

Unattended Deployment of Microsoft[®] Windows[®] on HP Business-Class Products with Microsoft SCCM 2007

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Executive Summary

This technical whitepaper describes the procedure for using the Microsoft System Center Configuration Manager (SCCM) 2007 during the unattended installation of Microsoft Windows and the deployment of an HP Driver Pack on HP business-class products.

Introduction

Managing operating system images and hardware driver configurations has become a key activity for IT professionals. In enterprise environments, it can be a complex and time-consuming process, as an IT professional needs to:

- Manually select the appropriate hardware drivers for the remote imaging environment
- Deploy the drivers to the correct set of systems for keeping the environment stable and reliable

Microsoft SCCM 2007 provides a solution to help IT professionals deploy Microsoft Windows with HP qualified drivers. This tool streamlines operating system deployments (OSD) and simplifies the client management process.

Microsoft SCCM 2007 provides a common console with the comprehensive tools and guidance needed to efficiently manage the deployment of Microsoft Windows, ensuring that the desired software, drivers, and operating system updates and patches are installed.

HP Driver Pack Overview

An HP Driver Pack contains the hardware-enabling drivers necessary for each PC model. It is structured for the unattended installation of operating system images on HP client systems.

After downloading an HP Driver Pack, you can double-click it to extract its contents into a similar folder structure to the one shown in the following diagram:

🗆 🍌 dt8200_1.01
🗆 🌗 x86_win7
🖃 퉲 driver - audio
🖂 퉲 realtek
🕀 🌗 sp54099
🗆 퉲 driver - chipset
🖂 퉲 intel
🕀 🌗 sp50888
🖃 퉲 driver - graphics
🕀 🌗 amd
🗉 🌗 intel
🕀 🌗 nvidia
🗆 퉲 driver - network
🕀 🌗 broadcom
🗉 🌗 intel
🕀 🌗 ralink
🖃 퉲 driver - storage
🗉 🌗 intel
🖃 퉲 software - system management
🗉 🌗 intel

Figure 1 - HP Driver Pack folder structure

The HP Driver Pack above contains the necessary drivers for the HP 8200 desktop family.

Note:

The associated applications are not installed with HP Driver Pack.

Level	Short Description	Naming Convention	Example
1	Business segment and product or product family and revision # of the current pack	Convention: <business segment>_<product or<br="">product series>_<major revision>.<minor revision=""> dt is used for desktops, nb for notebooks, wk for workstations</minor></major </product></business 	dt_8100_1.01 dt_dc7800_2.02 nb_xx60-xx65_3.01 wk_z600_4.01
2	Operating system and architecture	Convention: <architecture>_<os short<br="">name> x86 is used for 32-bit architecture and x64 for 64-bit architecture.</os></architecture>	x64_win7
3	Category	A category description for the driver	driver - graphics
4	Vendor	Driver vendor name	intel amd
5	SoftPaq number	The same as the SoftPaq number if the drivers were downloaded individually from the HP website	sp <number></number>

Below is the description of the directory structure in the HP Driver Pack:

Benefits

- Microsoft SCCM 2007 is an improved OS deployment experience with shortened image deployment timelines
- Each HP Driver Pack is structured for the OSD of Windows

Before You Begin

Have the following items before you begin the Microsoft SCCM 2007 operating system and driver deployment process:

- Microsoft SCCM 2007 Management Console installed and connected to the network. For more information on installing SCCM 2007, visit Microsoft's website at <u>http://technet.microsoft.com/en-us/library/bb680397.aspx</u>.
- A basic understanding of PXE configuration and OSD using Microsoft ConfigMgr 2007. For more information on OSD in Microsoft ConfigMgr 2007, visit Microsoft's website at <u>http://technet.microsoft.com/en-</u> us/library/bb632767.aspx.
- Either a Windows OS image provided by Microsoft or a custom image created by your company
- An HP Driver Pack for each managed HP client system

Deploying Microsoft Windows 7 Utilizing Microsoft SCCM 2007 and an HP Driver Pack

The Configuration Manager 2007 console (ConfigMgr 2007) is the primary interface in Microsoft SCCM 2007 for change and configuration management for the Microsoft platform. The following sections describe how to use Microsoft ConfigMgr 2007 to deploy Microsoft Windows and HP drivers on HP business-class products. HP system applicable drivers are delivered in a single package called the HP Driver Pack in order to simplify the OSD process. HP Driver Packs are available on the HP website at http://www.hp.com/support.

