit the wizard, click Close.

6. The SCUP windows displays the HP Business Clients under **All Software Updates**. Click **HP Business Clients** to view all drivers and the categories.

	All HP ficulates Clients adheate cretates								
Software Updates	Name.	Under Tree	Onefection	for sold	Autoria 10	Parts O CER Law	A Data Maddinal D	the D. Million of	
Driver	Fight Metabasek System BIOS Hadate 101 15 511	Undate type	Colical	College		No.	1/22/2018	and a province of	
Ermante	HP Notebook System RIOS Undate 101.15.411	Undate	Undate	Important	un79885	No	\$/3/2017		
Software	FIP Notebook System BIOS Update [01.15.A1]	Update	Critical	Critical	1084955	No	1/27/2018		
	FIP Notebook System BIOS Update [01.15,A1]	Update	Critical	Critical	sp76011	No	8/31/2016		
	HP Notebook System BIOS Update [01.15.A1]	Update	Critical	Ceñical	sp84880	No	1/27/2018		
	HP Notebook System BIOS Update [01.15.A1]	Update	Critical	Critical	sp84372	No	1/2/2018		
	HP NoteBook System BIOS Update [01.15.A3]	Update	Update	Important	sp76018	No	5/24/2016		
	FIP Notebook System BIOS Update (01.16.A1)	Update	Critical	Critical	sp79914	No	4/28/2017		
	HP Notebook System BIOS Update [01.16.A1]	Update	Critical	Critical	sp81462	No	8/2/2017		
	MP Notebook System BIOS Update [01.16.A1]	Update	Critical	Critical	1079874	No	3/2/2017		
	HP Notebook System BIOS Update [01.16.A1]	Update	Critical	Critical	sp62331	Peo	10/5/2017		
	PHP Notebook system B/US Update [21.16.41]	Update	CNECH	CHECH	100/039	PVD	7/6/2017		
	PP Notebook System BIOS Opdate [01.16.A1]	Update	Upoare	supportant	species	Peo	7/10/2017		
	NP Notebook System BIOS Hedata (0) 16.411	Undate	Undate	Important	op 77156	No.	4/10/2017		
	HP Notebook System BOS Lindate 101.16.411	Undate	Critical	Critical	1077808	No	11/7/2016		
	MP Notebook System BIOS (Jackate 10), 16 AV	Undate	Critical	Califical	1074548	No	12/16/2015		
	HP Notebook System BIOS Update (01.16.A1)	Update	Critical	Critical	1054058	No	1/25/2018		
	HP Notebook System BIOS Update [01.16.A1]	Update	Critical	Critical	te-77906	No	11/4/2016		
	HP Notebook System BIOS Update [01.16.A1]	Update	Critical	Critical	sp77326	No	8/8/2016		
	HP Notellook System BIOS Update [01.16.A1]	Update	Update	Important	1076257	No	6/20/2016		
	HP Notebook System BIOS Update [01.16.A2]	Update	Update	Important	1082305	No	10/20/2017		
	HP Notebook System BIOS Update [01.17.A1]	Update	Critical	Critical	1p82264	No	11/5/2017		
	HP Notebook System BIOS Update [01.17,A1]	Update	Critical	Critical	sp81456	No	6/1/2017		
	HP Notebook System BIOS Update [01.17.A1]	Update	Update	Important	sp83649	No	12/6/2017		
	HP Notebook System BIOS Update [01.17.A1]	Update	Update	Important	1081023	No	7/11/2017		
	HP Notebook System BIOS Update [01.17.A1]	Update	Critical	Critical	sp82290	No	10/21/2017		
	HP Notebook System BIOS Update [01.17.A1]	Update	Critical	Critical	sp79777	No	6/19/2017		
	HP Notebook System BIOS Update [01.17.A1]	Update	Critical	Critical	sp85229	No	2/6/2018		
	HP Notebook System BIOS Update [01.18.A1]	Update	Critical	Critical	sp81458	No	8/1/2017		
	HP Notebook System BIOS Update [01.18.41]	Update	Critical	Critical	sp79761	No	3/1/2017		
	HP Notebook System BIOS Update [01.18.41]	Update	Critical	Critical	sp04/08	760	2/8/2018		
	HP Notebook System Bros Optime (01.16.41)	Update	Critical	Critical	10001	140	1/20/2017		
	HP Notebook System bios Optime [01,16,41]	Update	Critical	Critical	10000004	No.	7/20/20/10		
	HP Netebook System BIOS Undate 101, 18 A11	Undate	Undate	Important	10822582	No	10/20/2017		
	HP Notebook System BIOS Update [01.18.A1]	Update	Critical	Critical	up84316	No	1/3/2018		
	design of the second								

- Publishing HP updates to WSUS1. Select your updates. Right-click the updates, and then click Publish.
 - or –

Click the **Publish** button.

