

Installing Microsoft Windows on an HP ProBook or EliteBook Notebook PC and creating an image

2011 Business Notebook Models

Technical white paper

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Executive summary

This white paper provides instructions for installing the Microsoft® Windows® 7 Professional, Microsoft Windows XP Professional and Windows Vista® Business operating systems (OSs) along with applicable HP drivers and applications on select HP EliteBook and HP ProBook Notebook PC models. Instructions are also provided for creating a common image for 2011 HP Business Notebook PCs.

Target audience: This white paper is intended for IT staff.

System requirements and prerequisites

Information regarding minimum hardware requirements for the installation of Windows is available at <http://www.microsoft.com>.

Supported models

- HP EliteBook 2560p Notebook PC
- HP EliteBook 2760p Notebook PC
- HP EliteBook 8460p Notebook PC
- HP EliteBook 8460w Notebook PC
- HP EliteBook 8560p Notebook PC
- HP EliteBook 8560w Notebook PC
- HP EliteBook 8760w Notebook PC
- HP ProBook 6360b Notebook PC
- HP ProBook 6460b Notebook PC
- HP ProBook 6560b Notebook PC
- HP ProBook 5330m Notebook PC

WARNING

Before proceeding with the installation of Windows, you should back up all personal data, such as files and images. If it is not backed up, your personal data will be lost.

The following items are needed to install Windows:

- A supported HP business notebook PC model
- Windows OS recovery media provided by HP
 - Media from an alternate source may require a product ID (PID)¹
- Access to Drivers/OS enhancements provided by HP
 - HP SoftPaq Download Manager (www.hp.com/go/sdm)
 - High speed Internet access (www.hp.com)
 - HP Driver Recovery DVD (DRDVD)

¹ Typically provided on the product's Certificate of Authenticity

IMPORTANT

Make sure you have the latest compatible versions of drivers and enhancements (Table 1). In addition, you must have a Microsoft operating system license for each system on which you install Windows XP Professional, Vista Business or Windows 7 Professional. A Vista Business license allows you to use either XP Professional or Vista Business. The Windows 7 Professional license allows you to use Windows 7 Professional, Windows XP Professional or Windows Vista Business.

Installing the OS, drivers, and enhancements

This section provides guidelines for users performing a clean installation of Windows on a supported HP business notebook PC.

For more information on installing Windows, refer to the Microsoft website at <http://windows.microsoft.com/help>.

IMPORTANT

Follow the installation instructions in the order provided. Failure to complete these steps in the proper order can result in an unsuccessful or unstable installation. These instructions are independent of the operating system currently installed on the notebook PC.

1. Depending on the particular Internet connection(s) being used, download the driver(s) for the network interface card and/or wireless LAN adapter driver. Save to a USB storage device or optical media.
 - Contact your network administrator to properly set up the networking components of Windows.
2. Change the boot order in F10 Setup so the optical drive is the first boot device.
3. Boot with the Windows OS recovery disk provided by HP; follow the on-screen instructions for installation.
 - OS recovery media from HP does not require a product ID or key for installation on a supported HP business notebook PC.
 - HP recommends that you retain the HP_TOOLS partition to provide support for HP QuickLook, the F10 Setup graphical user interface, and HP diagnostics. For more information, refer to the white paper, "HP Business Notebook Computer EFI Guidelines."
 - Older Windows XP OS media does not include serial ATA (SATA) drivers. For more information on loading SATA drivers, refer to the white paper, "Modifying a Windows XP installation to support SATA Native Mode on HP Business Notebooks."
 - If using Advanced format hard drives (4K sector drives), please refer to the HP white paper "Preparing Advanced Format hard drives for Microsoft Windows installations on HP Business Notebook PCs and desktop PCs."
4. Install the appropriate communications driver from either the Driver Recovery DVD or USB storage device (Step 1 above) and configure your Internet connection.
 - For Windows XP, install the Microsoft Universal Audio Architecture (UAA) Bus Driver and Essential System Updates, then reboot prior to installing the audio and modem drivers. The audio driver may

require manual installation. (NOTE: The Universal Audio Architecture (UAA) Bus driver is integrated into Service Pack (SP) 3 and does not need to be installed separately).

5. Install the desired patches from www.microsoft.com/windowsupdate or contact your network administrator for additional updates. Reboot the system after these patches have been installed.
 - For Windows XP, you must install Microsoft DirectX 9 and possibly Microsoft .NET Framework. For more information on .NET dependencies, refer to Table 1 below.
6. Install the drivers and enhancements listed in Table 1 using HP SoftPaq Download Manager (available from www.hp.com/go/sdm); alternatively, you can download individual SoftPaqs from the HP website.

