

Installing Microsoft Windows 8 on the ElitePad 900



Commercial Managed IT

Table of contents

Executive summary	2
System requirements and prerequisites	2
Installing the OS, drivers, and enhancements.....	2
Drivers and enhancements	4
Appendix A: Using HP SoftPaq Download Manager	5
Appendix B: Installing preboot applications and tools	7
Applications accessible during startup	7
Creating or restoring a preboot partition on the hard drive	7
HP_TOOLS partition errors.....	7
Appendix C: Q & A	8
Appendix D: Windows 8 Product Guide	9
For more information	9

Sign up for updates
hp.com/go/getupdated

© Copyright 2013 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation. AMD is a trademark of Advanced Micro Devices, Inc. Intel and Xeon are trademarks of Intel Corporation in the U.S. and other countries. Oracle and Java are registered trademarks of Oracle and/or its affiliates.



Executive summary

This white paper provides instructions for installing 32-bit versions of Microsoft® Windows® 8 operating systems along with applicable HP drivers and applications on the HP ElitePad 900 tablet.

Windows 8 is the latest client operating system from Microsoft. It features a modern user interface while maintaining all of the compatibility, manageability, and security features for which Windows is known. For more information on Windows 8 features, refer to [Appendix D: Windows 8 Product Guides](#).

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

System requirements and prerequisites

Warning

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

Unless Windows is installed using recovery media from HP, you will not have access to the HP Store or applications that are only distributed via the HP Store such as HP PageLift.

The following items are recommended for installing Windows 8:

- HP ElitePad 900
 - HP ElitePad Docking Station
 - USB keyboard and pointing device
 - Windows 8 OS media on DVD or USB flash storage (see Warning above)
 - Media from an alternate source will 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)
-

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 are installing Windows 8 Professional.

Installing the OS, drivers, and enhancements

This section provides guidelines for users performing a clean installation of Windows 8.

¹ Typically provided on the product's Certificate of Authenticity

Sign up for updates

hp.com/go/getupdated

© Copyright 2013 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation. AMD is a trademark of Advanced Micro Devices, Inc. Intel and Xeon are trademarks of Intel Corporation in the U.S. and other countries. Oracle and Java are registered trademarks of Oracle and/or its affiliates.



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.
 - Contact your network administrator to properly set up the networking components of Windows.
 - Drivers and Software for ElitePad 900 can be accessed from here: [ElitePad 900 Drivers](#)
2. Connect the ElitePad 900 tablet to an HP ElitePad Docking Station with USB flash storage, keyboard, and pointing device attached.
3. Power on the tablet and press the F9 key repeatedly during Power On Self Test (POST).
4. When prompted, select the USB Hard Drive as the boot device.
 - NOTE: For USB DOK installation, a bootable DOK with WinPE 4.0 32-bit is required. The WinPE boot image must have the HP WinPE 4.0 Driver Pack added to the image in order for network connectivity to be available during deployment.
5. Follow on-screen instructions to install Windows 8.
6. Install communications drivers from the USB storage device used in Step 1.
 - NOTE: A reboot may be required to complete installation of the the communication drivers.
7. Install Microsoft Updates:
 - Install any required patches from <http://windowsupdate.microsoft.com> or contact your network administrator for additional updates. Reboot the system after these patches have been installed.
 - NOTE: The following updates are required:
 - KB 931125 – Root Certificate Update (<http://support.microsoft.com/kb/931125>)
 - KB 2756872 – Windows 8 Client General Availability Cumulative Update (<http://support.microsoft.com/kb/2756872>)
8. Install HP Updates
 - A. Install the HP ElitePad Driver & Firmware Update package (Table 1) to update the BIOS, Firmware and Drivers.
 - The following parameters are available:
 - **FDSetup-s**: Standard silent install
 - **FDSetup-s-f**: Must be used with –s. Forces FDSetup to run, regardless of previous version installed. This setup may be necessary if a captured image from an ElitePad is used to ensure BIOS and FW are also updated.
 - **-P<PasswordFileName>**
 - The password file is generated by the HPQPSWD utility
 - The password file is encrypted to ensure the security of the password.
 - There are no spaces between –p and the file name. If there are spaces in the file name please put quotes around them
 - A network location should not be used for the password file as the password file is deleted after FDSetup is run for security purposes.
 - Restart the computer after installation of the Driver & Firmware Update package has completed.

Sign up for updates

hp.com/go/getupdated

© Copyright 2013 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation. AMD is a trademark of Advanced Micro Devices, Inc. Intel and Xeon are trademarks of Intel Corporation in the U.S. and other countries. Oracle and Java are registered trademarks of Oracle and/or its affiliates.



- B. Install the remaining drivers and enhancements listed in Table 1 using HP SoftPaq Download Manager (available from www.hp.com/go/sdm); alternatively, individual SoftPaqs can download from the HP website. For more information, refer to [Appendix A: Using HP SoftPaq Download Manager](#).