System Center updates Publishe	er 2011										
Home Folders		-									
📥 🔪 🖉 🖂	- 🗈 💿 🗙 📥 📥	X 1									
🕂 🗸 🖉											
Create Import Edit Assign	Duplicate View Delete Export Publis	h Expire Reactivate	e								
•	XML	-									
Create	Update	Expiration									
Overview	All HP Business Clients software up	dates									
All Software Updates	var ni business eneries sortivare up	auco			_						
Image: A state of the state	Name Upda	te Type Classification	Severity	Article ID Bulletin ID	CVE ID	Expired	Date Modified	Date Published			
Driver	🕘 2011 ATI Workstation Driver for V Upda	te Update	Important	sp62358		No	12/3/2015	6/7/2017			
Software	2011 ATI Workstation Driver for V Upda	te Update	Low	sp59441		No	12/10/2015				
Firmware	2013 Drive Encryption for HP Pro Upda	te Update	Important	sp62519		No	3/31/2015				
	2013 HP Client Security Manager Upda	te Update	Important	sp62269		No	10/4/2016				
	2013 Security Manager [8.0.3.134 Upda	te Security	Important	sp62518		No	10/3/2013				
	2014 Wacom Digitizer Driver - W Upda	te Update	Important	sp71726		No	7/23/2015				
	2014 Wacom Digitizer Driver - W Upda	te Update	Low	sp72152		No	8/4/2015				
	2014 Wacom Digitizer Driver [7.3 Upda	te Update	Important	sp/3084		No	6/29/2016				
	2015 Intel Dynamic Platform and Opda	te Update	Low	sp/4284		No	6/16/2016				
	2015 Intel Dynamic Platform and Upda	te Update	Important	sp/9551		No	5/2/2017				
	AcPi driver for 21 G2 graphics sc Upda	te Update	Important	sp/9942		NO No	5/2/2017				
	Agate Conexant Driver [1.51.50.0 Opda	te Update	Low	sp72303		No	1/13/2017				
	Alcor Micro Smart Card Reader E Upda	te Update	Low	sp52209		No	1/12/2017				
	Alcor Micro Smart Card Reader E Upda	te Opuace	Critical	sp52290 sp55287		No	1/13/2017				
	Alcor Micro Smart Card Reader E Upda	te Critical	Critical	sn55574		No	1/13/2017				
	Alcor Micro Smart Card Reader E Upda	te Update	Important	sp56689		No	1/13/2017				
	Alcor Micro Smart Card Reader E Upda	te Update	Low	sp59033		No	1/13/2017				
	Alcor Micro Smart Card Reader E Upda	te Update	Low	sp62783		No	10/17/2013				
	👸 Alcor Micro Smart Card Reader E Upda	te Update	Important	sp63565		No	11/22/2013				
	Alcor Micro Smart Card Reader E Upda	te Update	Important	sp64757		No	3/31/2014				
	Alcor Micro Smart Card Reader E Upda	te Update	Low	sp65628		No	3/15/2015				
	Alcor Micro Smart Card Reader E Upda	te Update	Important	sp69072		No	2/10/2015				
	Alcor Micro Smart Card Reader E Upda	te Update	Low	sp74001		No	2/14/2017		12	Edit	
	Alcor Micro Smart Card Reader E Upda	te Update	Low	sp75198		No	12/15/2016		73	Assian	
	Alcor Micro Smart Card Reader L Upda	te Update	Low	sp75918		No	1/5/2017			Assign	_
	Alcor Micro Smart Card Reader E Upda	te Update	Low	sp78193		No	1/31/2017			Duplicate	
	Alcor Micro Smart Card Reader E Upda	te Update	Low	sp/8814		No	5/2/2017		-	View XML	
	Alcor Micro Smart Card Reader L Upda	te Update	Low	sp78994		No	2/9/2017		×	Delete	
	Alps GlidePoint Trackpad Driver Upda	te Update	Low	sp/1834		No	11/3/2016		$\hat{\mathbf{C}}$	Delete	_
	Alps GlidePoint Trackpad Driver Upda	te Update	LOW	sp77430		NO No	3/3/2017	1	~	Export	
	Alex GlidePoint Trackpad Driver Upda	te Update	lonostant	sp00010		No	0/24/2012		Ŷ	Publish	
	Alps GlidePoint Trackpad Driver Upda	te Undate	Important	sp02304		No	10/22/2013		AT 1	Expire	
	Alps GlidePoint Trackpad Driver Upda	te Undate	Low	sn64859		No	3/31/2014		-	and the second sec	Publish selected
	Alos GlidePoint Trackpad Driver Upda	te Undate	Low	sp70196		No	4/14/2015		2	Reactivate	
	Alps HID Mouse Driver (8,2206.1) Upda	te Update	Important	sp74315		No	8/18/2016				
	Alps HID Mouse Driver [8.2206.1] Upda	te Update	Important	sp75766		No	7/28/2016				
	Alps HID Mouse Driver [8.2206.1. Upda	te Update	Important	sp76539		No	1/4/2017				
	Alas HID Mours Driver 19, 2206 1- Unda	to Undate	Important	rn77990		No	2/7/2017				
	Lindate Details										

2. Select the appropriate publishing option.

-	Publish Software Updates Wizard
🔶 Publish Op	otions
Publish Options	Specify publish options
Summary	Select how you would like to publish the selected updates: Automatic
Progress	Click Automatic to allow Updates Publisher to query. Configuration Manager to determine whether the selected software undates are published with full content or only metadata. In this mode software undates are
Confirmation	only published when they 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.
	O 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.
	O 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. Follow the on-screen instructions.

Synchronizing software updates from WSUS to Configuration Manager 2012

- 1. In the Configuration Manager console, select Software Library > Application Management > Software Updates > All Software Updates.
- 2. Right-click All Software Updates, and then select Synchronize Software Updates.

 Software Updates 		AMD 2013 5G Win761	
All Software Updates	\$	Synchronize Software Updates	
Deployment Packages Automatic Deployment Rules	•	Run Summarization Schedule Summarization	•
Operating Systems		Folder	ŀ

3. The synchronization process is initiated and might take a few minutes to complete. There is no visual indication that the process has completed.

Note

Open SMS_WSUS_SYNC_MANAGER for details of the sync process.

4. After the synchronization process has completed, follow the steps in Deploying an HP software update from Configuration Manager to deploy an HP update.

Deploying an HP software update from Configuration Manager

- 1. In the Configuration Manager console, select Software Library > Application Management > Software Updates > All Software Updates.
- 2. Right-click an update to be distributed, and then select **Deploy**.
- 3. Enter an appropriate name, and then select **Browse** and browse to select the collection to target for this update. If you wish to create a collection for HP devices, see Deploying HP updates via HP SSM and HP SDM.

۶.	Deploy Software Updates Wizard	
General		
General	Specify general information for this deployment	
Deployment Settings		
Scheduling		
User Experience	Deployment Name: AMD Video Win7/81	
Alerts	Description:	
Download Settings		~
Deployment Package		
Distribution Points		~
Download Location	The following software update or software update group is included in this deployment.	
Language Selection	Software Update/Software AMD 2014 Win 781 Video Driver [14:301 W6]	V88
Summary	Update Group:	
Progress	Select a previously saved deployment template that defines configuration settings for this deployment. Before you com	plete this
Completion	wizard, you have the option to save the current configurations as a new deployment template.	
	Select Deployment Template	
	Deploy this software update deployment to the following collection.	
	Collection	

4. Follow the on-screen instructions to complete the deployment process.

Note

The white paper <u>HP Client Updates Catalog for Microsoft System Center Products</u> provides details on the setup and custom update process, explains the benefits of using this option, and provides additional resources for importing the catalog into the SCCM and deploying HP updates to HP systems.

