

# **Desktop Management Guide**

Business Desktops dx5150 Series

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This guide provides definitions and instructions for using security and HP Client Management Solutions features that are preinstalled on select models.

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#### **Desktop Management Guide**

Business Desktops dx5150 Series

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# **Desktop Management Guide**

HP Client Management Solutions provides standards-based solutions for managing and controlling desktops, workstations, and notebook PCs in a networked environment. HP pioneered desktop manageability in 1995 with the introduction of the industry's first fully manageable desktop personal computers. HP is a patent holder of manageability technology. Since then, HP has led an industry-wide effort to develop the standards and infrastructure required to effectively deploy, configure, and manage desktops, workstations, and notebook PCs. HP Client Management Solutions are an important aspect of our broad commitment to providing you with PC Lifecycle Solutions that assist you during the four phases of the desktop PC lifecycle—planning, deployment, management, and transitions.

The key capabilities and features of desktop management are:

- Initial configuration and deployment
- Remote system installation
- Software updating and management
- ROM flash
- Asset tracking and security
- Fault notification and recovery



Support for specific features described in this guide may vary by model or software version.

### **Initial Configuration and Deployment**

The computer comes with a preinstalled system software image. After a brief software "unbundling" process, the computer is ready to use.

You may prefer to replace the preinstalled software image with a customized set of system and application software. There are several methods for deploying a customized software image. They include:

- Installing additional software applications after unbundling the preinstalled software image.
- Using software deployment tools, such as Altiris Deployment Solution, 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 best deployment method depends on your information technology environment and processes. The PC Deployment section of the HP Lifecycle Solutions Web site (http://whp-sp-orig.extweb.hp.com/country/us/en/solutions.html) provides information to help you select the best deployment method.

The *Restore Plus!* CD, ROM-based setup, and ACPI hardware provide further assistance with recovery of system software, configuration management and troubleshooting, and power management.

### **Altiris Deployment Solution Agent**

If the computer is running Windows® XP Professional, Altiris Deployment Solution Agent is pre-loaded on the computer. When installed, it enables communication with the administrator Deployment Solution console.

To install Altiris Deployment Solution Agent:

- 1. Click Start.
- 2. Click All Programs.
- 3. Click Software Setup.
- 4. Click Next.
- 5. Scroll down and click on the link to install Altiris AClient.

### **Remote System Installation**

Remote System Installation allows you to set up the system using the software and configuration information located on a network server by initiating the Preboot Execution Environment (PXE). The Remote System Installation feature is usually used as a system setup and configuration tool, and can be used for the following tasks:

- Formatting a hard drive
- Deploying a software image on one or more new PCs
- Remotely updating the system BIOS in flash ROM ("Remote ROM Flash" on page 9)
- Configuring the system BIOS settings

To initiate Remote System Installation, press **F12** when the F12 = Network Service Boot message appears in the lower-right corner of the HP logo screen. Follow the instructions on the screen to continue the process. The default boot order is a BIOS configuration setting that can be changed to always attempt to PXE boot.

HP and Altiris have partnered to provide tools designed to make the task of corporate PC deployment and management easier and less time-consuming, ultimately lowering the total cost of ownership and making HP PCs the most manageable client PCs in the enterprise environment.

### **Software Updating and Management**

HP provides several tools for managing and updating software on desktops, workstations, and notebooks:

- HP Client Manager
- HP Client Foundation Suite
- HP Client Premium Suite
- HP System Software Manager
- Dantz Backup and Recovery
- HP Proactive Change Notification
- HP Subscriber's Choice

### **HP Client Manager**

HP Client Manager is available free for all supported HP business desktop, notebook, and workstation models. SSM is integrated into HP Client Manager, and enables central tracking, monitoring, and management of the hardware aspects of HP client systems. HP Client Manager provides tight integration with HP Instant Support tools to reduce hardware troubleshooting time. HP Instant support tools can be used to run diagnostics, system health scan, active chat, access to the HP Knowledgebase, as well as automated SoftPaq collection. HP Client Manager also integrates with HP ProtectTools to identify, inventory, and initialize TPM-enabled client systems.