Drivers and enhancements

Table 1 lists minimum recommended HP drivers and enhancements for Windows 8 Professional for the HP ElitePad 900. The following priorities are specified:

- Required – Mandatory for optimal hardware support
- Recommended – Recommended by HP for optimal system performance
- Optional – Value-add software for desired solution

Table 1. Minimum recommended software versions for the ElitePad 900

Name	Version	Priority
Broadcom GPS Driver for Microsoft Windows 8	19.14 E	Required
Near Field Proximity (NFP) Driver by NXP Semiconductors	1.4.4.3 A	Required
Essential System Updates for Microsoft Windows 8	1.0 Rev 4	Required
HP USB-to-Serial Connector Driver	1.7.0.0 A	Required
HP ElitePad 900 Driver and Firmware Update	1.0.0.6 A	Required
Qualcomm Atheros Bluetooth 4.0+HS Driver	1.9 A	Required
Qualcomm Atheros AR6000 Series Wireless LAN Driver	3.7 B	Required
Realtek Media Card Reader Driver	6.1.7601.39025 A	Required
HP USB-to-Ethernet Connector Driver	2.6.0.8 A	Required
HP BIOS Settings	1.0.11.1 A	Required

Note

Additional software may require Microsoft .NET

Sign up for updates

hp.com/go/getupdated

© Copyright 2013 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation. AMD is a trademark of Advanced Micro Devices, Inc. Intel and Xeon are trademarks of Intel Corporation in the U.S. and other countries. Oracle and Java are registered trademarks of Oracle and/or its affiliates.



Appendix A: Using HP SoftPaq Download Manager

Perform the following procedure to use HP SoftPaq Download Manager to update your 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.
 - NOTE: .NET Framework 3.5 SP1 is required. Installation of .NET 3.5 SP1 on Windows 8 is located here: <http://msdn.microsoft.com/en-us/library/hh506443.aspx>.
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 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



The current platform is automatically selected and displayed in the Product Catalog window.

Sign up for updates
hp.com/go/getupdated

© Copyright 2013 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation. AMD is a trademark of Advanced Micro Devices, Inc. Intel and Xeon are trademarks of Intel Corporation in the U.S. and other countries. Oracle and Java are registered trademarks of Oracle and/or its affiliates.



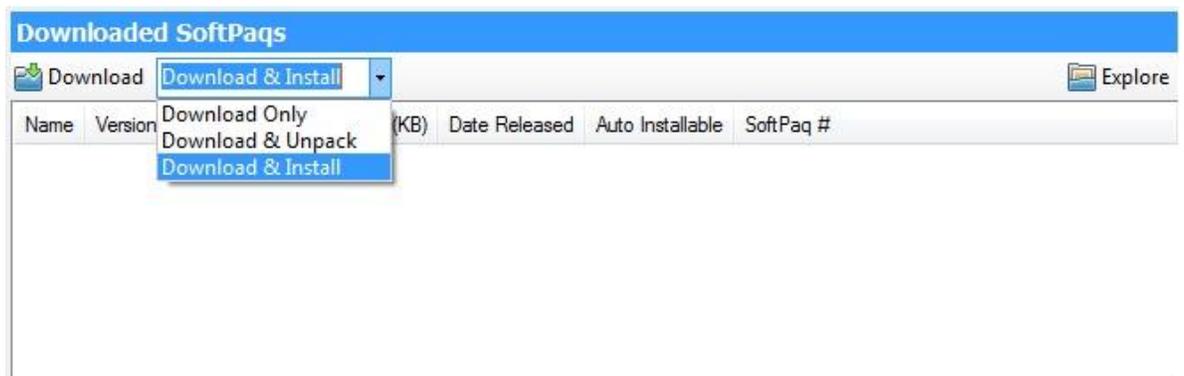
- Select the desired SoftPaqs from the Available SoftPaqs list (Figure A-2).

Figure A-2. Available SoftPaqs list



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

Figure A-3. Downloaded SoftPaqs window



Select the appropriate download option based on the following:

- Download Only – Download selected SoftPaqs to C:\ProgramData\HP\HP SoftPaq Download Manger\SWDownload
- Download and Unpack – Download selected SoftPaqs to C:\ProgramData\HP\HP SoftPaq Download Manger\SWDownload and unpack each SoftPaq in a unique folder based on the particular SoftPaq number (\SPxxxx).
- Download and Install – Download selected SoftPaqs to C:\ProgramData\HP\HP SoftPaq Download Manger\SWDownload and then install each on the current system.

For more information on using HP SoftPaq Download Manager, refer to the Help documentation in the tool.