Deploying HP updates using HP SDM and HP SSM

HP SDM is a free tool that allows you to download HP updates by selecting platforms and an operating system.

HP SSM is a free utility that helps streamline the mass deployment of system software updates to target devices. HP SSM reduces the complexity of system software management by delivering the following capabilities:

- Deploying system software updates (for example, drivers and BIOS) from a centralized file store to multiple target devices, simultaneously and automatically
- Deploying customer-created update packages
- Logging the changes made to each computer

Creating an SSM batch file

To create an SSM batch file for use either with SCCM or with no management console:

- 1. Open Notepad.
- 2. Enter the following syntax into a new text document:

Echo off

```
Net use \\<SoftpaqServerHostname>\SSMFS /u:<domain>\<account> <password>
```

Echo.CD=%CD%

Pushd %~dp0

ssm.exe \\<SoftpaqServerHostname>\SSMFS /install /a /edebug /noreboot
/log:\\<SoftpaqServerHostname>\Logs\

Popd

Example:

Echo off

```
Net use \\Win81x64\SSMFS /u:example\administrator P@ssw0rd
```

Echo.CD=%CD%

Pushd %~dp0

```
ssm.exe \\Win81x64\SSMFS /install /a /edebug /noreboot
/log:\\Win81x64\SSMLogs\
```

Popd

Note

The /edebug switch is not necessary, but is recommended during testing because it creates log files in your log share. It can be removed for production.

To upgrade a BIOS SoftPaq, use the following syntax (replace <filepath> with the path to the .bin file containing the password):

ssm.exe \\<SoftpaqServerHostname>\SSFFS /install /a /edebug /noreboot /cpwdfile: "<filepath>" /log:\\<SoftpaqServerHostname>\Logs

Ensure that <SoftpaqServerHostname>\Logs has the Write permission.

- 3. Click File > Save As.
- 4. Under **Save as type**, select **All Files**, and save the file to a temporary location as SSM.bat.

Deploying HP updates using HP SDM and HP SSM with SCCM

A simple way to automate software updates is by using HP SDM and HP SSM in conjunction with SCCM. This provides you with a complete solution to manage your HP computers.

The key features and benefits include the following:

- **Client information**—Allows you to retrieve the hardware and software inventory of HP computers. You can generate numerous reports to help track down the hardware or software currently installed on your system devices.
- **SoftPaq Deployment**—Deploys SoftPaqs (software support files, such as BIOS and driver updates) from a central location to the devices that need them.



Configuring the package directory

1. On the SCCM server, create a folder to hold the SSM package on a network share. In this example, c:\SSMPackage or \\SCCM\SSMPackage is the directory used. Use the share location for your environment.

Ho	me	Share	View	
*	1		M\SSMPackage	

- 2. If you haven't already, create an SSM batch file (SSM.bat) as described in Creating an SSM batch file.
- 3. Copy SSM.bat, SSM.exe, and SSM.cab into this directory.

T	his PC 🕨 Local Disk (C:)	 SSMPackage 			
	Name	Date modified	Туре	Size	
	SSM	5/11/2015 12:49 PM	Windows Batch File	1 KB	
	🚼 ssm	3/13/2015 2:28 PM	Cabinet File	9,656 KB	
	SSM 🥌	3/13/2015 2:29 PM	Application	2,956 KB	

Creating an SCCM package to deploy SSM

- 1. In the Configuration Manager console, click **Software Library**.
- 2. Expand Application Management.
- 3. Right-click the **Packages** folder, and then select **Create Package**.

 Øverview 		Search	h	
🔺 🛄 Application Management	t.	lcon	Name	
Applications		0	Configuratio	on M
A S Packages		a	Configuratio	an M
Configuration Ma	Create Package			
HP Client Suppor	Create Package fr	om Defin	ition	
Approval Requests	Import			igra
[4] Global Conditions	Folder		•	

4. Name the package and enter any additional information on the first page of the wizard, and then click Next.

Note

Make sure you that select the source file location where you saved SSM.exe, SSM.cab, and the SSM.bat script. Do not select the shared folder containing the SoftPaqs.

3	Create Package and Program Wizard	L
Package		
Package Program Type Standard Program Requirements Summary	Specify information about this package Enter a name and other details for the new package. To take full advantage of new features that include the Application Catalog, use an application instead.	
Progress	Name: SSM Script	1
Completion	Description: The script will run SSM.exe in update mode on an HP client computer	
	Manufacturer:	1
	Language: US Version:	1
	This package contains source files Source folder: Vacom \SSMPackage Browse	
	< Previous Next > Summary: Cancel	

- 5. Verify that the default **Standard Program** is selected, and then click **Next**.
- 6. Enter the information on the program in this package. The information boxed in red in the following figure is especially important.
 - A. In the Name field, enter SSM.bat.
 - B. In the **Command line** field, select **Browse**, and then select **SSM.bat**.

Note

To select SSM.bat, be sure to change the file type from exe files to all files.

- C. Under Run, select Normal.
- D. Under Program can run, select Whether or not a user is logged on.
- E. Under Drive mode, select Runs with UNC name.

Specify information about this standard program

Name:	SSM.bat	
Command line:	ssm.bat	Browse
Startup folder:		
Run:	Normal	Ŷ
Program can run:	Whether or not a user is logged on	Ŷ
Run mode:	Run with administrative rights	Ŷ
Allow users to view	and interact with the program installation	
Drive mode:	Runs with UNC name	~

7. Enter the Estimated disk space and Maximum allowed run time (minutes).

Estimated disk space:	500	~	MB	¥
Maximum allowed run time (minutes):	15	~		

8. Click **Next**. There is a notification when the wizard is completed successfully.



Editing the SSM.bat program for distribution

oftware Library	Packag	jes 5 items					
- A Overview	Search	1					
Application Management	lcon	Name	Programs	Manufacturer	Version	Language	Package ID
Applications		Configuration Manager Client Package	0	Microsoft Corpo			TST00002
4 🔂 Packages		Configuration Manager Client Upgrade	1	Microsoft	6.0	ALL	TST00006
Configuration Manager Updates		User State Migration Tool for Windows 8.1	0	Microsoft Corpo	6.3.9600.17029		TST00001
1 UD Class Consult Deduces	O	SSM Script	1	HP		US	TST0001A