HP Client Manager provides local alerting. Alerts, such as over-temp condition, SMART drive failure warnings, and so forth, can be made to appear on the local user's machine. The Administrator now has control over how alerts are handled locally at the client. The Administrator can control whether the client user can turn alerts on and off and what the user can do with an alert once it is received. The Administrator can also choose which alerts, if any, are displayed at the local HP client.

Use HP Client Manager to:

- Get valuable hardware information such as CPU, memory, video, and security settings
- Monitor system health to fix problems before they occur
- Automatically collect and remotely distribute SoftPaqs that will update the hardware's BIOS, drivers, and security settings
- Automate processes to quickly resolve hardware problems

HP Client Manager uses the same Altiris infrastructure as the other Altiris client lifecycle management solutions. This design provides a significant benefit for the IT staff, since only one infrastructure needs to be setup and maintained. Since information is stored in one database, you get complete and consistent inventory reports as well as system health and security information. You use a single, consistent console interface for scheduling and tracking progress of both hardware and software management tasks for your client systems.

For more information on HP Client Manager, visit http://h18000.www1.hp.com/im/client\_mgr.html.

### **HP Client Foundation Suite**

The Foundation Suite has at its core, the Altiris Migration Suite which consists of Altiris Inventory Solution and Deployment Solution. The foundation suite adds a Quickstart page make setup easier and shorten the time to getting value out of the software. The foundation suite also includes HP Client Manager and the HP Systems Insight Manager connector.

### **HP Client Premium Suite**

The Premium Suite has at its core the Altiris Client Management Suite, Level 1, adds a quickstart page, and the HP value-added solutions: HP Client Manager, HP Systems Insight Manager connector, and the HP OpenView Connector.

### **HP System Software Manager**

HP System Software Manager (SSM) is a free utility that automates remote deployment of device drivers and BIOS updates for your networked HP business PCs. When SSM runs, it silently (without user interaction) determines the revision levels of drivers and BIOS installed on each networked client system and compares this inventory against system software SoftPaqs that have been tested and stored in a central file store. SSM then automatically updates any down-revision system software on the networked PCs to the later levels available in the file store. Since SSM only allows distribution of SoftPaq updates to the correct client system models, administrators can confidently and efficiently use SSM to keep system software updated.

System Software Manager integrates with enterprise software distribution tools such as HP OpenView and Microsoft® Systems Management Server (SMS). Using SSM, you can distribute customer-created or third-party updates that have been packaged in the SSM-format.

SSM may be downloaded at no charge by visiting www.hp.com/go/ssm.

### **Dantz Retrospect Express**

Dantz Retrospect Express protects a single Windows desktop or notebook computer. Retrospect Express allows recovery from data loss due to viruses, newly installed software, user error, damaged hardware, hardware upgrades, hackers, and lost or stolen computers. It offers a choice between simple duplicates or progressive backups and an intuitive setup wizard to get you up and running in minutes. Retrospect Express comes with Disaster Recovery built into the product for the best protection available. Click here to view a list of hardware manufacturers who bundle Retrospect with their products and to learn where to buy these products.

Install Retrospect Express and perform your first backup in less than five minutes. With Retrospect, you can implement a backup plan by answering a few simple questions. Restores are quick and painless. When you need to perform a restore via optical CDs, Retrospect Express automatically locates files even if you do not know which piece of backup media contains the files.

Duplicate files and folders to an external hard drive with the push of a button. The duplicate operation copies information from the computer's hard drive to the external hard drive. (For external hard drives with a built-in backup button, duplicates can be initiated simply by pressing the button.) With duplicates, the files and folders on the external hard drive can be easily viewed, manipulated, and restored by using Windows Explorer. The duplication process saves space by overwriting any previous backup data on the external drive and saves time by copying only files that are new or that have changed since the last backup.