NOTE: Additional information is available via the SDM Support Forum (SDM -> Help -> Support Forum)

Sign up for updates
hp.com/go/getupdated

© Copyright 2013 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation. AMD is a trademark of Advanced Micro Devices, Inc. Intel and Xeon are trademarks of Intel Corporation in the U.S. and other countries. Oracle and Java are registered trademarks of Oracle and/or its affiliates.



Appendix B: Installing preboot applications and tools

The HP TOOLS partition and the preboot applications on the partition are not required for the basic operation of HP notebook computers. However, if the HP_TOOLS partition or applications are missing, the features described in this paper will not be available.

Applications accessible during startup

The HP_TOOLS partition includes the following applications and utilities:

- HP System Diagnostics - allows you to perform diagnostic tests on select system components
- BIOS Recovery – automatic BIOS corruption detection and recovery

Creating or restoring a preboot partition on the hard drive

Use the following steps to create the HP preboot partition and install preboot SoftPaqs onto the partition:

1. Download the SoftPaqs for HP UEFI Support Environment Setup, System Diagnostics and BIOS to the operating system partition. SoftPaqs are available from [ElitePad 900 Drivers](#).
 - Install the HP UEFI Support Environment Setup SoftPaq first.
2. Verify that the SoftPaqs run and unbundle into the C:\swsetup directory.
3. Verify that the preboot application is installed in the correct location in the FAT32 partition.
4. Verify that all preboot applications have signature (.sig) files.
5. Verify that each application works properly after installation.

HP_TOOLS partition errors

If the preboot application launch keys fail to operate, the partition may have become corrupt. Reinstall the application using the related SoftPaq from <http://www.hp.com/support>. If a reinstalled preboot application does not work after reinstallation, contact technical support.

The following errors may be displayed if a problem occurs when launching EFI and preboot applications:

- Preboot partition not found: can't find FAT32 partition starting with HP_TOOLS.
- Application not found: can't find preboot application in directory.
- Invalid signature: BIOS fails to verify the signature of the preboot application.

If there is a backup version of the application in BIOS flash (for example, HP System Diagnostics). BIOS will launch the backup. Otherwise, BIOS displays an error message.

Warning

Do not encrypt HP_TOOLS partition using software encryption programs such as Windows BitLocker or Full Volume Encryption for HP ProtectTools. When the partition is encrypted, HP preboot applications cannot function.

Sign up for updates
hp.com/go/getupdated

© Copyright 2013 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation. AMD is a trademark of Advanced Micro Devices, Inc. Intel and Xeon are trademarks of Intel Corporation in the U.S. and other countries. Oracle and Java are registered trademarks of Oracle and/or its affiliates.



Appendix C: Q & A

Q: Are my accessories compatible with Windows 8?

A: Software and hardware compatibility can be checked at the [Compatibility Center for Windows 8](#) on Microsoft's website.

Q: Will I have access to HP Store?

A: Depends. Scenarios outlined below:

- If using VL or KMS server to install Windows 8:
 - No. Access will not be available to HP Store. Therefore no HP Metro apps available that are preloaded from HP.
- If using Retail Key to install Windows 8:
 - No. Access will not be available to HP Store. Therefore no HP Metro apps available that are preloaded from HP.
- If using clean OS with HP DPK and HP Recovery Image:
 - Yes. Access will be available to HP Store.

Q: Can Windows Store apps be deployed outside of the Windows Store?

A: Yes. Refer to the following link for more details:

- <http://blogs.msdn.com/b/windowsstore/archive/2012/04/25/deploying-metro-style-apps-to-businesses.aspx>

Sign up for updates
hp.com/go/getupdated

© Copyright 2013 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation. AMD is a trademark of Advanced Micro Devices, Inc. Intel and Xeon are trademarks of Intel Corporation in the U.S. and other countries. Oracle and Java are registered trademarks of Oracle and/or its affiliates.



Appendix D: Windows 8 Product Guide

You can download a Windows 8 Product Guide from the Microsoft website using the following steps:

1. Go to www.microsoft.com/download.
2. Search on "Windows 8 Product Guide."

For more information

Microsoft .NET Framework: <http://www.microsoft.com/net/>

Microsoft Windows 8 Compatibility Center: <http://www.microsoft.com/en-us/windows/compatibility/en-us/CompatCenter/Home>

HP Support & Drivers Page: <http://www.hp.com/go/support>

HP & Windows 8 Page: <http://www.hp.com/go/windows8>

To learn more about HP business notebooks, contact your local HP sales representative or visit www.hp.com/go/notebooks.

To help us improve our documents, please provide feedback at hp.com/solutions/feedback.

Sign up for updates

hp.com/go/getupdated

© Copyright 2013 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation. AMD is a trademark of Advanced Micro Devices, Inc. Intel and Xeon are trademarks of Intel Corporation in the U.S. and other countries. Oracle and Java are registered trademarks of Oracle and/or its affiliates.