For more information, refer to

IMPORTANT

To prevent possible data loss, HP recommends you adjust your power management settings prior to using the notebook.

Drivers and enhancements

Table 1 lists minimum recommended drivers and enhancements for Windows 7 Professional, Windows XP Professional and Vista Business. The table also includes dependencies on .NET Framework (if applicable).

Table 1. Minimum recommended software versions

| Name | Version | XP | Vista | Win 7 | Priority | .NET Required |
|--|---------------------------|----|-------|-------|-------------|--------------------|
| Driver – Audio | | | | | | |
| IDT HD Audio Driver | 6.10.6328.0 | X | X | X | Required | 3.0 |
| Driver – Chipset | | | | | | |
| Intel® Chipset Installation Utility | 9.2.0.1021 | X | X | X | Required | N/A |
| Intel Management Engine Components Driver | 7.1.2.1041 | X | X | X | Required | 3.5 SP1 or greater |
| Renesas USB 3.0 Driver | 2.0.32.0 | X | X | X | Required | N/A |
| Driver - Graphics | | | | | | |
| AMD Video Driver and Control Panel for Windows 7/Vista | 8.821.1.1-110206A-113218C | | X | X | Required | 3.5 SP1 |
| AMD Video Driver and Control Panel for Windows XP | 8.821.1.1-110307A-115133C | X | | | Required | 3.5 SP1 |
| Intel HD Graphics with Turbo Boost Technology | 8.15.10.2342 | | X | X | Required | 3.0 |
| Intel Video Driver and Control Panel for Windows XP | 6.14.10.5337 | X | | | Required | 3.0 |
| NVIDIA Workstation Graphics Driver for Windows 7 | 267.96 | | | X | Required | N/A |
| NVIDIA Workstation Graphics Driver for Vista | 268.09 | | X | | Required | N/A |
| NVIDIA Workstation Graphics Driver for Windows XP | 267.96 | X | | | Required | N/A |
| Driver – Keyboard/Mouse/Input | | | | | | |
| HP Hotkey Support | 4.0.15.1 | X | X | X | Recommended | 3.5 SP1 or greater |

| Name | Version | XP | Vista | Win 7 | Priority | .NET Required |
|--|------------------------|----|-------|-------|----------|--------------------|
| HP Universal Camera Driver | CP5850060 0_CL33412 | X | X | X | Required | N/A |
| Synaptics Touchpad Driver | 15.2.16.5 | X | X | X | Required | N/A |
| Validity Fingerprint Driver | 4.3.126.0 | X | X | X | Required | N/A |
| Driver – Modem | | | | | | |
| LSI HDA Modem Driver for Windows | 2.2.100.0 | X | X | X | Required | N/A |
| Driver - Network | | | | | | |
| Atheros 2011 Wireless LAN Driver | 9.20 | X | X | X | Required | N/A |
| Broadcom 2070 Bluetooth for Windows 7/Vista | 6.3 | X | X | X | Required | 3.0 or greater |
| Broadcom 2070 Bluetooth for Windows XP | 5.6 | X | | | Required | 3.0 or greater |
| Broadcom WLAN Driver and Utility Package | 5.60.401.25 | X | X | X | Required | N/A |
| Ericsson Mobile Broadband Drivers | 6.3.5.3 | X | X | X | Required | N/A |
| Intel 82579LM and 82579V Gigabit Ethernet Driver for Microsoft Windows | 11.8.81.0 | X | X | X | Required | N/A |
| Intel Wireless Drivers | 14.0 | X | X | X | Required | N/A |
| Intel PROSet Extensions | 14.0 | X | X | X | Optional | N/A |
| Sierra Wireless Driver Package for HP un2430 Mobile Broadband Module | 1.0.1.0 | X | X | X | Required | N/A |
| Driver – Storage | | | | | | |
| Alcor Micro Smart Card Reader Driver | 1.7.16.0 | X | X | X | Required | N/A |
| Intel Rapid Storage Technology Driver | 10.1.2.1004 | X | X | X | Required | 3.5 SP1 or greater |
| JMicron Media Card Reader Driver | 1.0.58.0 | X | X | X | Required | N/A |
| Software - OS Enhancements/QFE's | | | | | | |
| Essential System Updates for Microsoft Windows 7 | 1.1 | | | X | Required | N/A |
| Essential System Updates for Microsoft Vista SP2 | 1.1 | | X | | Required | N/A |
| Essential System Updates for Microsoft Windows XP | 4.1 | X | | | Required | N/A |
| Software – Security | | | | | | |

