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Computer Setup

Using Computer Setup

Computer Setup is a preinstalled, ROM-based utility that can be used even when the operating system is not working or will not load. If the operating system is working, the tablet PC restarts the operating system after you exit Computer Setup.



Pointing devices are not supported in Computer Setup; you must use the keyboard to navigate and make selections.



An external keyboard connected by USB can be used with Computer Setup only if USB legacy support is enabled. For more information about USB, refer to the [“Connecting a USB Device”](#) section in the [“Hardware Components”](#) chapter in this guide.

The menu tables later in this chapter provide an overview of Computer Setup options.

Accessing Computer Setup

The information and settings in Computer Setup are accessed from the **File**, **Security**, **Tools**, and **Advanced** menus.

1. Open Computer Setup by turning on or restarting the tablet PC. Press **f10** while the F10 = ROM Based Setup message is displayed in the lower-left of the screen.
 - ❑ To change the language, press **f2**.
 - ❑ To view navigation information, press **f1**.
 - ❑ To return to the **Computer Setup** menu, press **esc**.
2. Select the **File**, **Security**, **Tools**, or **Advanced** menu.
3. To exit Computer Setup, choose one of the following:
 - ❑ To exit without saving any changes, use the arrow keys to select **File > Ignore changes and exit**, and then follow the instructions on the screen.
 - ❑ To exit and save all the settings you have entered, use the arrow keys to select **File > Save changes and exit**, and then follow the instructions on the screen.

Your preferences are set when you exit Computer Setup and take effect when the tablet PC restarts.

Restoring Computer Setup Defaults

To return all settings in Computer Setup to the values that were set at the factory:

1. Open Computer Setup by turning on or restarting the tablet PC. Press **f10** while the F10 = ROM Based Setup message is displayed in the lower left of the screen.
 - ❑ To change the language, press **f2**.
 - ❑ To view navigation information, press **f1**.
2. Use the arrow keys to select **File > Restore defaults**.
3. Select the **Restore Defaults** check box.

4. To confirm the restoration, press **F10**.
5. Select **File > Save changes and exit**, and then follow the instructions on the screen.

When the computer restarts, the factory settings are restored, and any identification information you may have entered is saved.

Selecting from the File Menu

Select	To Do This
System Information	■ View identification information about the tablet PC and any battery packs in the system. ■ View specification information about the processor, memory and cache size, video revision, keyboard controller version, and system ROM.
Save to floppy	Save system configuration settings to a diskette.
Restore from floppy	Restore system configuration settings from a diskette.
Restore defaults	Replace configuration settings in Computer Setup with factory default settings. (Identification information is retained.)
Ignore changes and exit	Cancel changes entered during the current session. Then exit and restart the tablet PC.
Save changes and exit	Save changes entered during the current session. Then exit and restart the tablet PC. The changes you save are in effect when the tablet PC restarts.

Selecting from the Security Menu

Select This Option	To Do This
Administrator password	Enter, change, or delete an HP Administrator password.
Power-On password	Enter, change, or delete a power-on password.
Password options	■ Enable/disable stringent security ■ Enable/disable required password on restart
DriveLock passwords	Enable/disable DriveLock; change a DriveLock user or master password.  DriveLock settings are accessible only when you enter Computer Setup by turning on (not restarting) the tablet PC.
Smart Card Security	Enable/disable power-on support for smart cards.  This feature is supported by select smart card readers only.

Select This Option	To Do This
Embedded Security	■ Enable/Disable the embedded security chip. ■ Restore embedded security chip to factory settings. ■ Enable/disable power-on authentication support. ■ Enable/disable automatic DriveLock. ■ Reset power-on authentication credential.  Embedded Security settings are accessible only if the tablet PC is equipped with an embedded security chip.
Device security	■ Enable/disable devices in the system. ■ Enable NIC for inclusion in MultiBoot.
System IDs	Enter user-defined identification values.

Selecting from the Tools Menu

Select	To Do This
HDD Self Test options	Run a quick or comprehensive self-test on any hard drive in the system.
Battery Information	View information about any battery packs in the tablet PC.
Memory Check	■ Run a self-test on memory modules in the tablet PC. ■ View information about memory modules installed in the tablet PC.

