



# iNSTALLING WINDOWS<sup>®</sup> 7

## BETA ON HP BUSINESS

## NOTEBOOKS

March 31, 2009

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### Introduction

In the winter of 2009, Microsoft released Windows 7 Beta. This is the replacement for Windows Vista<sup>®</sup>, although both versions will be available for a period of time. Windows Vista was launched in late 2006 with preinstall availability in January of 2007.

#### Purpose

This white paper provides instructions on how to install Microsoft<sup>®</sup> Windows 7 Beta on select HP Business notebooks. Windows 7 Beta should be used for evaluation only. Pre-release operating systems are not supported on HP business notebooks. The following guidelines provide installation procedures independent of the currently installed operating system.

## Audience

This white paper is for use by HP personnel and clients evaluating Windows 7 Beta.

## System Requirements and prerequisites

The following represents a list of requirements and HP Business Notebook models recommended for testing with Windows 7.

### Minimum Requirements from Microsoft

- 1 GHz 32-bit (x86) or 64-bit (x64) processor
- 1 GB System Memory
- Graphics adapter with WDDM driver and 128MB of memory
  - All models listed below have WDDM video drivers available
- 24 GB available hard disc space
- DVD-RW drive
- **HP recommends** a 1.5GHz or faster CPU, 2GB of system memory (dual channel for UMA systems) and 80 GB 5400 RPM hard drive

### Applicable 2007 models

- HP Compaq 2510p Notebook PC
- HP Compaq 2710p Notebook PC
- HP Compaq 6910p Notebook PC
- HP Compaq 8510p Notebook PC
- HP Compaq 8510w Mobile Workstation
- HP Compaq 8710p Notebook PC
- HP Compaq 8710w Mobile Workstation
- HP Compaq 6510b Notebook PC
- HP Compaq 6520s Notebook PC
- HP Compaq 6710b Notebook PC
- HP Compaq 6720b Notebook PC

### Applicable 2008 models

- HP EliteBook 2530p Notebook PC
- HP EliteBook 2730p Notebook PC
- HP EliteBook 6930p Notebook PC
- HP EliteBook 8530p Notebook PC
- HP EliteBook 8530w Mobile Workstation
- HP EliteBook 8730w Mobile Workstation
- HP Compaq 6530b Notebook PC
- HP Compaq 6730b Notebook PC
- HP Compaq 6535b Notebook PC
- HP Compaq 6735b Notebook PC
- HP Compaq 6730b Notebook PC

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**IMPORTANT**

This process will delete all files on the target system.

**WARNING:** IF YOU DO NOT BACK UP YOUR DATA BEFORE PROCEEDING, YOUR PERSONAL DATA WILL BE LOST. BEFORE YOU PROCEED, you must back up all personal data (files, pictures, etc.) prior to installing Microsoft Windows 7.

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## Prerequisites

You will need the following before installing Windows 7:

- An applicable system
  - Microsoft Windows 7 Beta DVD
  - Internet access
- 

**IMPORTANT**

This document does not provide a license to create and/or distribute an operating system image. This document is intended to be a technical resource for those who have the proper license to evaluate the Windows 7 operating system. The operating system license shipped with HP PCs does not grant re-imaging and deployment rights. Before using the document to deploy an image, please contact your Microsoft licensing representative to obtain the proper license agreements. HP cannot be held liable if a customer uses this document to create or deploy an image that violates Microsoft license agreements.

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## Installing the operating system and drivers

This section provides guidelines for users who perform a clean installation of Microsoft Windows 7.

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**IMPORTANT**

Upgrade the system ROM before beginning OS installation.

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## Installing the operating system

Perform the following steps when installing Windows 7 Beta

1. Change the boot order in F10 Setup to make the optical drive the first boot device.
2. Insert the OS DVD and power on the system.
3. Follow the on-screen instructions for operating system installation.
  - a. Select Custom Installation when prompted

- i. Upgrades from Vista are not recommended with Windows 7 Beta
- 4. Connect to the Internet and download the latest drivers and enhancements from Microsoft Windows Update.
  - a. See Driver Tables for additional information.

Driver availability

As of late February 2009, drivers for key subsystems are available with Windows 7 Beta or from Windows Update, including video, audio, modem, NIC, wireless LAN, Bluetooth, flash media reader, TPM module, accelerometer, webcams and pointing devices.

2007 Models	Video	Audio	Modem	NIC	Wireless LAN	Bluetooth	Smart Card Controller	TPM Module
2510	✓	✓	✓ *	✓	✓	✓	✓ *	✓
2710	✓	✓	✓	✓	✓	✓	✓ *	✓
6910	✓ *	✓	✓	✓	✓	✓	✓ *	✓
8510	✓ *	✓	✓ *	✓	✓	✓	✓ *	✓
8710	✓ *	✓	✓	✓	✓	✓	✓ *	✓
6510	✓	✓	✓ *	✓	✓	✓	✓ *	✓
6515	✓ *	✓	✓ *	✓	✓	✓	✓ *	✓
6710	✓	✓	✓ *	✓	✓	✓	✓ *	✓
6715	✓ *	✓	✓ *	✓	✓	✓	✓ *	✓

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**Note:**

Driver availability is subject to change.