2. Click the Programs tab, and then right-click the SSM.bat program. Select Properties.

SSM				
lcon	Name	Command Line	Run	Disk Space Requirement
	ssm.bat	ssm.bat	Normal	500 MB
			1	Enable
				Disable
			Q	Refresh F5
			×	Delete Delet
			-	Deploy
-				Properties

3. Select Allow this program to be installed from the Install Package task sequence without begin deployed.

ssm.bat Properties									
OpsMgr Maintenance Mode General Requirements Environment Advanced Windows Installer									
You can specify additional criteria for installing and running this program. You can also temporarily disable the program.									
Run another program first:									
Package: Browse									
Program:									
Always run this program first									
When this reserve is assigned to a serve tax.									
Run once for the computer									
Suppress program notifications									
A disabled program is not displayed or run on clients.									
Disable this program on computers where it is deployed									
✓ Allow this program to be installed from the Install Package task sequence without being deployed									
OK Cancel Apply									

4. Click **Apply**, and then click **OK**.

Distributing the SSM Script package

1. Right-click the SSM Script package and select Distribute Content.



- 2. Select the distribution point.
- 3. There is a notification when the content is distributed successfully.

The Distribute Content Wizard comple	ted successfully
Details:	
Content (1): • SSM Script	
Collections (0):	
Distribution point groups (0):	
Distribution points (1):	

Adding an HP SSM application to a task sequence for HP updates deployment

The following procedure assumes that the target device already has a full operating system, the SCCM client agent, and necessary drivers, such as network drivers, installed.

An SCCM-managed device should have the client agent installed. See the following figure.

Assets and Compliance	< Devic	es 9 items			
4 💻 Overview	Sean	sh	10		1
👌 Users	lcon	Name	Client	Site Code	Client Activity
Pevices	A	6300SFF	Yes	TST	Active
🛃 User Collections	(F	810G1	No		

- 1. Create a task sequence.
- 2. Right-click the newly created task sequence, and then select **Edit**.
- 3. Click Add > General > Install Package.

			Win7 SP	1 x64 T	ask Seq	
Add - Remove		🛃 🖓	Properties	Options]	
New Group		n	Type:		Grou	
General	►	Run	Command	Line		
Disks	•	Run	PowerShell	Script		
User State	•	Set Dynamic Variables				
Images	•	Install Application				
Drivers	•	Install Package				
Settings	۲	Install Software Updates				
HP Client Tasks	٠	Join Domain or Workgroup				
		Connect to Network Folder				
		Restart Computer				
		Set Task Sequence Variable				
		Che	ck Readines	s		

4. Select the HP SSM package created in Creating an SSM package and name this step appropriately.

Deploy SSM ap	plication to install I	HP updates Task Sequence Editor 🛛 🗕 🗖 🗙
Add - Remove 1	Properties Options	
Deploy SSM apps to install HP updates	Type:	Install Package
	Name:	Deploy SSM apps to install HP updates
	Description:	<u></u>
		×
	 Install a single software pair 	rare package
	Package: HP S	SM Script US Browse
	Program: SSM	bat
	 Install software pace 	kages according to dynamic variable list
	The list of software par with a common base n contain a package ID	kages to install consists of a series of task sequence variables ame plus a numeric suffix starting at 001. Each variable must and program name separated by a colon.
	Base variable name:	
	If installation of a so	ftware package fails, continue installing other packages in the list
< III >		
		OK Cancel Apply

5. Click **Apply**, and then click **OK** to close the task sequence.

The task sequence is ready to be deployed.

Note

HP recommends selecting the **Download all content locally before starting task sequence** option for deployment.

*	Deploy Software Wizard
Distribution Poin	nts
General Deployment Settings Scheduling User Experience	Specify how to run the content for this program Specify how clients interact with the distribution points to retrieve content from packages referred by the task
Alerts	sequence:
Distribution Points	Deployment options:
Progress Completion	Clients will always try to get content from the local distribution points. In addition, interaction with remote distribution points can be controlled: When no local distribution point is available, use a remote distribution point. When this content is not available on any preferred distribution points, you can allow the client to use a fallback source location for content. Allow clients to use a fallback source location for content
	A network access account is required to access content from Windows PE.
	< Previous Next > Summary Cancel

Adding an HP SSM application to an operating-system-deployment task sequence for HP updates deployment If you wish to use HP SSM to install additional SoftPaq with a bare-metal deployment, the task sequence will look similar to the following figure.

Note

HP recommends listing the SSM package task after the setup operating system task. See Creating a package and deploying .NET Framework 4.5.

Add - Remove	1) (i	Properties	Options			
Install Operating System		Type:		Install Package		
Partition Disk 0 - BIOS	Name:		SSM package to install remaining drivers			
 Parttion Disk 0 - UEFI Apply Operating System HP Elte/Zbook 7x/8x G2 Apply Windows Settings 	Descripti	on:			~	
Apply Network Settings Setup Operating System Setup Windows and Conf Application installs	figuration	 Instal Select th 	l a single s e software	oftware package package to install		
SSM package to install re	maining d	Package	e H	P SSM Script US		Browse
		Program	s	SM.bat	~	

Creating a package and deploying .NET Framework 4.5 (optional)

It is not uncommon for a SoftPaq or application to need a different version of .NET Framework. If necessary to ensure maximum compatibility, deploy .NET 4.5 using this task. HP recommends inserting this task before the SSM task.

To create a .NET framework:

- 1. Download the .NET Framework 4.5 offline installer from Microsoft at http://go.microsoft.com/fwlink/?LinkId=225702.
- 2. Copy this download to its own folder, either on the SCCM network share or a local folder.
- 3. Go to <u>https://msdn.microsoft.com</u> and use the website's search function to find and open the article .*NET Framework Deployment Guide for Administrators*.
- 4. Complete the steps under the article section *Create a package and program for the .NET Framework redistributable package.*

To distribute the .NET framework 4.5 package:

Right click the newly created .NET framework 4.5 package and select **Distribute Content**.
 Microsoft Packages 1 items

Search			
Icon Name		*	Programs
.Net Framewo	<u>rb 4 5</u>		1
	🎭	Manage Access Accounts	
	1	Create Prestaged Content File	
	to	Create Program	
	*	Export	
	Q	Refresh	F5
	×	Delete	Delete
	•	Deploy	
	5	Distribute Content	
.Net Framework 4.	1	Update Distribution Points	
	2	Move	
Package Properties	8	Set Security Scopes	
Package ID: Manufacturer:	Ē	Properties	

- 2. Select the distribution point.
- 3. There is a notification when the distribution completes successfully.