| Name | Version | XP | Vista | Win 7 | Priority | .NET Required |
|---|---|----|-------|-------|-------------|--------------------|
| Embedded Security for HP ProtectTools | 6.0.100.257 2 | X | X | X | Recommended | N/A |
| Privacy Manager for HP ProtectTools | 6.0.0.831 | X | X | X | Recommended | 3.5 SP1 |
| Software - Solutions | | | | | | |
| HP 3D DriveGuard | 4.1.2.1 | | X | X | Required | N/A |
| HP 3D DriveGuard for XP | 1.20.3.1 | X | | | Required | N/A |
| HP Software Framework | 4.0.90.1 | X | X | X | Required | 3.5 SP1 or greater |
| Software – System Management | | | | | | |
| System Default Settings for Windows 7 | 2.1 | | | X | Recommended | N/A |
| System Default Settings for Microsoft Vista | 3.1 | | X | | Recommended | N/A |
| System Default Settings for Windows XP | 6.0.4.2 | X | | | Recommended | N/A |
| Priority Key | | | | | | |
| Required | Mandatory for optimal hardware support | | | | | |
| Recommended | HP recommends installing for optimal system performance | | | | | |
| Optional | Value-add software for desired solution | | | | | |

NOTE

Some deliverables may have direct dependencies on other deliverables that may require .NET.

Building a common image

Instructions are provided for building Windows XP Professional and Windows Vista Business images.

Windows XP Professional

1. Install Windows XP Professional on a supported platform.
2. Install the following and then reboot the system:
 - Essential System Updates for Windows XP
 - System Default Settings
 - Microsoft Universal Audio Architecture (UAA) High Definition Audio class driver (not required for XP SP3)

- Microsoft .NET (refer to Table 1 for .NET version requirements)
- 3. Copy the **i386** folder from the Windows XP installation DVD to the root of **%SystemDrive%**.
- 4. Extract **deploy.cab** from the **SUPPORT\TOOLS** folder of the install DVD to the **%SystemDrive%\sysprep** folder.
- 5. Copy all device drivers to a common folder location (i.e. **%SystemDrive%\DRV**).
- 6. Run **setupmgr.exe** from the **%SystemDrive%\sysprep** folder to create a **sysprep.inf** file.
- 7. As shown in Figure 1, make the following changes to the **sysprep.inf** file.
 - In the [Unattended] section –
 - Change **InstallFilesPath** to **%SystemDrive%\i386**.
 - The **OemPnPDriversPath** should include paths for all **.inf** installed drivers.
 - In the [SetupMgr] section –
 - Change **DistFolder** to **%SystemDrive%\i386**

NOTE

Figure 1 does not show the complete sysprep.inf file.

Figure 1. Updating the sysprep.inf file

```
[Unattended]

OemSkipEula=No

OemPnPDriversPath =
"Drv\Video;Drv\Nic;Drv\Audio;Drv\Modem;Drv\Misc1;Drv\Misc2;Drv\Misc3;Drv\Misc4;Drv\Misc5;Drv
\Chipset;Drv\KED;Drv\MSD;Drv\USB;Drv\Network"

InstallFilesPath = "C:\i386"

[SetupMGR]
DistFolder = c:\i386
```

8. Run the following command:
 - sysprep –mini –shutdown –reseat**
9. After shutting down the system, use hard-drive duplication software to deploy the common image.

Windows Vista Business / Windows 7 Professional

1. Install Windows Vista Business on a supported platform.
2. Install the following and then reboot the system:
 - Essential System Updates for Windows Vista SP2
 - Vista Default Settings
3. Copy all device drivers to the **%SystemDrive%\DRV** folder.
4. Run Windows System Image Manager to create the **sysprep.xml** file.
5. As shown in Figure 2, make the following changes to the **sysprep.xml** file:

- In the Microsoft-Windows-PnpCustomizationsNonWinPE component – Set the PnP driver search path.
- In the Microsoft-Windows-Deployment component – Following the **pass="auditUser"** phase, set **Reseal** in **OOBE** mode.

NOTE

Figure 2 does not show the complete sysprep.xml file.