Selecting from the Advanced Menu

Select	To Do This
Language (or press f2)	Change the Computer Setup language.
Boot options	■ Enable/disable QuickBoot, which starts the tablet PC more quickly by eliminating some startup tests. (If you suspect a memory failure and want to test memory automatically during startup, disable QuickBoot.) ■ Enable/disable MultiBoot, which sets a startup sequence that can include most bootable devices and media in the system. For details, refer to the “MultiBoot” chapter. ■ Set the boot order.

Select	To Do This
Device options	■ Enable/disable num lock mode at startup. ■ Enable/disable multiple standard pointing devices at startup. (To set the tablet PC to support only a single, usually nonstandard, pointing device at startup, select Disable.) ■ Select a parallel port mode: EPP (Enhanced Parallel Port), standard, bidirectional, or ECP (Enhanced Capabilities Port). ■ Enable/disable USB legacy support for a USB keyboard, mouse, and hub. When USB legacy support is enabled: ☐ A USB keyboard, mouse, and hub work even when a Windows operating system is not loaded. ☐ The tablet PC starts from a bootable hard drive, diskette drive diskette, or CD, CD-RW, or DVD inserted into a drive connected by a USB connector to the tablet PC or to an optional docking device. ■ Enable/disable all settings in the SpeedStep window. (When Disable is selected, the tablet PC runs in Battery Optimized mode.) ■ Swap the functions of the fn key and left ctrl key.

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HP Client Management Solutions

HP Client Management Solutions provides standards-based solutions for managing client (user) desktop, workstation, and tablet PCs in a networked environment.

The key capabilities and features of client management are

- Initial software image deployment.
- Remote system software installation.
- Software management and updates.
- ROM updates.
- Tracking and security of computer assets (the hardware and software installed on the computer).
- Fault notification and recovery of certain system software and hardware components.



Support for specific features described in this chapter may vary, depending on the computer model and/or version of management software installed on your computer.

Configuration and Deployment

HP computers come with a preinstalled system software image. The initial software image is configured during the first-time setup of the computer. After a brief software “unbundling” occurs, the computer is ready to be used.

A customized software image can be deployed (distributed) by

- Installing additional software applications after unbundling the preinstalled software image.
- Using software deployment tools, such as Altiris Deployment Solutions, to replace the preinstalled software with a customized software image.
- Using a disk cloning process to copy the contents from one hard drive to another.

The deployment method you should use depends on your organization’s technology environment and processes. Visit the HP Web site at <http://www.hp.com/go/pcsolutions> for more information on selecting the best deployment method for your organization.



The system recovery discs, Computer Setup utility, and other system features provide further assistance with recovery of system software, configuration management and troubleshooting, and power management.

HP Client Manager Software

HP Client Manager Software (HP CMS) integrates HP Intelligent Manageability technology within Altiris software. HP CMS provides superior hardware management capabilities for HP devices. It provides

- Detailed views of hardware inventory for asset management.
- *PC health check* monitoring and diagnostics.

- Web-accessible reporting of business-critical details, such as machines with thermal warnings and memory alerts.
- Remote updating of system software such as device drivers and ROM BIOS.



Additional functionality can be added when HP CMS is used with optional Altiris Solutions software (purchased separately).

For more information on HP Client Manager, visit the HP Web site at <http://www.hp.com/go/easydeploy>.

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Software Update and Recoveries

Preparing to Update Software

For optimal tablet PC performance and to make sure your tablet PC remains compatible with changing technologies, HP recommends that you install the latest versions of HP software as they become available.

To update HP software:

1. Prepare for any update by identifying your tablet PC type, series or family, and model; refer to [“Accessing Tablet PC Information”](#) later in this chapter. Prepare for a system ROM update by identifying (through the Computer Setup utility) the ROM versions currently installed on the tablet PC.
2. Access the updates through your local HP Web site or the *Support Software* CD (purchased separately).
3. Download and install the updates.



The tablet PC system ROM stores the BIOS. The BIOS determines how the tablet PC hardware interacts with the operating system and external devices and also supports such tablet PC services as time and date.



If your tablet PC connects to a network, HP recommends that you consult with your network administrator before installing any software updates, especially system ROM updates.

Obtaining the Support Software CD

The *Support Software* CD provides HP software updates and installation instructions. The CD includes device drivers, ROM updates, and utilities.

To purchase the current *Support Software* CD or a subscription that provides both the current version and future versions of the CD, visit the HP Web site at <http://www.hp.com>.