Back up multiple versions of files and folders. Progressive backups retain prior versions of files and folders and allow you to roll back a computer to any prior point in time before a data-corrupting event occurred. Each time a backup operation is performed, Retrospect Express creates a restore point, which can contain all the information a user needs to retrieve files or restore an entire computer (disaster recovery)—including all operating system files and settings, device drivers, and applications and their settings. Restore points are captured quickly and they provide 100% accurate restores to any point in time that a backup was performed—exceeding the capability of other backup software. Backup Express also supports Disaster Recovery, which allows you to restart and recover your system in the event of a catastrophic failure (such as a hard drive failure or loss of data to a virus). By booting from the Disaster Recovery CD, you can return your system to its previous state before it became unusable.

For more information on Dantz Retrospect Express, visit http://www.dantz.com/en/products/win\_express/index.dtml.

### **Proactive Change Notification**

The Proactive Change Notification program uses the Subscriber's Choice Web site in order to proactively and automatically:

- Send you Proactive Change Notification (PCN) E-mails informing you of hardware and software changes to most commercial computers and servers, up to 60 days in advance.
- Send you E-mail containing Customer Bulletins, Customer Advisories, Customer Notes, Security Bulletins, and Driver alerts for most commercial computers and servers.

You create your own profile to ensure that you only receive the information relevant to a specific IT environment. To learn more about the Proactive Change Notification program and create a custom profile, visit http://www.hp.com/go/pcn.

### Subscriber's Choice

Subscriber's Choice is a client-based service from HP. Based on your profile, HP will supply you with personalized product tips, feature articles, and/or driver and support alerts/notifications. Subscriber's Choice Driver and Support Alerts/Notifications will deliver E-mails notifying you that the information you subscribed to in your profile is available for review and retrieval. To learn more about Subscriber's Choice and create a custom profile, visit http://www.hp.com/go/pcn.

### **Retired Solutions**

The Desktop Management Task Force (DMTF) introduced the Desktop Management Interface (DMI) standard almost ten years ago. Due to new standards adoption such as the Common Information Model (CIM), the DMTF has initiated end-of-life for DMI. Given other advancements in HP Client Management Solutions, HP Systems Insight Manager, and Microsoft's implementation of CIM, known as Windows Management Instrumentation (WMI), the HP Insight Management Agent is no longer being provided on new HP commercial desktop, workstation, and notebook models introduced after January 1, 2004.

The Insight Management (IM) Agent provided the following features:

- DMI support allowed a client system to be managed by Insight Manager 7 or other DMI-compliant management applications.
- A Web agent allowed the system to be managed both locally and remotely by a web browser.
- Health alerting could notify the user locally or be sent to a central console.

Insight Manager has been replaced by HP Systems Insight Manager Software (HP SIM). HP SIM uses WMI to retrieve client system information. The Altiris Connector for HP Systems Insight Manager is available and enables the HP Client Management Solutions through the HP SIM console.

### **ROM Flash**

The computer comes with a programmable flash ROM (read only memory). By establishing a Supervisor password in the Computer Setup (F10) Utility, you can protect the ROM from being unintentionally updated or overwritten. This is important to ensure the operating integrity of the computer.

Should you need or want to upgrade the ROM, you may:

- Order an upgraded ROMPaq diskette from HP.
- Download the latest ROMPaq images from HP driver and support page, http://www.hp.com/support/files.



**CAUTION:** For maximum ROM protection, be sure to establish a Supervisor password. The Supervisor password prevents unauthorized ROM upgrades. System Software Manager allows the system administrator to set the Supervisor password on one or more PCs simultaneously. For more information, visit http://www.hp.com/go/ssm.

### **Remote ROM Flash**

Remote ROM Flash allows the system administrator to safely upgrade the ROM on remote HP computers directly from the centralized network management console. Enabling the system administrator to perform this task remotely, on multiple computers and personal computers, results in a consistent deployment of and greater control over HP PC ROM images over the network. It also results in greater productivity and lower total cost of ownership.