Figure 2. Example of sysprep.xml file

```
<?xml version="1.0" encoding="utf-8"?>
<unattend xmlns="urn:schemas-microsoft-com:unattend">
  <settings pass="auditSystem">
    <component name="Microsoft-Windows-PnpCustomizationsNonWinPE" processorArchitecture="x86"
publicKeyToken="31bf3856ad364e35" language="neutral" versionScope="nonSxS">

xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
      <DriverPaths>
        <PathAndCredentials wcm:keyValue="dfbfff91" wcm:action="add">
          <Path>C:\Drv</Path>
        </PathAndCredentials>
      </DriverPaths>
    </component>
  </settings>
  <settings pass="auditUser">
    <component name="Microsoft-Windows-Deployment" processorArchitecture="x86"
publicKeyToken="31bf3856ad364e35" language="neutral" versionScope="nonSxS">

xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
      <Reseal>
        <ForceShutdownNow>false</ForceShutdownNow>
        <Mode>OOBE</Mode>
      </Reseal>
    </component>
  </settings>
```

6. Copy **sysprep.xml** to **% SystemDrive%\Windows\System32\Sysprep**.

7. Run the following command:

sysprep /generalize /audit /shutdown /unattend:sysprep.xml

8. After shutting down the system, use hard-drive duplication software to deploy the common image.

Appendix A: Using HP SoftPaq Download Manager

Using HP SoftPaq Download Manager to update the current platform

1. Boot the Windows OS.
2. Open Microsoft Internet Explorer.
3. Download and install HP SoftPaq Download Manager from www.hp.com/go/sdm.
4. Launch SoftPaq Download Manager.
5. When prompted, select **Show software for this model only** (Figure A-1).

NOTE

Use the Check software updates for this model option to automatically install the updates on the current system or to download SoftPaqs to install on systems similar to the current platform.

Figure A-1. SoftPaq Download Manager menu



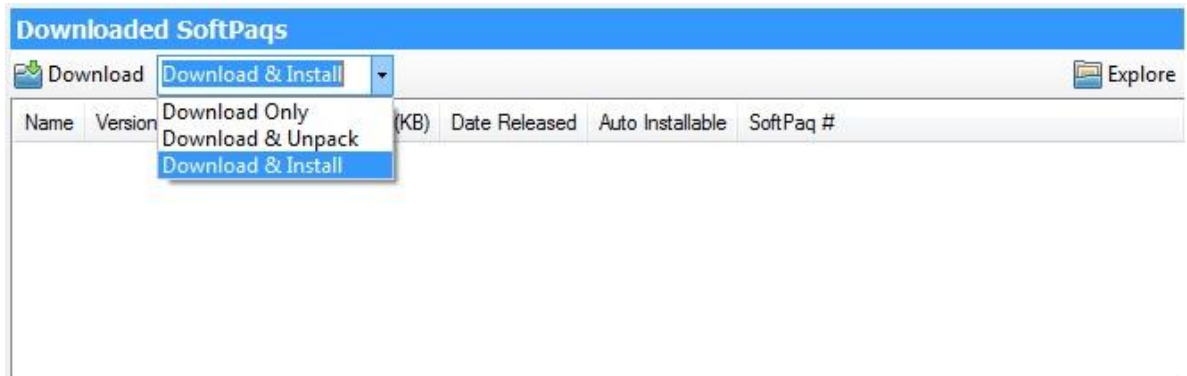
6. The current platform will automatically be displayed and selected in the Product Catalog window.
7. Select the desired SoftPaqs from the Available SoftPaqs list (Figure A-2).

Figure A-2. Available SoftPaqs list



8. After selecting the desired SoftPaqs, the following options are available in the Downloaded SoftPaqs window: **Download Only**, **Download and Unpack** or **Download and Install** (Figure A-3).

Figure A-3. Downloaded SoftPaqs window



- **Download Only** – this option will download all selected SoftPaqs to “C:\ProgramData\HP\HP SoftPaq Download Manger\SWDownload”.
- **Download and Unpack** – this option will download all selected SoftPaqs to “C:\ProgramData\HP\HP SoftPaq Download Manger\SWDownload” and unpack each individual SoftPaq in a unique folder based on SP#: (i.e. \SPxxxx).
- **Download and Install** – this option will download all selected SoftPaqs to “C:\ProgramData\HP\HP SoftPaq Download Manger\SWDownload” and then install each individual SoftPaq on the current system.

Using HP SoftPaq Download Manager to download SoftPaqs for multiple platforms

1. Download and install HP SoftPaq Download Manager from www.hp.com/go/sdm on any Windows based system.
2. Launch HP Softpack Download Manager
3. When prompted, select **Show software for all supported models** (Figure A-4).