Accessing Tablet PC Information

To access the updates for your tablet PC, the following information will be needed:

- The product *category* is Tablet PC.
- The product *family* name and *series* number are printed in the lower-right corner of the display bezel.
- *Model* information is provided on the serial number label on the bottom of the tablet PC.

To determine whether available ROM updates contain later ROM versions than those currently installed on the tablet PC, you need to know the version of the system ROM currently installed.

To display ROM information in Computer Setup:

1. Open Computer Setup by turning on or restarting the tablet PC. Press **f10** while the F10 = ROM Based Setup message is displayed in the lower left of the screen.
 - ❑ To change the language, press **f2**.
 - ❑ For navigation instructions, press **f1**.
2. Select **File > System Information**. The system ROM information is displayed.
3. To exit Computer Setup without changing any settings, use the arrow keys to select **File > Ignore changes and exit**, and then follow the instructions on the screen. After Computer Setup closes, the tablet PC restarts in Windows.

For information about using Computer Setup, refer to the [“Computer Setup”](#) chapter.

Downloading Software from the Internet

Most software on the HP Web site is packaged in compressed files called a SoftPaqs. Some ROM updates may be packaged in compressed files called RomPaqs. Other ROM updates may be provided as CPQFlash SoftPaqs.

Most download packages contain a file named Readme.txt. A Readme.txt file contains information regarding installing and troubleshooting the file. The Readme.txt files included with RomPaqs are in English.

Downloading System ROM



CAUTION: To prevent an unsuccessful installation, download and install the system ROM only while the tablet PC is connected to reliable external power using the AC adapter. Do not download or install the system ROM while the tablet PC is running on battery power, docked in an optional port replicator, or connected to an optional power source. During the download and installation:

- Do not unplug the tablet PC from the electrical outlet.
 - Do not shut down the tablet PC.
 - Do not remove or insert a drive.
-

To download and install a system ROM:

1. Access the page on the HP Web site that provides software for your tablet PC.
 2. Follow the instructions on the screen to locate the system ROM you want to download.
 3. At the download area:
 - a. Write down the information (date and name) of any update that is later than the system ROM currently installed on your tablet PC.
 - b. Select the software you want and follow the download instructions on the screen.
 4. When the download is complete, open Windows Explorer.
 5. In Windows Explorer, select My Computer, then the hard drive designation (usually drive C), and then the folder to which you saved the downloaded item.
 6. In the folder, select the name or number of the software package containing the system ROM update. The system ROM installation begins.
 7. To complete the installation, follow the instructions on the screen.
-



After a message on the screen reports a successful installation, you can delete the download package from the folder.

Downloading Other Software

To download and install other software:

1. Access the page at the HP Web site that provides software for your tablet PC.
2. Follow the instructions on the screen to find the software you want to update.
3. At the download area, select the software you want and follow the downloading instructions on the Web page.
4. When the download is complete, open Windows Explorer.
5. In Windows Explorer, select My Computer, then the hard drive designation (usually drive C), and then the folder to which you saved the downloaded item.
6. In the folder, select the name or number of the software package containing the update.
7. Select the file that includes an .EXE extension—for example, FILENAME.EXE. The installation begins.
8. To complete the installation, follow the instructions on the screen.



After a message on the screen reports a successful installation, you can delete the download package from the folder.

System Recovery

The tablet PC system recovery process provides several ways to recover system functionality. The *Driver Recovery* and *Operating System* discs enable you to recover or repair your tablet PC without losing personal data. The *Operating System* disc also allows you to reinstall the operating system software provided with the tablet PC.



For best results, attempt to recover optimal tablet PC functionality by using the following procedures *in the order described here*.

Safeguarding Your Data

Software or devices added to the tablet PC can cause your system to become unstable. To safeguard your documents, store personal files in the My Documents folder and periodically create a backup copy of My Documents.

Setting System Restore Points

Tablet PCs with Windows XP operating systems provide the option of setting system restore points (benchmarks) daily as you change your personal settings. The tablet PC may also set restore points when you add new software or devices. You should periodically set system restore points when the tablet PC is functioning at optimal performance and before installing new software or devices. This enables you to return to a previous configuration restore point if you encounter problems.

To set a system restore point:

1. Select **Start > Help and Support**. Select the task “Use Tools to view your computer information and diagnose problems.” Select **System Restore**. A System Restore window opens.
2. Follow the on-screen directions for setting a restore point.