The computer must be powered on, or turned on through Remote Wakeup, to take advantage of Remote ROM Flash.

For more information on Remote ROM Flash, refer to the HP Client Manager Software or System Software Manager at http://h18000.www1.hp.com/im/prodinfo.html.

### FailSafe Boot Block ROM

The FailSafe Boot Block ROM allows for system recovery in the unlikely event of a ROM flash failure, for example, if a power failure were to occur during a ROM upgrade. The Boot Block is a flash-protected section of the ROM that checks for a valid system ROM flash when power to the system is turned on.

- If the system ROM is valid, the system starts normally.
- If the system ROM fails the validation check, the FailSafe Boot Block ROM provides enough support to start the system from a ROMPaq diskette, which will program the system ROM with a valid image.



Some models also support recovery from a ROMPaq CD.

When the boot block detects an invalid system ROM, 8 beeps will be heard. A Boot Block recovery mode message is displayed on the screen (some models).



The beeps continue through five cycles of 8 beeps and stops.

To recover the system after it enters Boot Block recovery mode, complete the following steps:

- 1. If there is a diskette in the diskette drive or a CD in the CD drive, remove the diskette and CD and turn off the power.
- 2. Insert a ROMPaq diskette into the diskette drive or, if permitted on this computer, a ROMPaq CD into the CD drive.
- 3. Turn on the computer.

If no ROMPaq diskette or ROMPaq CD is found, you will be prompted to insert one and restart the computer.

If a supervisor password has been established, the Caps Lock light will turn on and you will be prompted to enter the password.

4. Enter the supervisor password.

If the system successfully starts from the diskette or CD and successfully reprograms the ROM, a rising tone series of beeps signals successful completion.

- 5. Remove the diskette or CD and turn the power off.
- 6. Turn the power on again to restart the computer.

### **Replicating the Setup**

To replicate or copy one setup configuration to other computers of the same model, HP has provided a Windows-based software utility, System Software Manager, that can be downloaded from http://www.hp.com/go/ssm, plus a DOS-based software, CMOS Save/Load utility, that can be downloaded from http://www.hp.com/support/files. After logging on to the HP Support Web site, enter the name of your computer when prompted.

#### **Creating a Bootable Device**

### Supported USB Flash Media Device

Supported devices, such as an HP Drive Key, have a preinstalled image to simplify the process of making them bootable. If the USB flash media device being used does not have this image, use the procedure later in this section (see "Unsupported USB Flash Media Device" on page 13).



**CAUTION:** Not all computers can be booted from a USB flash media device. If the default boot order in the Computer Setup (F10) Utility lists the USB device before the hard drive, the computer can be booted from a USB flash media device. Otherwise, a bootable diskette must be used.

To create a bootable USB flash media device, you must have:

■ an HP Business Desktop dx5150 Series - Microtower, Small Form Factor, or Slim Tower.

Depending on the individual BIOS, future systems may also support booting to a USB flash media device.

- a 256MB HP Drive Key II storage module.
- A bootable DOS diskette with the FDISK and SYS programs. If SYS is not available, FORMAT may be used, but all existing files on the USB flash media device will be lost.
  - 1. Turn off the computer.
- 2. Insert the USB flash media device into one of the computer's USB ports and remove all other USB storage devices except USB diskette drives.
- 3. Insert a bootable DOS diskette with FDISK.COM and either SYS.COM or FORMAT.COM into a diskette drive and turn on the computer to boot to the DOS diskette.
- 4. Run FDISK from the A:\ prompt by typing **FDISK** and pressing **Enter.** If prompted, click **Yes** (**Y**) to enable large disk support.

5. Enter Choice [5] to display the drives in the system. The USB flash media device will be the drive that closely matches the size of one of the drives listed. It will usually be the last drive in the list. Note the letter of the drive.