Figure A-4. SoftPaq Download Manager menu



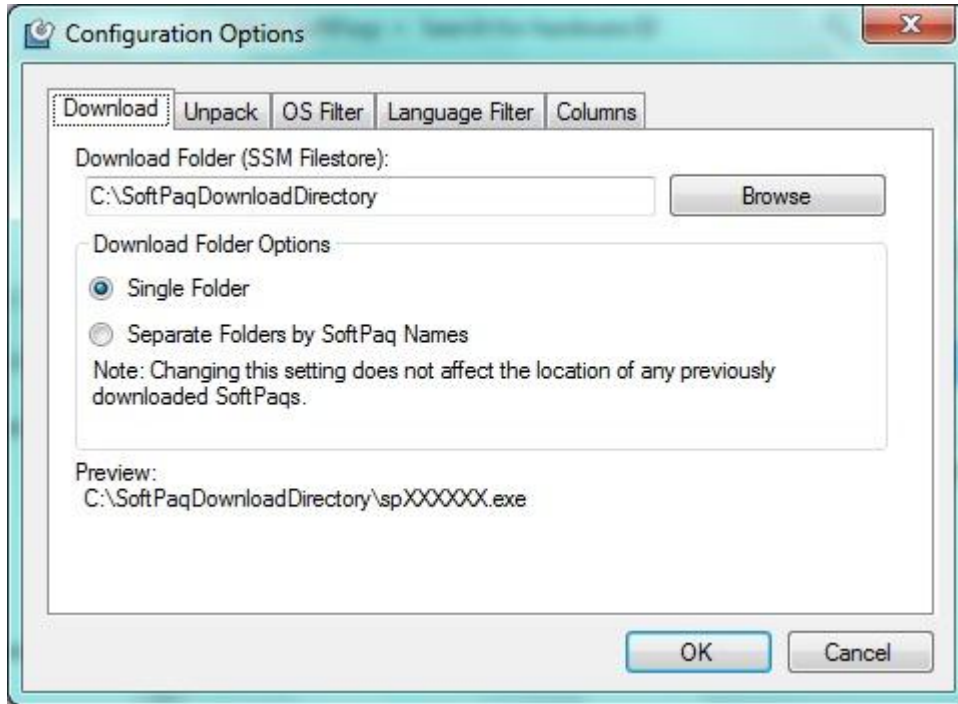
4. Select the respective platforms in the Product Catalog window.
5. Select the appropriate **Driver** and **Operating System Enhancement** SoftPaqs from the Available SoftPaqs list (Figure A-5).

Figure A-5. Available SoftPaqs list



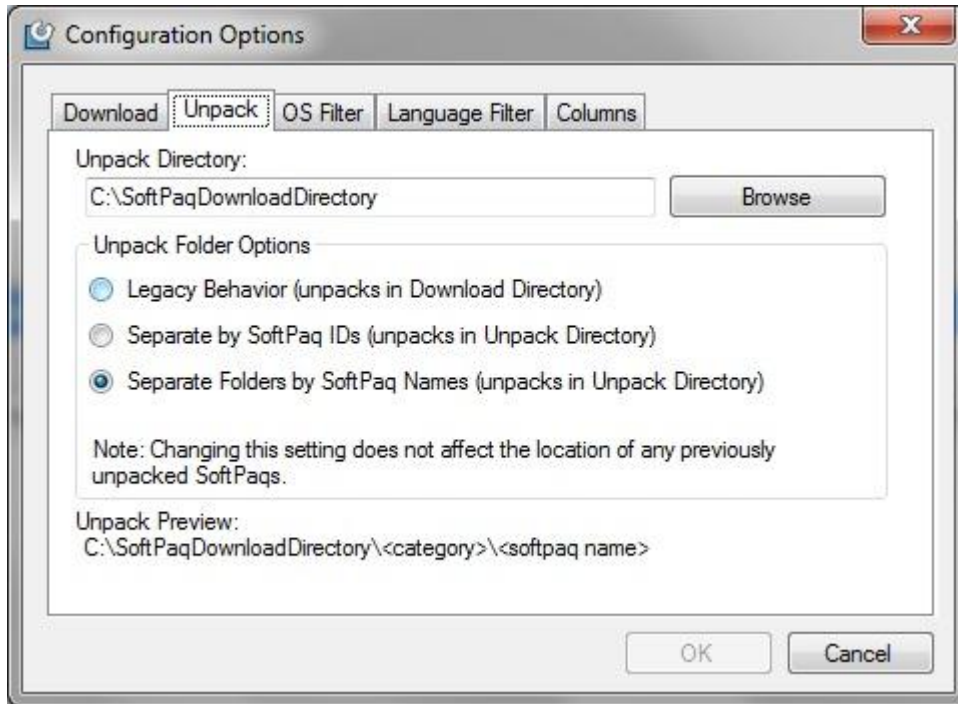
6. Prior to downloading the softpaqs, set your download preferences in the **Configuration Options** window (Figure A-6) accessed from the Tools menu (Tools -> Configuration Options).