To restore the tablet PC to a previous date and time when it was functioning optimally:

1. Select **Start > Help and Support > Tools > System Restore**.
2. Follow the on-screen directions for restoring the tablet PC.

Repairing the Operating System

To attempt an operating system repair without deleting your personal data, use the *Operating System* disc that was shipped with the tablet PC:

1. Connect the tablet PC to external power and turn on the tablet PC.
2. Immediately insert the *Operating System* disc into the tablet PC.
3. Press and hold the power button for 5 seconds to turn off the tablet PC.
4. Press the power button again to start the tablet PC.
5. When prompted, press any key to boot from the disc. After a few minutes, the Welcome to Setup screen is displayed.
6. Press **enter** to continue. A Licensing Agreement screen is displayed.
7. Press **f8** to accept the agreement and continue. The Setup window is displayed.
8. Press **R** to repair the selected Windows installation. The repair process begins. This process may take up to 2 hours to complete. The tablet PC restarts in Windows after the process is complete.

Reinstalling the Operating System



CAUTION: Personal data and software you have installed on the tablet PC will be lost during the operating system reinstall. To protect your data, back up your data before reinstalling your operating system. Refer to the Windows online help utility to learn more about backing up your files.

If other recovery efforts do not successfully repair the tablet PC, you can reinstall the operating system.

To reinstall the operating system:

1. Connect the tablet PC to external power and turn on the tablet PC.
2. Immediately insert the *Operating System* disc into the tablet PC.
3. Press and hold the power button for 5 seconds to turn off the tablet PC.
4. Press the power button again to start the tablet PC.
5. When prompted, press any key to boot from the disc. After a few minutes, the Welcome to Setup screen is displayed.
6. Press **enter** to continue. A Licensing Agreement screen is displayed.
7. Press **f8** to accept the agreement and continue. The Setup window is displayed.
8. Press **esc** to continue installing a new copy of the operating system instead of repairing it.
9. Press **enter** to set up the operating system.
10. Press **C** to continue setup using this partition.
11. Select Format the partition using the NTFS file system (Quick) and press **enter**.



CAUTION: Formatting this drive will delete all current files.

12. Press **F** to format the drive. The reinstallation process begins. This process may take up to 2 hours to complete. The tablet PC restarts in Windows when the process is complete.



When prompted for the product key, refer to the Microsoft Certificate of Authenticity label located on the bottom of the tablet PC.

Reinstalling Device Drivers and Other Software

After the operating system installation process is complete, you must reinstall drivers.

To reinstall drivers, use the *Driver Recovery* disc included with the tablet PC:

1. While running Windows, insert the *Driver Recovery* disc into the optical drive.

If you do not have Autorun enabled, select **Start > Run**. Then type D:\SWSETUP\APPINSTL\SETUP.EXE (where D indicates the optical drive).

2. Follow the on-screen instructions for installing the drivers.

After the drivers are reinstalled, you must reinstall any software you added to the tablet PC. Follow the installation instructions provided with the software.

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Specifications

Operating Environment

The operating environment information in the following table might be helpful if you plan to use or transport the tablet in extreme environments.

Factor	Metric	U.S.
Temperature		
Operating (not writing to optical disc)	0°C to 35°C	32°F to 95°F
Operating (writing to optical disc)	5°C to 35°C	41°F to 95°F
Nonoperating	-20°C to 60°C	-4°F to 140°F
Relative humidity (noncondensing)		
Operating	10% to 90%	10% to 90%
Nonoperating	5% to 95%	5% to 95%
Maximum altitude (unpressurized)		
Operating (14.7 to 10.1 psia)	-15 m to 3,048 m	-50 ft to 10,000 ft
Nonoperating (14.7 to 4.4 psia)	-15 m to 12,192 m	-50 ft to 40,000 ft

Rated Input Power

The power information in this section might be helpful if you plan to travel internationally with the tablet PC.

The tablet PC operates on DC power, which can be supplied by an AC or a DC power source. Although the tablet PC can be powered from a stand-alone DC power source, it is strongly recommended that the tablet PC be powered only with an AC adapter or DC power cord supplied or approved by HP.

The tablet PC is capable of accepting DC power within the following specifications:

Input Power	Rating
Operating voltage	18.5 V dc @ 3.5 A - 65 W
Operating current	3.5 A

This product is designed for IT power systems in Norway with phase-to-phase voltage not exceeding 240 Vrms.

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