USB flash media device drive: \_\_\_\_\_



**CAUTION:** If a drive does not match the USB flash media device, do not proceed. Data loss can occur. Check all USB ports for additional storage devices. If any are found, remove them, reboot the computer, and proceed from step 4. If none are found, either the system does not support the USB flash media device or the USB flash media device is defective. DO NOT proceed in attempting to make the USB flash media device bootable.

- 6. Exit FDISK by pressing the **Esc** key to return to the A:\ prompt.
- 7. If your bootable DOS diskette contains SYS.COM, go to step 8. Otherwise, go to step 9.
- 8. At the A:\ prompt, enter **SYS x:** where x represents the drive letter noted above.



**CAUTION:** Be sure that you have entered the correct drive letter for the USB flash media device.

After the system files have been transferred, SYS will return to the A:\ prompt. Go to step 13.

- 9. Copy any files you want to keep from your USB flash media device to a temporary directory on another drive (for example, the system's internal hard drive).
- 10. At the A:\ prompt, enter **FORMAT /S X:** where X represents the drive letter noted before.



**CAUTION:** Be sure that you have entered the correct drive letter for the USB flash media device.

FORMAT will display one or more warnings and ask you each time whether you want to proceed. Enter  $\mathbf{Y}$  each time. FORMAT will format the USB flash media device, add the system files, and ask for a Volume Label.

11. Press Enter for no label or enter one if desired.

- 12. Copy any files you saved in step 9 back to your USB flash media device.
- 13. Remove the diskette and reboot the computer. The computer will boot to the USB flash media device as drive C.



The default boot order varies from computer to computer, and it can be changed in the Computer Setup (F10) Utility.

If you have used a DOS version from Windows 9x, you may see a brief Windows logo screen. If you do not want this screen, add a zero-length file named LOGO.SYS to the root directory of the USB flash media device.

#### Unsupported USB Flash Media Device



**CAUTION:** Not all computers can be booted from a USB flash media device. If the default boot order in the Computer Setup (F10) Utility lists the USB device before the hard drive, the computer can be booted from a USB flash media device. Otherwise, a bootable diskette must be used.

To create a bootable USB flash media device, you must have:

 an HP Business Desktop dx5150 Series - Microtower, Small Form Factor or Slim Tower.

Depending on the individual BIOS, future systems may also support booting to a USB flash media device.

- A bootable DOS diskette with the FDISK and SYS programs. If SYS is not available, FORMAT may be used, but all existing files on the USB flash media device will be lost.
  - 1. If there are any PCI cards in the system that have SCSI, ATA RAID or SATA drives attached, turn off the computer and unplug the power cord.



**CAUTION:** The power cord MUST be unplugged.

2. Open the computer and remove the PCI cards.

- 3. Insert the USB flash media device into one of the computer's USB ports and remove all other USB storage devices except USB diskette drives. Close the computer cover.
- 4. Plug in the power cord and turn on the computer.
- 5. As soon as the computer is turned on, press and hold the **F10** key until you enter Computer Setup. Press **Enter** to bypass the title screen, if necessary.



If you do not press the **F10** key at the appropriate time, you must restart the computer and press and hold the **F10** key again to access the utility.

If you are using a PS/2 keyboard, you may see a Keyboard Error message—disregard it.

- 6. Go to **Integrated Peripherals** > **South OnChip IDE Device** to disable the PATA controller, and go to **Integrated Peripherals** > **South OnChip PCI Device** to disable the SATA controller. Exit setup, confirming the changes.
- 7. Insert a bootable DOS diskette with FDISK.COM and either SYS.COM or FORMAT.COM into a diskette drive and turn on the computer to boot to the DOS diskette.
- 8. Run FDISK and delete any existing partitions on the USB flash media device. Create a new partition and mark it active. Exit FDISK by pressing the **Esc** key.
- 9. If the system did not automatically restart when exiting FDISK, press **Ctrl+Alt+Del** to reboot to the DOS diskette.
- 10. At the A:\ prompt, type **FORMAT C: /S** and press **Enter.** Format will format the USB flash media device, add the system files, and ask for a Volume Label.
- 11. Press **Enter** for no label or enter one if desired.
- 12. Turn off the computer and unplug the power cord. Open the computer and re-install any PCI cards that were previously removed. Close the computer cover.
- 13. Plug in the power cord, remove the diskette, and turn on the computer.