Figure A-6. Download tab in Configuration Options window



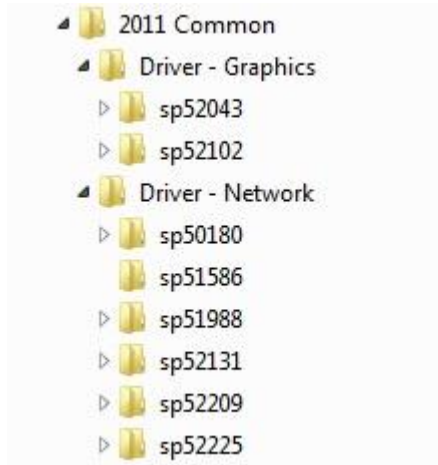
7. Additional customizations are available through the **Unpack** tab (Figure A-7).

Figure A-7. Unpack tab in Configuration Options window



- **Unpack Directory** – this field allows the user to change the location where the SoftPags will be unpacked once they are downloaded.
- **Unpack Folder Options**
 - **Legacy Behavior** – this option will unpack all selected SoftPags in the Download Directory established on the **Download** tab (above). Unpack directory field will be locked.
 - **Separate by SoftPq IDs** – this option will unpack all selected SoftPags in the folder designated in the Unpack directory. Individual SoftPags will be unpacked in a unique folder based on SP# (i.e. \SPxxxxx) according to SoftPq category (Driver – Video, Driver – Audio, etc.). Figure A-8 shows an example of this folder structure.

Figure A-8. Example of folder structure separated by SoftPaq IDs



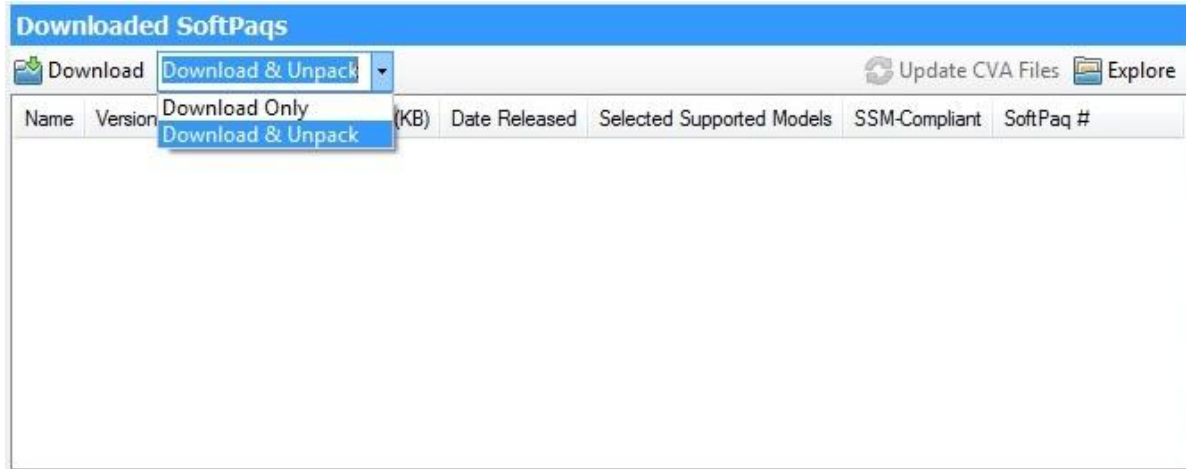
- **Separate by SoftPaq Names** – this option will unpack all selected SoftPaqs in the folder designated in the Unpack directory. Individual SoftPaqs will be unpacked in a unique folder based on SP Name (i.e. HP Universal Camera Driver) according to SoftPaq category (Driver – Video, Driver – Audio, etc.). Figure A-9 shows an example of this folder structure.