Deploying HP updates using HP SDM and HP SSM with no management console

This method is useful for small companies that do not have SCCM infrastructure or another management console setup.

If you haven't already, create an SSM batch file (SSM.bat) as described in <u>Creating an SSM batch file</u>, and then copy the batch file to a path on the local hard drive of the target device (such as c:\Script\SSM.bat).

To creat a scheduled task:

- 1. On the targeted device, select **Control Panel** > **Administrative Tools** > **Task Scheduler**.
- 2. Expand Task Scheduler Library.
- 3. Right-click Task Scheduler Library, and then click Create Basic Task.

()					Task Scheduler		- 🗆 🗙
File Actio	n View Help						
🗢 🔿 🖄	1 🖬 🛛 🗖						
Task Sch	eduler (Local) Scheduler Librar	Name	Status	Trigg	ers	^	Actions
	Scheduler Librar	Create Basic T	ask		PM on 2/3/2015		Task Scheduler Library
		Create Task			on of any user		Create Basic Task
		Import Task			le triggers defined		🐌 Create Task
		Display All Ru	nning Tasks		AM every day - After triggered, repeat every 1 hour for PM every day	2	Import Task
		Disable All Tas	ks History		0 AM every Tuesday of every week, starting 6/9/2015		Display All Running Tasks
		New Folder			7 PM every day		Disable All Tasks History

4. In the **Name** and **Description** boxes, enter the appropriate name and description.

	Create Basic Task V	/izard	×
Create a Basic	isk		
Create a Basic Task Trigger	Use this wizard to quickly schedule a co such as multiple task actions or trigger	ommon task. For more advanced options s, use the Create Task command in the Act	or settings tions pane.
Action	Name: Run SSM.bat to install H	P updates	
Finish	Description:		
		< Back Next >	Cancel

- 5. Select the appropriate schedule: Daily, Weekly, Monthly, One time (and then enter the time to start the task), When the computer starts, When I log on, or When a specific event is logged.
- 6. Select the action for the task to perform. For example, select **Start a program**.

	Create Basic Task Wizard	×
Oction		
Create a Basic Task Trigger Daily	What action do you want the task to perform?	
Action	 Start a program 	
Finish	 Send an e-mail (deprecated) 	
	 Display a message (deprecated) 	

- 7. Browse to the SSM.bat file.
- 8. Select **Open the Properties dialog for this task when I click Finish** to modify the settings.
- 9. Click Finish. The properties screen is displayed.
- 10. On each tab, modify the settings as desired.
- 11. Click **OK** to close.

Appendix A: Installing the HP MIK for Configuration Manager 2012 R2 or higher

- 1. Go to <u>http://ftp.hp.com/pub/caps-softpag/cmit/HP_CIKHPMIK.html</u> and download the SoftPag for the latest version of HP MIK for Configuration Manager 2012 R2 or higher to either the primary site server or a system running the Configuration Manager console.
- 2. Double-click the .exe file and follow the on-screen instructions to complete the installation.

Appendix B: Using HP SDM

HP SDM is a powerful tool used to locate and download and manage drivers specific to HP. HP SDM can make driver management easier.

Installing and setting up HP SDM

- 1. On your SCCM server or any system within the same network, download the HP SDM installer at http://ftp.hp.com/pub/caps-softpaq/HP_SDM_Setup.exe.
- Create a new shared folder for your downloaded SoftPaqs and the HP SSM files. For example, if installing HP SDM on a Win81x64 device, you might create the folder <\\Win81x64\SSMFS>. This path is used in all figures for this procedure.

File	Home	Share	View	
\odot	→ ↑	🌉 \\Win8	1x64\SSMFS	
🚖 Fav	orites		Name	*

- 3. Run the installer.
- 4. When prompted, select Show software for all supported models. If already in HP SDM, select Show All Products.

۷	HP SoftPaq Download Manager	×
HP S for H	SDM is an efficient way of obtaining software and drivers IP business computer models.	
0	 Check software updates for this model. Show software for this model only. 	
0	Show software for all supported models.	
	Do not show this again	
	ОК]

- 5. Go to Tools > Configuration Options.
- 6. Click the **Download** tab and change the location to the SSM share created earlier.
- 7. On the **OS Filter** tab, select any operating systems that you want to support.
- 8. On the Language Filter tab, select any language versions that you want to support.
- 9. Click **OK**.

Downloading required SoftPaqs

You can use HP SDM to download SoftPags for updating target devices.

1. After the Configuration Options have been set, in the Product Catalog, verify that HP SDM has **Show All Products** selected.



Note

Only SoftPaqs that are marked as HP SSM compliant are added to the HP SSM database. To help with the selection process, you can have HP SDM select all HP SSM-compliant SoftPaqs by selecting **Select SoftPaqs** > **Auto-Installable (SSM-Compliant)**.

Available SoftPaqs		
S Select SoftPaqs 👻 Search for hardware ID	æ,	
😢 Critical		Version
▲ Critical/Recommended		1.7.42.0 A 1
📀 All	8.1	1.1.1.4
Auto Installable (SSM-Compliant)		6.0.20.708 A 1
	DP) Hub Firmware	2.27.000 A 1
S None		7.6.56275.0 A 1
HP 3005pr USB 3.0 Port Replicator Driver		7.6.56275.0 A 1
HP 3D DriveGuard Software		6.0.23.1 A 1
HP BIOS Config Utility (BCU)		4.0 11 1
HP BIOS Config Utility (BCU)		4.0 11 1
HP Client Security Manager		8.3.7.1864 A 1
HP Computrace		8.3.0.8 A 1

4. Click Show Latest SoftPaqs.



5. Select Download Only.

Download Download Only -	
Name Version Priority Category Size (KB) Date Released Auto Installable Soft P	aq #