Importing WinPE Drivers to a Boot Image

To deploy Microsoft Windows on a system, ConfigMgr 2007 requires that Windows-based storage and network drivers are added to the WinPE boot image, a Windows Pre-installation Environment boot image. This paper uses the WinPE 3.0 drivers downloaded from the HP website at <u>http://www.hp.com/support</u>. After downloading the WinPE Driver Pack, perform the following steps to import the drivers into the WinPE boot image in ConfigMgr 2007: 1. Double-click the WinPE Driver Pack to extract its contents into the folder structure shown in the following diagram:



Figure 2 - Extracted WinPE SoftPaq folder structure

- 2. In the Configuration Manager Console tree pane, expand **Site Database -> Computer Management -> Operating System Deployment**.
- 3. Right-click **Drivers**, and select **Import**.
- 4. On the "Locate Driver" screen of the wizard, select the location of the extracted WinPE SoftPaq (e.g. \\sccmserver\WinPE\x86).

Import New Driver Wizard			×
Locate Driver			
Locate Driver			
Driver Details	This wizard allows you to given network path or so	import one or more drivers. You can let ConfigMgr becify a specific driver to import.	find all drivers in the
Add Driver to Packages			
Add Driver to Boot Images	G transfel diseasing	he fellewise extended to the filler)	
Summary	 Import all onvers in t 	ne following network path (UNC)	
Progress	Source folder:	\\Janisccm\OSDData\WinPE\x86	Browse
Confirmation	-		
	C Import a specific driv	er by specifying the network path (UNC) to its .inf	or txtsetup.oem file
	Sgurce:	[Browse

Figure 3 - Importing the WinPE drivers

 Click Next until you get to the "Add Driver to Boot Images" screen of the wizard. 6. On the "Add Driver to Boot Images" screen of the wizard, select the boot image of the WinPE architecture you want to use (e.g. x86), and click to select the check box **Update distribution points when finished**.

Import New Driver Wizard			×
Add Driver to Boot I	Images		
Locate Driver Driver Details Add Driver to Packages Add Driver to Boot Images Summary	This is a network or mass stora be refreshed on distribution po Select the images to add the d	uge driver and might be critical for a system ints before the new drivers will be available river to.	to boot. Boot images must a.
Progress	Name	Package ID	Select All
commutor	Boot image (x64)	TST00002	Clear All
	Boot image (x86)	TST00001	
	☑ Update distribution points v	vhen finished.	
<[< Previous Next >	<u>F</u> inish Cancel

Figure 4 - Boot image selection

- 7. Click Finish.
- Repeat steps 2 through 7 to add the x64 WinPE drivers to the x64 boot image. Your boot images now contain all of the network and mass storage drivers for the supported HP business-class products.

Important:

Regardless of the architecture of the Windows OS being deployed, it is IMPERATIVE that BOTH the x86 and x64 boot images are on BOTH a standard Distribution Point and the SMSPXEIMAGES\$ Distribution Point.

Note:

You only need to import the WinPE drivers to the driver library. You do not need to store them again in a separate driver package.

For more details about configuring the WinPE boot images, visit the Microsoft website at http://technet.microsoft.com/en-us/library/bb680372.aspx.

Importing the HP Driver Packs

Collecting the Required HP Driver Pack for the Target System

HP Driver Packs must be downloaded for specific HP systems from the HP website at http://www.hp.com/support.

- 1. Click the **Drivers and Software** button, and search for the product name for which you want to download drivers.
- 2. Select the specific operating system to obtain the appropriate drivers. Drivers are contained in a self-extracting package called a SoftPaq.
- 3. Execute the HP Driver Pack SoftPaq to expand it into folder structures needed by ConfigMgr 2007 to import the necessary files for OS deployment.

Note:

The associated applications are not installed with HP Driver Pack.