- 14. As soon as the computer is turned on, press and hold the **F10** key until you enter Computer Setup. Press **Enter** to bypass the title screen, if necessary.
- 15. Go to **Integrated Peripherals > South OnChip IDE Device** and **Integrated Peripherals > South OnChip PCI Device** and re-enable the PATA and SATA controllers that were disabled in step 6.
- 16. Save the changes and exit. The computer will boot to the USB flash media device as drive C.



The default boot order varies from computer to computer, and it can be changed in the Computer Setup (F10) Utility. Refer to the *Computer Setup Guide* on the *Documentation CD* for instructions.

If you have used a DOS version from Windows 9x, you may see a brief Windows logo screen. If you do not want this screen, add a zero-length file named LOGO.SYS to the root directory of the USB flash media device.

### **Dual-State Power Button**

With Advanced Configuration and Power Interface (ACPI) enabled, the power button can function either as an on/off switch or as a standby button. The standby feature does not completely turn off power, but instead causes the computer to enter a low-power standby state. This allows you to power down quickly without closing applications and to return quickly to the same operational state without any data loss.

To change the power button's configuration, complete the following steps:

- 1. Left click on the **Start Button**, then select **Control Panel** > **Power Options.**
- 2. In the **Power Options Properties**, select the **Advanced** tab.
- 3. In the **Power Button** section, select **Standby**.

After configuring the power button to function as a standby button, press the power button to put the system in a very low power state (standby). Press the button again to quickly bring the system out of standby to full power status. To completely turn off all power to the system, press and hold the power button for four seconds.



**CAUTION:** Do not use the power button to turn off the computer unless the system is not responding; turning off the power without operating system interaction could cause damage to or loss of data on the hard drive.

### World Wide Web Site

HP engineers rigorously test and debug software developed by HP and third-party suppliers, and develop operating system specific support software, to ensure performance, compatibility, and reliability for HP computers.

When making the transition to new or revised operating systems, it is important to implement the support software designed for that operating system. If you plan to run a version of Microsoft Windows that is different from the version included with the computer, you must install corresponding device drivers and utilities to ensure that all features are supported and functioning properly.

HP has made the task of locating, accessing, evaluating, and installing the latest support software easier. You can download the software from http://www.hp.com/support.

The Web site contains the latest device drivers, utilities, and flashable ROM images needed to run the latest Microsoft Windows operating system on the HP computer.

### **Building Blocks and Partners**

HP management solutions integrate with other systems management applications, and are based on industry standards, such as:

- Web-Based Enterprise Management (WBEM)
- Windows Management Interface (WMI)
- Wake on LAN Technology
- ACPI
- SMBIOS
- Pre-boot Execution (PXE) support

### **Asset Tracking and Security**

Asset tracking features incorporated into the computer provide key asset tracking data that can be managed using HP Systems Insight Manager, HP Client Manager Software or other system management applications. Seamless, automatic integration between asset tracking features and these products enables you to choose the management tool that is best suited to the environment and to leverage the investment in existing tools.

HP also offers several solutions for controlling access to valuable components and information. ProtectTools Embedded Security, if installed, prevents unauthorized access to data and checks system integrity and authenticates third-party users attempting system access. (Refer to *HP ProtectTools Embedded Security Guide*, on the *Documentation CD* for more information.) A Security feature such as ProtectTools helps to prevent unauthorized access to the internal components of the personal computer. By disabling parallel, serial, or USB ports, or by disabling removable media boot capability, you can protect valuable data assets. Memory Change events can be automatically forwarded to system management applications to deliver proactive notification of tampering with a computer's internal components.



ProtectTools is available on some systems.

Manage security settings on the HP computer locally, using the Computer Setup Utilities. See the *Computer Setup (F10) Utility Guide* on the *Documentation CD* included with the computer for additional information and instructions on using the Computer Setup Utilities.