6. When the download finishes, click **Update CVA Files** to download the latest CVA files.

🚱 Update CVA Files 🔚 Explore	•

7. To quickly view a SoftPaq CVA file, right-click the downloaded SoftPaq and select View SoftPaq CVA.

Name	Version	Priority	Cat	Size (K	Date Rel	S.,	S	Soft	D	
P Notebook System BIOS Update	01.21 A 1	Critical	BIOS	13,299	2014-08-18		Yes	68295		View SoftPaq Release Notes
										View SoftPaq CVA
										Install SoftPaq
								L	_	Copy SoftPaq To Directory

8. To quickly review the contents of the file store, in the Download SoftPaqs window, select **Explore**.

Dov	vnload l	Download	Only -			GL	Ipdat	te CVA Files 🔤 Explore
Name	Version	Category	Date Released	SoftPag #	Priority	Selected Supported M		Download Directory Unpack Directory
								onpack Directory

To use HP SDM to download an HP driver pack for operating system deployment:

- 1. Repeat steps 1–4 of the previous procedure to show the latest SoftPaqs.
- 2. Select the driver pack for your system.

HP Computrace
HP Device Access Manager
HP Drive Encryption Software
✓ HP Elite/ZBook 7x/8x G2 Win8.1 x64 Driver Pack
HP File Sanitizer
HP Gobi 4G Drivers
HP Hotkey Support
HP hs3110 Mobile Broadband Module Firmware

- 3. When the download finishes, right-click the downloaded SoftPaq and select View SoftPaq Release Notes.
- 4. The SoftPaq release notes provide necessary information about the downloaded SoftPaq. In this example, there are couple of sections of information to concentrate on.
 - Supported hardware models

HP EliteBook 840 G2 Notebook PC HP EliteBook 740 G2 Notebook PC HP EliteBook 850 G2 Notebook PC HP EliteBook 750 G2 Notebook PC HP ZBook 14 G2 Mobile Workstation HP ZBook 15u G2 Mobile Workstation HP EliteBook 820 G2 Notebook PC HP EliteBook 720 G2 Notebook PC

- Drivers that are provided in the SoftPaq

ENHANCEMENTS:

Provides the following drivers:

Intel I217LM/V and I218LM Gigabit Ethernet Driver, version 19.5 Intel 7260/3160 Wireless LAN Driver, version 17.13.0.9 Synaptics Mouse Driver, version 18.1.37.3 Alcor Micro Smart Card Reader Driver, version 1.7.42.0 Intel Video Driver and Control Panel, version 15.36.3995 AMD HG Video Driver, version 14.301.1002.1004 Synaptics WBF Fingerprint Driver, version 4.5.265.0 Realtek USB and PCIe Media Card Reader Drivers, version 6.3.273.49 NXP NFC NPC100 Proximity Drivers, version 3.7650.10422.30 Intel Rapid Storage Technology Driver (64-bit), version 13.2.0.1016 Intel Management Engine Components Driver, version 10.0.30.1072 Intel Chipset Installation Utility, version 10 10.0.22 HP Universal Camera Driver, version 2014 1.12 HP 3D DriveGuard, version 6.0.23.1 Realtek HD Audio Driver, version 2014 6.0.1.7383 HP Wireless Button Driver, version 1.1.2.1 HP lt4211 Gobi 4G Drivers, version 1.1.0.39 HP lt4211 Gobi 4G Drivers, version 1.1.0.39 HP lt4112 Gobi 4G Drivers, version 12.1803.5.2 HP hs3110/hs3114 Mobile Broadband Drivers, version 12.1803.2.4

- Drivers that are not provided in the SoftPaq.

NOTES:

- A Bluetooth driver is not included. Please visit the product download page on www.hp.com to install the Bluetooth driver.

- Verify that the Microsoft SCCM environment has all cumulative updates installed. Issue may be encountered if the environment is not up to date.

- A fingerprint driver is included for Windows security authentication only. For full use of HP Client Security Manager, download and install the full setup package found on the products software download page.

HP recommends downloading the additional driver SoftPags referenced in the CVA file or release notes, such as Bluetooth, fingerprint reader, and any others. HP also recommends downloading any BIOS updates for the systems you include in your task.

Appendix C: Installing and configuring HP SSM

HP SSM is a powerful way to handle drivers that must be installed as full executables. HP SSM, when run on a device system, searches a network share to find available executables and then install them silently on the client system. By using HP SSM, an administrator can execute a single application on the target device to install several different SoftPaqs in an imaging task. In addition, HP SSM uses the CVA files for SoftPaqs and WMI queries on the devices to figure out exactly which SoftPaqs should be installed on a given system. This allows an administrator to support a broad range of HP systems with a single task-equence steps.

Because of this flexibility, HP SSM is the preferred method for handling .exe based drivers in an imaging task. Additionally, HP SSM is an excellent way to handle graphics drivers for your workstation deployments, because graphics drivers that HP releases are HP SSM compliant and often work better with their application component installed.

Installing HP SSM

- 1. Go to http://ftp.hp.com/pub/caps-softpaq/cmit/HP_SSM.html, and then download and install latest version of HP SSM.
- 2. Navigate to <C:\Program Files (x86)\Hewlett-Packard\System Software Manager>.

🔄 🌛 👻 🕆 🕌 C:\P	rogram F	iles (x86)\Hewlett-Packard\System Software	e Manager		✓ ♂ Searc
📑 e <mark>\$ (</mark> ngmtv) (M)	^	Name	Date modified	Туре	Size
Desktop		🗃 SSM Release Document	4/10/2015 10:10 AM	Internet Shortcut	1 KB
THE DO		🗃 SSM Users Guide	4/10/2015 10:10 AM	Internet Shortcut	1 KB
P This PC		🖻 ssm.cab	4/10/2015 10:12 AM	CAB File	9,611 KB
Desktop		🏟 SSM.exe	4/10/2015 10:14 AM	Application	2,956 KB

3. Copy SSM.exe and ssm.cab to the shared folder where you downloaded the SoftPaqs using HP SDM.

Running SSM.exe in Administrative Mode

- 1. After you install HP SSM, double-click **SSM.exe** from the shared folder containing the downloaded SoftPaqs.
- 2. Accept the licensing agreement.
- 3. Verify that the share information is properly autopopulated.