Adding the HP Driver Pack to ConfigMgr 2007

- 1. In the Configuration Manager Console tree pane, expand Site Database -> Computer Management -> Operating System Deployment.
- 2. Right-click on **Driver Packages**, select **New**, and then select **Driver Package**.
- In the "New Driver Package" dialog box, enter a descriptive name (e.g. HP_8200_ x64_win7), select the top folder of the extracted driver packages, and select the appropriate OS and architecture (e.g. x64_win7). Click OK.
- Update distribution points to ensure the newly created driver packages are available for use by the OS deployment task sequence. For information on updating driver package distribution points, visit the Microsoft website at <u>http://technet.microsoft.com/en-us/library/bb633285.aspx</u>.

Applying the HP Driver Pack to OSD Task Sequences

For details about creating OSD task sequences in ConfigMgr 2007, visit the Microsoft website at http://technet.microsoft.com/en-us/library/bb632767.aspx.

- Expand Computer Management -> Operating System Deployment -> Task Sequences.
- 2. In the right pane, right-click the newly created task sequence and select Edit.
- 3. Highlight the **Apply Operating System** group, and click **Add** at the top left of menu.

 Select **Drivers**, and then select **Apply Driver Package**. The newly added Apply Driver Package group will display below the Apply Operating System group.

Note:

In the Task Sequence Editor, the Apply Driver Package group should be placed after the Apply Operating System group and before the Setup Operating System group.

- 5. Change the name of the new Apply Driver Package step to a useful descriptive name, such as **HP_8200_x64_Win7**.
- 6. Click **Browse** to select the top folder of the extracted driver package containing the drivers to be made available during Windows setup.
- 7. Check the **Do unattended installation of unsigned drivers on versions of Windows where this is allowed** checkbox. This will prevent the unsigned drivers warning dialog.
- 8. In the "Task Sequence Editor" dialog box, click **OK** to save changes to your Deployment Tasks.

Deploying Windows 7 to Target Systems

- To deploy Windows 7 to your target system, right-click on your Task Sequence and select Advertise.
- 2. Follow the instructions in the New Advertisement Wizard.

For mandatory PXE advertisements, the computer will automatically boot using PXE.

A successful PXE boot will look like this:

Argon PXE Boot Agent v2.00 (BIOS Integrated) (C) Copyright 2004 Argon Technology Corporation All rights reserved. www.ArgonTechnology.com
CLIENT MAC ADDR: 00 03 FF 6F 7D 76 GUID: 5809CEA8-8212-4247-95F4-AE010DD4AB7C CLIENT IP: 192.168.3.2 MASK: 255.255.255.0 DHCP IP: 192.168.3.1
Downloaded WDSNBP
Architecture: x86
The details below show the information relating to the PXE boot request for this computer. Please provide these details to your Windows Deployment Services Administrator so that this request can be approved.
Pending Request ID: 20
Contacting Server: 192.168.3.1.

Figure 5 – Successful PXE boot screen

Deploying Microsoft Windows XP and the HP Mass Storage Driver Using Microsoft SCCM 2007

The automatic deployment of Microsoft Windows XP on managed HP client systems requires the following additional steps in ConfigMgr 2007:

Importing the HP Mass Storage Driver to the Driver Store in ConfigMgr 2007

- 1. In the HP Driver Pack, under the "driver storage" folder, locate the exact mass storage device driver for the target machine.
- 2. In the tree pane of ConfigMgr 2007, expand Site Database -> Computer Management -> Operating System Deployment.
- 3. Right-click **Drivers**, and select **Import**.
- 4. On the "Locate Driver" screen of the wizard, select the source folder containing the Mass Storage driver in the downloaded driver pack.

Import New Driver Wizard		×
Locate Driver		
Locate Driver Driver Details Add Driver to Packages Add Driver to Boot Images Summary Progress Confirmation	This wizard allows you to import one or more drivers. You can let ConfigMgr find all driv given network path or specify a specific driver to import.	ers in the Browse b.oem file Browse
۲ ۲	< <u>P</u> revious Next > ⊟nish	Cancel

Figure 6 – Importing the Mass Storage driver

- 5. Click **Next**.
- On the "Driver Details" screen of the wizard, click the Categories button to add a category to easily find your driver in the driver store, and then click Next.
- 7. On the "Add Driver to Packages" screen of the wizard, click the **New Package** button to create a New Driver Package.