Figure A-9. Example of folder structure separated by SoftPaq Name



8. After selecting the desired SoftPaqs, the following options are available in the Downloaded SoftPaqs window: **Download Only** or **Download and Unpack** (Figure A-10).

Figure A-10. Downloaded SoftPaqs window



- **Download Only** – this option will download all selected SoftPaqs according to the settings established in the **Download tab** in the Configuration Options dialog. Default is Single Folder set to “C:\SoftPaqDownloadDirectory”.
 - **Download and Unpack** – this option will download all selected SoftPaqs according to the settings established in the **Unpack tab** in the Configuration Options dialog. Default is Legacy Behavior (unpack in Download directory) “C:\SoftPaqDownloadDirectory”.
9. After download is complete, the SoftPaqs can either be installed directly or imported into your respective management solution.

For more technical information about using HP SoftPaq Download Manager, please refer to the User Guide at www.hp.com/go/sdm.

Appendix B: Sample Sysprep.inf files

Example of Windows XP SYSPREP.INF

```
[Unattended]
OemSkipEula=No
OemPnPDriversPath =
"Drv\Video;Drv\Nic;Drv\Audio;Drv\Modem;Drv\Misc1;Drv\Misc2;Drv\Misc3;Drv\Misc4;Drv\Misc5;Drv\
Chipset;Drv\KBD;Drv\MSD;Drv\USB;Drv\Network"

InstallFilesPath = "C:\i386"

[GuiRunOnce]
Command0=c:\Drv\install.bat

[GuiUnattended]
AdminPassword=*
EncryptedAdminPassword=NO
AutoLogon=Yes
AutoLogonAccountCreation=NO
AutoLogonCount=1
OEMSkipRegional=0
OemSkipWelcome=0
WaitForReboot=NO

[UserData]
ComputerName=*

[RegionalSettings]
LanguageGroup=1

[Identification]
JoinWorkgroup=WORKGROUP

[Networking]
InstallDefaultComponents=Yes

[OEM_Ads]
Background=BACKGRND.BMP

[Data]
UseBIOSToBoot=1

[SysprepMassStorage]
PCI\VEN_8086&DEV_2410 = %systemroot%\inf\machine.inf ;INTEL PCI-ISA bridge
PCI\VEN_1106&DEV_0571 = %systemroot%\inf\mshdc.inf ;VIA IDE controller
PCI\VEN_10DE&DEV_01BC = %systemroot%\inf\mshdc.inf ;Nvidia IDE controller
```