The following table and sections refer to managing security features of the computer locally through the Computer Setup (F10) Utilities.

Option	Description
Supervisor Password	Allows you to set and enable Supervisor (administrator) password.
	If the Supervisor password is set, it is required to change Computer Setup options, flash the ROM, and make changes to certain plug and play settings under Windows.
	See the <i>Troubleshooting Guide</i> on the <i>Documentation CD</i> fo more information.
User Password	Allows you to set and enable a User password.
	If the User password is set, it is required to access the computer when power is turned on.
	See the <i>Troubleshooting Guide</i> on the <i>Documentation CD</i> fo more information.
Device Security	Enables/disables serial ports, parallel port, front USB ports, system audio, and network controllers (some models).
Network Service Boot	Enables/disables the computer's ability to boot from an operating system installed on a network server. (Feature available on NIC models only; the network controller must reside on the PCI bus or be embedded on the system board.
System IDs	Allows you to set:
	<ul> <li>Asset tag (18-byte identifier) and ownership Tag (80-byte identifier displayed during POST).</li> </ul>
	<ul> <li>Chassis serial number or Universal Unique Identifier (UUID) number. The UUID can only be updated if the current chassis serial number is invalid. (These ID numbers are normally set in the factory and are used to uniquely identify the system.)</li> </ul>
	Keyboard locale setting (for example, English or German) fo System ID entry.
For more information ab Documentation CD.	out Computer Setup, see the Computer Setup (F10) Utility Guide on the

Support for security features may vary depending on the specific computer configuration.

### **Password Security**

The User password prevents unauthorized use of the computer by requiring entry of a password to access applications or data each time the computer is turned on or restarted. The Supervisor password specifically prevents unauthorized access to Computer Setup, and can also be used as an override to the User password. That is, when prompted for the User password, entering the Supervisor password instead will allow access to the computer.

A network-wide setup password can be established to enable the system administrator to log in to all network systems to perform maintenance without having to know the User password.

### Establishing a Supervisor Password Using Computer Setup

If the system is equipped with an embedded security device, refer to *HP ProtectTools Embedded Security Guide*, on the *Documentation CD*. Establishing a Supervisor password through Computer Setup prevents reconfiguration of the computer (use of the Computer Setup F10 utility) until the password is entered.

- 1. Turn on or restart the computer. If you are in Windows, click **Start > Shut Down > Restart.**
- 2. As soon as the computer is turned on, press and hold the **F10** key until you enter Computer Setup. Press **Enter** to bypass the title screen, if necessary.



If you do not press the **F10** key at the appropriate time, you must restart the computer and press and hold the **F10** key again to access the utility.

If you are using a PS/2 keyboard, you may see a Keyboard Error message—disregard it.

- 3. Select **Set Supervisor Password** and enter the password on the screen.
- 4. Before exiting, click File > Save Changes and Exit.

### Establishing a User Password Using Computer Setup

Establishing a User password through Computer Setup prevents access to the computer when power is turned on, unless the password is entered. When a User password is set, Computer Setup presents Password Options under the Security menu. Password options include Password Prompt on Warm Boot. When Password Prompt on Warm Boot is enabled, the password must also be entered each time the computer is rebooted.

- 1. Turn on or restart the computer. If you are in Windows, click **Start > Shut Down > Restart.**
- 2. As soon as the computer is turned on, press and hold the **F10** key until you enter Computer Setup. Press **Enter** to bypass the title screen, if necessary.



If you do not press the **F10** key at the appropriate time, you must restart the computer and press and hold the **F10** key again to access the utility.

If you are using a PS/2 keyboard, you may see a Keyboard Error message—disregard it.

- 3. Select **Set User Password** and enter the password on the screen.
- 4. Before exiting, click **File > Save Changes and Exit.**

#### **Entering a User Password**

To enter a User password, complete the following steps:

- 1. Turn on or restart the computer. If you are in Windows, click Start > Shut Down > Restart the Computer.
- 2. When the **Enter Password** box appears on the monitor, type the current password, then press **Enter.**



Type carefully; for security reasons, the characters you type do not appear on the screen.