- In the "New Driver Package" dialog box, enter a descriptive name for the driver package (e.g. "HP_6005_mass_storage"), and specify the location of the shared folder containing the Mass Storage driver. Click OK to close the dialog box.
- 9. The "Add Driver to Packages" screen now displays the newly created Driver Package, and its checkbox is checked automatically.

X
1
-
1

Figure 7 - The newly created Mass Storage driver package

- 10. Click Next.
- 11. Select the boot image you want to use. Click **Update distribution points** when finished, and then click **Finish**.
- 12. In the tree pane of ConfigMgr 2007, expand Site Database -> Computer Management -> Operating System Deployment.
- Right-click Driver Package, and select Refresh. The newly created Mass Storage driver package is now displayed.
- 14. Distribute the newly created driver package to a PXE distribution point.

The Mass Storage driver can now be used.

Applying the HP Mass Storage Controller Driver in a Task Sequence

- Navigate to Computer Management -> Operating System Deployment -> Task Sequences.
- 2. In the right pane, right-click your task sequence, and select Edit.

- Highlight the Apply Operating System group. Click Add at the top left of menu.
- Select **Drivers**, and then select **Apply Driver Package**. The newly added Apply Driver Package group will display after the Apply Operating System group.
- 5. Click **Browse**, and select the Mass Storage Controller driver package.
- 6. In the "Properties" tab, check the Select the mass storage driver within the package that needs to be installed before setup on Pre-Vista operating systems check box.

Task Sequence xp32 for 6005 usdt T	ask Sequence Editor	
Add - Remove	Properties Options	
 Install Operating System Restart in Windows PE Partition Disk Apply Operating System Apply Windows Settings Apply Device Drivers Apply Device Drivers Setup Operating System Setup windows and ConfigMgr 	Type: Name: Description: Select the driver pase setup. Driver Package I✓ Select the mass before setup or Driver This device is be Model ☐ Do unattended where this is all	Apply Driver Package Apply Driver Package Apply Driver Package Ckage containing drivers to be made available during Windows HP_6005_mass_storage Browse estorage driver within the package that needs to be installed n Pre-Vista operating systems AMD AHCI Compatible RAID Controller Image: Controller poot-critical for Pre-Vista operating systems. AMD AHCI Compatible RAID Controller-x86 platform Image: Controller-x86 platform installation of unsigned drivers on versions of Windows owed Image: Controller Controller Controller Controller

Figure 8 - Configuring the Apply Driver Package step

7. Choose the Mass Storage driver name and model that apply to your system(s) from the drop-down menus.

Note:

The section "<u>XP Mass Storage Driver Requirements</u>" shows the required XP Mass Storage driver models for the associated BIOS settings on HP systems. If your HP system is not listed in the table, see the following section "<u>Searching for the Mass Storage Driver Model</u>" to determine which Mass Storage driver model to choose from the task sequence drop-down list. 8. In the "Task Sequence Editor" dialog box, click OK to save changes.

Note:

If you want to install multiple mass storage drivers available on your system, you need to create additional "Apply Driver Package" task sequence steps for each mass storage device.

Searching for the Mass Storage Driver Model

If you have a machine pre-built with Windows, run **msinfo32.exe**, and then go to **Components -> Storage -> IDE**. Locate the "Name" entry in the "Item" column. The "Value" column of that entry shows the Mass Storage driver model that should be chosen from the task sequence drop-down list.

Item	Value
Name	Intel(R) Desktop/Workstation/Server Express Chipset SATA AHCI Controller
Manufacturer	Intel
Status	OK
PNP Device ID	PCI\VEN_8086&DEV_1C02&SUBSYS_1494103C&REV_04\3&11583659&0&FA
I/O Port	0x0000F0D0-0x0000F0D7
I/O Port	0x0000F0C0-0x0000F0C3
I/O Port	0x0000F0B0-0x0000F0B7
I/O Port	0x0000F0A0-0x0000F0A3
I/O Port	0x0000F060-0x0000F07F
Memory Address	0xFE425000-0xFE4257FF
IRQ Channel	IRQ 19
Driver	c:\windows\system32\drivers\iastor.sys (10.1.0.1008, 428.52 KB (438,808 bytes

Figure 9 - Searching for the Mass Storage driver model

Creating the "unattend.txt" File

To automate Microsoft Windows XP deployment with little or no intervention needed from end users, you need to create an OS installation answer file called "unattend.txt" and specify the location of that file in your Task Sequence.