Example of Vista / Windows 7 SYSPREP.XML

```
<?xml version="1.0" encoding="utf-8"?>
<unattend xmlns="urn:schemas-microsoft-com:unattend">
  <settings pass="oobeSystem">
    <component name="Microsoft-Windows-International-Core" processorArchitecture="x86"
      publicKeyToken="31bf3856ad364e35" language="neutral" versionScope="nonSxS">

      xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
      instance">
        <InputLocale>en-us</InputLocale>
        <SystemLocale>en-us</SystemLocale>
        <UILanguage>en-us</UILanguage>
        <UILanguageFallback>en-us</UILanguageFallback>
        <UserLocale>en-us</UserLocale>
      </component>
    <component name="Microsoft-Windows-Shell-Setup" processorArchitecture="x86" publicKeyToken="31bf3856ad364e35"
      language="neutral" versionScope="nonSxS">

      xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
      instance">
        <OOBE>
          <HideEULAPage>true</HideEULAPage>
          <NetworkLocation>Work</NetworkLocation>
          <ProtectYourPC>1</ProtectYourPC>
          <SkipUserOOBE>true</SkipUserOOBE>
        </OOBE>
        <RegisteredOrganization>Bmankind</RegisteredOrganization>
        <RegisteredOwner>Bmankind</RegisteredOwner>
        <UserAccounts>
          <LocalAccounts>
            <LocalAccount wcm:action="add">
              <Password>
                <Value>cABhAHMAcwB3AG8AcgBkAFAAYQBzAHMAdwBvAHIAZAA=</Value>
                <PlainText>>false</PlainText>
              </Password>
              <Name>UserA</Name>
              <Group>administrators</Group>
              <DisplayName>UserA</DisplayName>
            </LocalAccount>
          </LocalAccounts>
          <AdministratorPassword>

            <Value>cABhAHMAcwB3AG8AcgBkAEEAZABtAGkAbgBpAHMAAdABYAGEAdABvAHIAUABhAHMAcwB3AG8AcgBkAA==</V
            alue>
            <PlainText>>false</PlainText>
          </AdministratorPassword>
        </UserAccounts>
      </component>
    </settings>
  <settings pass="auditSystem">
    <component name="Microsoft-Windows-PnpCustomizationsNonWinPE" processorArchitecture="x86"
      publicKeyToken="31bf3856ad364e35" language="neutral" versionScope="nonSxS">

      xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
      instance">
        <DriverPaths>
          <PathAndCredentials wcm:keyValue="dfbff91" wcm:action="add">
            <Path>C:\Drv</Path>
          </PathAndCredentials>
        </DriverPaths>
      </component>
    <component name="Microsoft-Windows-Deployment" processorArchitecture="x86"
      publicKeyToken="31bf3856ad364e35" language="neutral" versionScope="nonSxS">
```

```
xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <Reseal>
    <Mode>Audit</Mode>
  </Reseal>
  <AuditComputerName>
    <MustReboot>>false</MustReboot>
    <Name>*</Name>
  </AuditComputerName>
</component>
<component name="Microsoft-Windows-Shell-Setup" processorArchitecture="x86" publicKeyToken="31bf3856ad364e35"
language="neutral" versionScope="nonSxS"
```

```
xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <AutoLogon>
    <Username>Administrator</Username>
    <Enabled>>true</Enabled>
    <LogonCount>3</LogonCount>
  </AutoLogon>
</component>
</settings>
<settings pass="specialize">
  <component name="Microsoft-Windows-Shell-Setup" processorArchitecture="x86" publicKeyToken="31bf3856ad364e35"
language="neutral" versionScope="nonSxS"
```

```
xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <ProductKey>xxxx-xxxx-xxxx-xxxx-xxxx</ProductKey>
  <ShowWindowsLive>>false</ShowWindowsLive>
  <TimeZone>Eastern Standard Time</TimeZone>
  <Display>
    <ColorDepth>32</ColorDepth>
    <DPI>106</DPI>
    <HorizontalResolution>1280</HorizontalResolution>
    <RefreshRate>75</RefreshRate>
    <VerticalResolution>1024</VerticalResolution>
  </Display>
  <ComputerName>*</ComputerName>
  <CopyProfile>>true</CopyProfile>
</component>
<component name="Microsoft-Windows-Security-Licensing-SLC-UX" processorArchitecture="x86"
publicKeyToken="31bf3856ad364e35" language="neutral" versionScope="nonSxS"
```

```
xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <SkipAutoActivation>>true</SkipAutoActivation>
</component>
<component name="Microsoft-Windows-UnattendedJoin" processorArchitecture="x86"
publicKeyToken="31bf3856ad364e35" language="neutral" versionScope="nonSxS"
```

```
xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <Identification>
    <Credentials>
      <Domain>arbor01</Domain>
      <Password>nopass</Password>
      <Username>installman</Username>
    </Credentials>
    <JoinDomain>arbor01</JoinDomain>
  </Identification>
</component>
<component name="Microsoft-Windows-Deployment" processorArchitecture="x86"
publicKeyToken="31bf3856ad364e35" language="neutral" versionScope="nonSxS"
```

```
xmlns:wcm="http://schemas.microsoft.com/WMIConfig/2002/State" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <RunSynchronous>
    <RunSynchronousCommand wcm:action="add">
      <Order>1</Order>
      <Path>net user administrator /active:yes</Path>
    </RunSynchronousCommand>
  </RunSynchronous>
</component>
</settings>
<cpu:offlineImage cpu:source="wim:d:/sources/install.wim#Windows 7 ULTIMATE" xmlns:cpu="urn:schemas-microsoft-
com:cpu" />
</unattend>
```

References

HP Client Catalog for SCCM

- <http://h20331.www2.hp.com/Hpsub/cache/561194-0-0-225-121.html>

HP Client Management Interface

- www.hp.com/go/hpcmi

Microsoft .NET Framework

- <http://www.microsoft.com/net/>

Description of the Windows XP Corporate Deployment tools and documentation

- <http://support.microsoft.com/kb/321880>

System Preparation Tool and Answer File Usage

- <http://support.microsoft.com/kb/314460>

Windows Automated Installation Kit (AIK) Download

- <http://www.microsoft.com/downloads/details.aspx?FamilyID=C7D4BC6D-15F3-4284-9123-679830D629F2&displaylang=en>

Windows Automated Installation Kit Information

- [http://technet.microsoft.com/en-us/library/cc748933\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc748933(WS.10).aspx)

For more information

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