If you enter the password incorrectly, the message "Invalid Password, Press any key to continue!" appears. Try again. After three unsuccessful tries, you must turn off the computer, then turn it on again before you can continue.

#### **Entering a Supervisor Password**

If the system is equipped with an embedded security device, refer to *HP ProtectTools Embedded Security Guide*, on the *Documentation CD*.

If a Supervisor password has been established on the computer, you will be prompted to enter it each time you run Computer Setup.

- 1. Turn on or restart the computer. If you are in Windows, click **Start > Shut Down > Restart.**
- 2. As soon as the computer is turned on, press and hold the **F10** key until you enter Computer Setup. Press **Enter** to bypass the title screen, if necessary.



If you do not press the **F10** key at the appropriate time, you must restart the computer and press and hold the **F10** key again to access the utility.

If you are using a PS/2 keyboard, you may see a Keyboard Error message—disregard it.

3. When the **Enter Password** box appears on the monitor, type the Supervisor password, then press **Enter**.



Type carefully; for security reasons, the characters you type do not appear on the screen.

If you enter the password incorrectly, the message "Invalid Password, Press any key to continue!" appears. Try again. After three unsuccessful tries, you must turn off the computer, then turn it on again before you can continue.

#### **Changing a User or Supervisor Password**

If the system is equipped with an embedded security device, refer to *HP ProtectTools Embedded Security Guide*, on the *Documentation CD*.

- 1. Turn on or restart the computer. If you are in Windows, click **Start > Shut Down > Restart the Computer**.
- 2. When the **Enter Password** box appears, type the current User password, if a password is required.
- 3. Press Enter.
- 4. Press and hold the **F10** key until you enter Computer Setup. Press **Enter** to bypass the title screen, if necessary.



If you do not press the **F10** key at the appropriate time, you must restart the computer and press and hold the **F10** key again to access the utility.

If you are using a PS/2 keyboard, you may see a Keyboard Error message—disregard it.

- 5. When the **Enter Password** box appears to access Computer Setup, type the current Supervisor password, if required.
- 6. Press Enter.
- 7. Select either Set Supervisor Password or Set User Password.
- 8. When the **Enter Password** box appears on the screen, type the new password and press **Enter**.
- 9. Before exiting, click **File > Save Changes and Exit**.



To delete a password instead of changing it, when the **Enter Password** box appears on the screen, press **Enter** instead of entering the new password. This deletes the current password.

#### **Clearing Passwords**

If you forget the password, you cannot access the computer. Refer to the *Troubleshooting Guide* on the *Documentation CD* for instructions on clearing passwords.

If the system is equipped with an embedded security device, refer to *HP ProtectTools Embedded Security Guide*, on the *Documentation CD*.

### **Cable Lock Provision**

The rear panel of the computer accommodates a cable lock so that the computer can be physically secured to a work area.

For illustrated instructions, please see the *Hardware Reference Guide* on the *Documentation CD*.

## **Fault Notification and Recovery**

Fault Notification and Recovery features combine innovative hardware and software technology to prevent the loss of critical data and minimize unplanned downtime.

If the computer is connected to a network managed by HP Client Manager Software, the computer sends a fault notice to the network management application. With HP Client Manager Software, you can also remotely schedule diagnostics to automatically run on all managed PCs and create a summary report of failed tests.

### **Surge-Tolerant Power Supply**

An integrated surge-tolerant power supply provides greater reliability when the computer is hit with an unpredictable power surge. This power supply is rated to withstand a power surge of up to 2000 volts without incurring any system downtime or data loss.

### **Thermal Sensor**

The thermal sensor is a hardware and software feature that tracks the internal temperature of the computer. This feature displays a warning message when the normal range is exceeded, which gives you time to take action before internal components are damaged or data is lost.

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