For more details on creating the unattend.txt file, visit the Microsoft website at http://support.microsoft.com/kb/155197.

XP Mass Storage Driver Requirements

The following tables show the required XP Mass Storage drivers for the associated BIOS settings on 2011 HP systems:

HP Systems		BIOS Settings for SATA Operation	Driver Name	Driver Model
Desktops				
HP_8200CMT	X86	AHCI	Intel(R) ESB2 SATA AHCI Controller	Intel(R) Desktop/Workstation/Server Express Chipset SATA AHCI Controller
HP_8200USDT	X86	AHCI	Intel(R) ESB2 SATA AHCI Controller	Intel(R) Desktop/Workstation/Server Express Chipset SATA AHCI Controller
HP_8200SFF	X86	AHCI	Intel(R) ESB2 SATA AHCI Controller	Intel(R) Desktop/Workstation/Server Express Chipset SATA AHCI Controller
HP_8200AIO	X86	AHCI	Intel(R) ESB2 SATA AHCI Controller	Intel(R) Desktop/Workstation/Server Express Chipset SATA AHCI Controller
HP_6200SFF	X86	AHCI	Intel(R) ESB2 SATA AHCI Controller	Intel(R) Desktop/Workstation/Server Express Chipset SATA AHCI Controller
HP_6200MT	X86	AHCI	Intel(R) ESB2 SATA AHCI Controller	Intel(R) Desktop/Workstation/Server Express Chipset SATA AHCI Controller
HP_8100CMT	X86	AHCI	Intel(R) ESB2 SATA AHCI Controller	Intel(R) 5 Series/3400 Series SATA AHCI Controller

HP Systems		BIOS Settings for SATA Operation	Driver Name	Driver Model
Laptops				
ProBook 6360b	X86/ X64	AHCI	Intel Rapid Storage Technology Driver	Intel(R) Mobile Express Chipset SATA AHCI Controller
ProBook 6460b	X86/ X64	AHCI	Intel Rapid Storage Technology Driver	Intel(R) Mobile Express Chipset SATA AHCI Controller
ProBook 6560b	X86/ X64	AHCI	Intel Rapid Storage Technology Driver	Intel(R) Mobile Express Chipset SATA AHCI Controller
ProBook 6465b	X86/ X64	AHCI	AMD Advanced Host Controller Interface (AHCI) Driver	AMD SATA AHCI Controller
ProBook 6565b	X86/ X64	AHCI	AMD Advanced Host Controller Interface (AHCI) Driver	AMD SATA AHCI Controller
ProBook 5330m	X86/ X64	AHCI	Intel Rapid Storage Technology Driver	Intel(R) Mobile Express Chipset SATA AHCI Controller
EliteBook 2560p	X86/ X64	AHCI	Intel Rapid Storage Technology Driver	Intel(R) Mobile Express Chipset SATA AHCI Controller
EliteBook 2760p	X86/ X64	AHCI	Intel Rapid Storage Technology Driver	Intel(R) Mobile Express Chipset SATA AHCI Controller

EliteBook 8460p	X86/ X64	AHCI	Intel Rapid Storage Technology Driver	Intel(R) Mobile Express Chipset SATA AHCI Controller
EliteBook 8560p	X86/ X64	AHCI	Intel Rapid Storage Technology Driver	Intel(R) Mobile Express Chipset SATA AHCI Controller
EliteBook 8460w	X86/ X64	AHCI	Intel Rapid Storage Technology Driver	Intel(R) Mobile Express Chipset SATA AHCI Controller
EliteBook 8560w	X86/ X64	AHCI	Intel Rapid Storage Technology Driver	Intel(R) Mobile Express Chipset SATA AHCI Controller
EliteBook 8760w	X86/ X64	AHCI	Intel Rapid Storage Technology Driver	Intel(R) Mobile Express Chipset SATA AHCI Controller