- ✓ - Driver included in Windows 7 Beta
  - ✓ \* - Driver available from Windows Update
-

2008 Models	Video		Audio		Modem		NIC		Wireless LAN		Bluetooth		Smart Card Controller		TPM Module	
2530	✓	✓	✓	✓	✓ *	✓	✓	✓	✓	✓	✓	✓	✓ *	✓	✓	✓
2730	✓	✓	✓	✓	✓ *	✓	✓	✓	✓	✓	✓	✓	✓ *	✓	✓	✓
6930	✓	✓	✓	✓	✓ *	✓	✓	✓	✓	✓	✓	✓	✓ *	✓	✓	✓
8530	✓ *	✓	✓	✓	✓ *	✓	✓	✓	✓	✓	✓	✓	✓ *	✓	✓	✓
8730	✓ *	✓	✓	✓	✓ *	✓	✓	✓	✓	✓	✓	✓	✓ *	✓	✓	✓
6530	✓	✓	✓	✓	✓ *	✓	✓	✓	✓	✓	✓	✓	N/A	✓	✓	✓
6535	✓	✓	✓	✓	✓ *	✓	✓	✓	✓	✓	✓	✓	N/A	✓	✓	✓
6735	✓	✓	✓	✓	✓ *	✓	✓	✓	✓	✓	✓	✓	N/A	✓	✓	✓
6730	✓	✓	✓	✓	✓ *	✓	✓	✓	✓	✓	✓	✓	N/A	✓	✓	N/A

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**Note:**

Driver availability is subject to change.

✓ - Driver included in Windows 7 Beta

✓ \* - Driver available from Windows Update

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## Appendix A: Known Anomalies

This is a partial list of anomalies observed during Windows 7 testing.

### Docking / external video switching

**Anomaly:** Some models lock up when docking/undocking or switching video output.

**Description:** Listed models will exhibit anomalous behavior when an external display device is connected directly to the system or through a docking base.

**Affected Systems:** 8530w and 8730w

**Resolution:** Shut down before attaching to or detaching external display devices. Updated beta video drivers will be available in April on Windows Update which will enhance behavior with external display devices.

### Drive Encryption

**Anomaly:** Systems with BitLocker enabled might lock when resuming from hibernation.

**Description:** Tested models running Windows 7 Beta would lock up when attempting to resume from hibernation with disc encryption enabled.

**Affected Systems:** All models

**Resolution:** While evaluating Windows 7 Beta, do not enable disc encryption. This should be addressed in later Windows 7 builds.

### Unrecognized devices in Device Manager

**Anomaly:** Several devices aren't recognized after installing Windows 7 Beta

**Description:** Base System Device, Fingerprint Sensor, PCI Serial Port, PCI Simple Communications Controller, and Unknown devices lack drivers in Device Manager.

**Affected Systems:** All models

**Resolution:** Run Windows Update. After Windows Update is run, Fingerprint Sensor and PCI Serial Port and Simple Communications Controller will remain under "Other Devices". The Windows Vista fingerprint sensor driver can be installed, but has not been tested under Windows 7. AMT drivers are not currently available for Windows 7.

### Upgrade

**Anomaly:** Windows 7 Beta Upgrade is extremely slow

**Description:** When selecting the *Upgrade* option during Windows 7 installation, process stalls or is extremely slow.

**Affected Systems:** All models

**Resolution:** Select *Custom Install* to perform a clean install when installing Windows 7 Beta on HP business notebooks. Remember to backup all data prior to installing any OS.

### 3D DriveGuard does not function

**Anomaly:** Hard drive does not park when the system is dropped with Windows 7 Beta

**Description:** HP 3D DriveGuard does not currently work under Windows 7 Beta.

**Affected Systems:** All models

**Resolution:** Windows 7 Beta is set to Sleep on lid close by default, which will park the hard drive. A new version of HP 3D DriveGuard will be available at Windows 7 launch.

## Appendix B: Questions and Answers

### Will my 2710p run Windows 7?

Yes. Supported 2007 and 2008 models with at least 1 GB of RAM (2 GB recommended) and adequate available drive space will run Windows 7.

### Will my 2710p work with the Aero user interface?

Yes. Windows 7 display drivers are available for all supported 2007 and 2008 UMA and discrete models either with Windows 7 Beta or from Windows Update.

### How many different versions of Windows 7 does Microsoft plan to release?

Six versions - Ultimate, Enterprise, Professional, Home Premium, Home Basic and Starter Edition. All but Starter Edition are available in both 32 and 64 bit.

### Are 32 and 64 bit versions of Windows 7 identical?

No, 64 bit Windows 7 is different than 32 bit. Application compatibility levels and device support will vary between the 32 and 64 bit versions.

### What versions will HP offer?

HP will offer Windows 7 Home Premium and Professional preinstalled on business notebooks.

### What about Windows 7 Home Basic or Ultimate?

Windows 7 Home Basic will be offered in select countries. There are no plans to offer Windows 7 Ultimate on Business Notebooks.

### I currently use Windows XP Professional. Which version of Windows 7 should I buy?

If you are purchasing Windows XP Professional or Windows XP Tablet Edition today, purchase Windows 7 Professional, which provides equivalent functionality at a similar price.

For more information

To learn more about HP business notebooks, contact your local HP sales representative or visit our Web site at: <http://www.hp.com/go/notebooks>



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