Þ	HP System Software Manager						
Location for software updates (File Store)							
The File Store directory is a local or shared directory that contains SoftPaqs. A custom name for the directory can be entered in the Share Name field.							
	Note: Please ensure all SoftPaqs and other software update files have been copied into the File Store directory						
Note: Please e into the File St	ensure all SoftPaqs and other software update files have been copied ore directory.						
Note: Please e into the File St File store	ensure all SoftPaqs and other software update files have been copied ore directory.						
Note: Please e into the File St File store C:\SSMFS	ensure all SoftPaqs and other software update files have been copied ore directory. Browse						
Note: Please e into the File St File store C:\SSMFS Share name	ensure all SoftPaqs and other software update files have been copied ore directory. Browse						

4. Configure the advanced client options.

Note

There is a second share called SSMLogs for logging.

()	HP System Software Manager						
Advanced client options							
🗆 Reboot clie	ent upon completion of updates						
 Display up 	date status bar on client system						
Force clier	nt systems to update						
Create cer	ntralized logfile share						
Logfile dire	ectory						
C:\SSML	Browse						
Share Nan	Share Name						
SSMLOG	S						

5. Optionally, create an encrypted BIOS password file. A setup password step is required if the device system has a BIOS setup password and the BIOS needs to be updated. Select **Launch** to display the HPQPswd dialog and create an encrypted password.

HP Sys	tem Software Manager
BIOS setup password	HPQPswd 2013
You can choose a BIOS setup pas encrypted version of the BIOS set	This utility encrypts the BIOS Setup password and stores it in a file which can be provided to a BIOS under the utility in the construction of the stores of
 SSM will not set, change, or r If a BIOS setup password is s REQUIRED to update the BIC An encrypted password file c 	Password to be encrypted
Launch password encryption	Re-enter Password
Password file	File to save encrypted password Browse
	About OK Cancel
	< Back Next > Cance

- A. Enter the **Password to be encrypted**. For example, P@ssw0rd1234.
- B. Select **Browse**, and then browse to the local HP SSM file store and save the encrypted password bin file.

Note

You can name the password bin file anything.

HPQPswd 2013	×						
This utility encrypts the BIOS Setup password and stores it in a file which can be provided to a BIOS update utility via the /p command-line switch.							
Password to be encrypted							

Re-enter Password							
File to save encrypted password							
C:\SSMFS\P@ssw0rd1234.bin	se)						

6. Select **Browse**, and then browse to the P@ssw0rd1234.bin file you just created.

P	HP System Software Manager
BIOS setu	p password
You can o encrypteo	choose a BIOS setup password file for your clients. This file is an d version of the BIOS setup password.
• SSM • If a E REG • An e	will not set, change, or remove the BIOS setup password. BIOS setup password is set, then an encrypted password file is AUIRED to update the BIOS. ncrypted password file can be created using the Launch button.
Launch	n password encryption ch
Passw	
0.155	Browse

7. Verify the operations to be performed.

Note

The password is not set via SSM, but via HP BIOS Configuration Utility tool in the SCCM task sequence.

	HP System Software Manager
mmary	
Below is a s	ummary of operations that will be performed.
- A data file - Setup Pas - Displays u - Creates co - Builds the	named SSM.BIN will be created in file store. sword will be encrypted into data file. pdate status bar on client system. entralized logfile share at \\ WIN81x64 \SSMLOGS\ (C:\SSMLogs). Database in file store (C:\SSMFS).

Check ftp.hp.com for CVA file updates.

9. When the **Building database** bar is completely green, click **Finish**.

Note

8.

The target devices need access to the file store containing the SoftPaqs to run HP SSM properly. HP SSM tries to create the share automatically; however, this might not work in certain cases, such as domain settings or when the share is located on another computer. You might need to share and/or change the settings of the target folder manually.

Each time a new version of HP SSM is installed or new SoftPaqs, directories, or subdirectories are added or deleted from the File Store, the database must be rebuilt.

0	HP System Software Manager
Software up	date database
Building the begin the b	e database can take several minutes. Click on the Build Database button uild.
Building da	tabase Build Database
Check f	p.hp.com for CVA file updates.
The SoftPa support for download r	q description (.CVA) file is sometimes updated on ftp.hp.com to add new systems or fix minor problems. Use this option to automatically rewer files.
	/ Dark Erich

Appendix D: Configuring the Set BIOS Configuration task step

The Set BIOS Configuration (Input File) task step allows you to configure BIOS settings on platforms managed by HP. This Run Command Line task uses the HP Client BIOS Configuration Utility package.

Type:	Run Command Line	
<u>N</u> ame:	Set BIOS Configuration (Input File)	
Description:	Configure the system BIOS of the client. Please refer to HP Client Integration Kit for SCCM 2012 User Guide for details.	^ ~
Command line:		
RunBCU.cmd		~
		~
✓ Package: HP Client BIO:	6 Configuration Utility 4.1.13.1 Browse	
<u>Package:</u> <u>HP Client BIO</u> Time-o <u>u</u> t (minu Run this step a	Configuration Utility 4.1.13.1 Browse tes): 15	
 Package: HP Client BIOS Time-out (minu Run this step a Account: 	S Configuration Utility 4.1.13.1 Browse tes): 15 🗘 s the following account	
 <u>Package:</u> HP Client BIO: Time-out (minu Run this step a Agcount:	B Configuration Utility 4.1.13.1 Browse tes): 15 \$ s the following account Set	
 <u>Package:</u> <u>HP Client BIO:</u> <u>Time-out</u> (minu <u>Run this step a</u> <u>Agcount:</u> 	B Configuration Utility 4.1.13.1 tes): 15 ↔ s the following account Set	
 <u>Package:</u> HP Client BIO: Time-out (minu Run this step a Account: 	S Configuration Utility 4.1.13.1 tes): 15 ↔ s the following account Set	

Figure 2. HP Client Hardware Configuration Task

Use the following command line to run this task-sequence step:

RunBCU.cmd <parameters to pass to BCU>

This action applies the BIOS settings specified in the selected REPSET file. It can also execute specified command-line options. The batch file calls the appropriate version of BCU, depending on the architecture of the current operating system.