HP Systems		BIOS Settings for SATA Operation	Driver Name	Driver Model
Workstations				
Z210 SFF	X64	Default RAID + AHCI	Intel® ICH7R/DH SATA RAID Controller	Intel [®] Desktop/Workstation/Server Express Chipset SATA RAID Controller
Z210 SFF	X86	Default RAID + AHCI	Intel® ESB2 SATA RAID Controller	Intel [®] Desktop/Workstation/Server Express Chipset SATA RAID Controller
Z210 CMT	X64	Default RAID + AHCI	Intel® ICH7R/DH SATA RAID Controller	Intel [®] Desktop/Workstation/Server Express Chipset SATA RAID Controller

Z210 CMT	X86	Default RAID + AHCI	Intel® ESB2 SATA RAID Controller	Intel® Desktop/Workstation/Server Express Chipset SATA RAID Controller
Z400/z600/ z800	X64	Default RAID + AHCI	Intel® ESB2 SATA RAID Controller	Intel® ICH8R/ICH9R/ICH10R/DO/5 Series/3400 Series SATA RAID Controller
Z400/z600/ z800	X86	Default RAID + AHCI	Intel® ESB2 SATA RAID Controller	Intel® ICH8R/ICH9R/ICH10R/DO/5 Series/3400 Series SATA RAID Controller
LSI_9212	X64	Default RAID + AHCI	LSI Adapter, SAS2 2116 Meteor ROC(E)	LSI Fusion - MPT SAS2 Drive (XP x64)
LSI_9212	X86	Default RAID + AHCI	LSI Adapter, SAS2 2116 Meteor ROC(E)	LSI Fusion - MPT SAS2 Drive (XP x86)
LSI_3041e	X64	Default RAID + AHCI	LSI Adapter, SAS 3000 Series, 4 Port with 1064 - StorPort	LSI Fusion - MPT SAS Drive (XP x64)
LSI_3041e	X86	Default RAID + AHCI	LSI Adapter, SAS 3000 Series, 4 Port with 1064 - StorPort	LSI Fusion - MPT SAS2 Drive (XP x86)
LSI_9620	X64	Default RAID + AHCI	LSI Logic MegaRAID SAS 8408E RAID Controller	LSI MegaRAID SAS RAID Controller Drive (Windows XP)
LSI_9620	X86	Default RAID + AHCI	LSI Logic MegaRAID SAS 8408E RAID Controller	LSI MegaRAID SAS RAID Controller Drive (Windows XP-64)

Additional Resources

For general help, refer to HP support:

<u>http://www.hp.com/support</u>

For more information on using Microsoft SCCM 2007 for OSD:

- Administrator Workflow: PXE Deployment <u>http://technet.microsoft.com/en-us/library/bb693705.aspx</u>
- Planning and Deploying the Server Infrastructure for Configuration Manager 2007

http://technet.microsoft.com/en-us/library/bb680397.aspx

- Overview of Operating System Deployment <u>http://technet.microsoft.com/en-us/library/bb694101.aspx</u>
- How to Deploy Operating System Images to a Computer <u>http://technet.microsoft.com/en-us/library/bb632559.aspx</u>
- How to Deploy an Operating System Image to a New Computer Using Boot Media <u>http://technet.microsoft.com/en-us/library/bb694215.aspx</u>
- How to Deploy an Operating System Image to an Offline Computer <u>http://technet.microsoft.com/en-us/library/bb681017.aspx</u>.
- How to Create Stand-alone Media <u>http://technet.microsoft.com/en-us/library/bb632784.aspx</u>
- How to Create a Computer Association for a Side-by-Side Migration http://technet.microsoft.com/en-us/library/bb680730.aspx
- How to Configure the PXE Service Point <u>http://technet.microsoft.com/en-us/library/bb680668.aspx</u>
- How to Deploy an Operating System Image using PXE <u>http://technet.microsoft.com/en-us/library/bb694069.aspx</u>
- How to Add Windows Drivers to a Boot Image http://technet.microsoft.com/en-us/library/bb680705.aspx
- How to Add a Boot Image to configuration Manager 2007 http://technet.microsoft.com/en-us/library/bb680372.aspx
- Operating System Deployment in Configuration Manager http://technet.microsoft.com/en-us/library/bb632767.aspx



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