An example REPSET file is included with the package. It is located in the Config folder of the package source folder and named BCUSettingExampleOnly.REPSET. If this REPSET file is used in this task step, enter the command line as follows:

RunBCU.cmd /setconfig:"Config\BCUSettingExampleOnly.REPSET"
/npwdfile:"P@ssw0rd1234.bin"

Note

In the previous example, the P@ssw0rd1234.bin file is in the same location of the repset file.

HP recommends saving the REPSET file in the source folder or subfolder of the package so that it can be easily referenced in the command line.

Adding and editing configuration files

To add a new configuration file, do the following:

- 1. Get the configuration file from the target device.
- 2. Modify the file. Set the values, and then emove settings and values from the configuration file that are not required to be applied through this configuration.
- 3. Find the package source folder location of BCU. The package is typically located in the Software Library. Select **Overview > Application Management > Packages > HP Client Support Packages**.
- 4. Select the source folder location and copy the REPSET file to the folder.
- 5. Update the distribution points so that the REPSET file is made available to the task sequence.

Notes and warnings

Be aware of the following when using this task sequence step:

- If you make changes or add a configuration file to the package folder, be sure to update the HP Client BIOS Configuration Utility package to the distribution points to ensure that the new configuration files are available for the task sequence.
- Reboot the target device to be sure that all BIOS setting changes take effect.

To do this automatically, add a **Restart Computer** task to the task sequence.



- Changing certain BIOS settings might cause a task sequence to fail to complete. Be sure to test the desired BIOS configuration file before deploying the task sequence.
- Certain characters used in BIOS passwords might require special escaping to work properly; for more information, see the HP BIOS Configuration Utility User Guide included with the CIK.

Appendix E: Creating an SCCM device collection for HP devices

Enabling classes in the target device settings

1. In the Configuration Manager console, select Administration > Overview > Client Settings.

- 2. Right-click **Default Client Settings** and select **Properties**.
- 3. Select Hardware Inventory, and then click Set Classes.

	Default Settings		
Background Intelligent Transfer Cloud Services Client Policy Compliance Settings	Default Settings	in the hierarchy, and can be modified by custom settings	
Computer Agent Computer Restart	Specify hardware inventory settings for client of	computers.	
Endpoint Protection	Device Settings		
Hardware Inventory	Enable hardware inventory on clients	Yes 🗸	
Metered Internet Connections Enrollment	Hardware inventory schedule	Occurs every 1 days effective Schedule 2/1/1970 12:00 AM	
Network Access Protection (NAP)	Maximum custom MIF file size (KB)	250 🗘	
Power Management	Hardware inventory classes	Set Classes	٦
Remote Tools	Collect MIF files	None v	
Software Deployment			
Software Inventory			
Software Metering			
Software Updates			
State Messaging			
User and Device Affinity			

- 4. Select the appropriate classes
- 5. Click **OK** to close.

Creating a collection and building a query

- 1. In the Configuration Manager console, select **Assets and Compliance** > **Overview** > **Device Collection**.
- 2. Right-click **Device Collection** and select **Create Device Collection**.
- 3. Enter an appropriate name (such as HP Inc.).
- 4. Click **Browse**, select **Limiting Collection**, and then click **Next**.
- 5. Click Add Rule, and then select Query Rule.
- 6. The Query Rule Properties screen is displayed. Enter an appropriate name, and then click **Edit Query Statement**.

Name:	Hewlett-Packard
	Import Query Statement
Resource class:	System Resource V
	Edit Query Statement
	SMS_R_SYSTEM.ResourceID.SMS_R _SYSTEM.ResourceType.SMS_R_SYS TEM.Name,SMS_R_SYSTEM.SMSUniq ueldentifier,SMS_R_SYSTEM.Resource
Configuration Man. Instrumentation (W database.	ager 2012 uses the Windows Management MI) Query Language (WQL) to query the site

7. A new screen is displayed. On the Criteria tab, click the **New** icon.

HP Clients Query Statement Properties
General Criteria Joins
You can specify criteria to narrow the query and limit the results that are returned.
Criteria:
BaseBoard.Manufacturer is equal to "Hewlett-Packard"
Show Query Language OK Cancel

- 8. On the Criterion Properties screen, under Criterion Type, select **Simple value**.
- 9. Click **Select the Attribute**, and then enter the following:
 - A. Under Attribute class, select BaseBoard.
 - B. Under Alias as, select <No Alias>.
 - C. Under **Attribute**, select **Manufacuter**.

Criterion Type:	Simple value 🗸
Where:	BaseBoard - Manufacturer
	Select
Operator:	la equata
	Select Attribute
Attribute clas	ss: BaseBoard
Aliza za:	<no alias=""></no>
Alida da.	

10. Select Value, enter the appropriate information, and then select OK.

Criterion	Properties	
Criterion Type:	Simple value	
Where:	BaseBoard - Manufacturer	
		Select
Operator:	is equal to	
Value:	Hewlett-Packard	
	Type: String	Value

11. Click **Show Query Language** to view the actual query language. This can be useful for scripting, because much of this can be done via PowerShell.

	Query Rule Properties
General	
Name:	Query Statement Properties
Resource class:	Query Language You can directly edit the query statement in WQL
Query Statement:	Query Statement:
Configuration f Instrumentation database.	select * from SMS_R_System inner join SMS_G_System_BASEBOARD on SMS_G_System_BASEBOARD.ResourceId = SMS_R_System_ResourceId where SMS_G_System_BASEBOARD.Manufacturer = "Hewlett-Packard"
	×
	Show Query Design OK Cancel

By creating this query, you can deploy an operating system, an update, or software package to a custom HP Inc. (or whatever name you entered) limiting collection.

For more information

For the latest downloads and documentation for Client Management Solutions, go to <u>http://www.hp.com/go/clientmanagement</u>. This includes the following products:

- HP BIOS Configuration Utility (BCU)
- HP Client Integration Kit (CIK)
- HP SoftPaq Download Manager (SDM)
- HP System Software Manager (SSM)
- Driver packs

To download the latest version of HP Client Updates Catalog, go to <u>ftp://ftp.hp.com/pub/softlib/software/sms_catalog/HpCatalogForSms.latest.cab</u>.

To read more about SCCM, go to <u>http://www.microsoft.com/systemcenter</u>.

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