Security User Guide

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Product notice

This user guide describes features that are common to most models. Some features may not be available on your computer.

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1 Protecting the computer

NOTE: Security solutions are designed to act as deterrents. These deterrents may not prevent a product from being mishandled or stolen.

NOTE: Your computer supports CompuTrace, which is an online security-based tracking and recovery service available in select regions. If the computer is stolen, CompuTrace can track the computer if the unauthorized user accesses the Internet. You must purchase the software and subscribe to the service in order to use CompuTrace. For information about ordering the CompuTrace software, go to the HP Web site at http://www.hpshopping.com.

Security features provided with your computer can protect the computer, personal information, and data from a variety of risks. The way you use your computer will determine which security features you need to use.

The Windows® operating system offers certain security features. Additional security features are listed in the following table. Most of these additional security features can be configured in the Computer Setup utility (referred to hereafter as Computer Setup).

To protect against	Use this security feature HP ProtectTools Security Manager, in combination with a password, smart card, and/or fingerprint reader.	
Unauthorized use of the computer		
Unauthorized access to Computer Setup (f10)	BIOS administrator password in Computer Setup*	
Unauthorized access to the contents of a hard drive	DriveLock password in Computer Setup*	
Unauthorized startup from an optical drive, diskette drive, or internal network adapter	Boot options feature in Computer Setup*	
Unauthorized access to a Windows user account	HP ProtectTools Security Manager	
Unauthorized access to data	Firewall software	
	Windows updates	
	Drive Encryption for HP ProtectTools	
Unauthorized access to Computer Setup settings and other system identification information	BIOS administrator password in Computer Setup*	
Unauthorized removal of the computer	Security cable slot (used with an optional security cable)	

^{*}Computer Setup is a preinstalled, ROM-based utility that can be used even when the operating system is not working or will not load. You can use either a pointing device (TouchPad, pointing stick, or USB mouse) or the keyboard to navigate and make selections in Computer Setup.

2 Using passwords

Most security features use passwords. Whenever you set a password, write down the password and store it in a secure location away from the computer. Note the following password considerations:

- Setup and DriveLock passwords are set in Computer Setup and are managed by the system BIOS.
- The embedded security password, which is an HP ProtectTools Security Manager password, can be enabled in Computer Setup to provide BIOS password protection in addition to their normal HP ProtectTools functions. The embedded security password is used with the optional embedded security chip.
- Windows passwords are set only in the Windows operating system.
- If you forget the BIOS administrator password set in Computer Setup, you can use HP SpareKey to access the utility.
- If you forget both the DriveLock user password and the DriveLock master password set in Computer Setup, the hard drive that is protected by the passwords is permanently locked and can no longer be used.

You can use the same password for a Computer Setup feature and for a Windows security feature. You can also use the same password for more than one Computer Setup feature.

Use the following tips for creating and saving passwords:

- When creating passwords, follow requirements set by the program.
- Write down your passwords and store them in a secure place away from the computer.
- Do not store passwords in a file on the computer.

The following tables list commonly used Windows and BIOS administrator passwords and describe their functions.

Setting passwords in Windows

Windows passwords	Function	
Administrator password*	Protects access to a Windows administrator-level account.	
User password*	Protects access to a Windows user account.	
For information about setting a Windows administrator password or a Windows user password, select Start > Help and Support .		

Setting passwords in Computer Setup

BIOS administrator passwords	Function
BIOS administrator password	Protects access to Computer Setup.
DriveLock master password	Protects access to the internal hard drive that is protected by DriveLock. It is also used to remove DriveLock protection. This password is set under DriveLock Passwords during the enable process.
DriveLock user password	Protects access to the internal hard drive that is protected by DriveLock, and is set under DriveLock Passwords during the enable process.
TPM embedded security password	When enabled as a BIOS administrator password, protects access to the computer contents when the computer turns on, restarts, or exits Hibernation.
	This password requires the optional embedded security chip to support this security feature.

BIOS administrator password

The Computer Setup BIOS administrator password protects the configuration settings and system identification information in Computer Setup. After this password is set, it must be entered to access Computer Setup and to make changes using Computer Setup.

Note the following characteristics of the BIOS administrator password:

- It is not interchangeable with a Windows administrator password, although both passwords can be identical.
- It is not displayed as it is set, entered, changed, or deleted.
- It must be set and entered with the same keys. For example, a BIOS administrator password set with keyboard number keys will not be recognized if you enter it thereafter with embedded numeric keypad number keys.
- It can include any combination of up to 32 letters and numbers and is it is not case sensitive unless mandated by the administrator.

Managing a BIOS administrator password

A BIOS administrator password is set, changed, and deleted in Computer Setup.

To set or change this password in Computer Setup, follow these steps:

- Turn on or restart the computer, and then press esc while the "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen.
- Press f10 to enter BIOS Setup.
- Use a pointing device or the arrow keys to select Security > Change Password, and then press enter.
- When prompted, type your current password.
- When prompted, type your new password.
- 6. When prompted, type your new password again to confirm.
- 7. To save your changes and exit Computer Setup, click **Save** in the lower-left corner of the screen, and then follow the on-screen instructions.
 - or -

Use the arrow keys to select **File > Save changes and exit**, and then press enter.

Your changes go into effect when the computer restarts.

To delete this password in Computer Setup, follow these steps:

- Turn on or restart the computer, and then press esc while the "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen.
- Press f10 to enter BIOS Setup.
- 3. Use a pointing device or the arrow keys to select **Security > Change Password**, and then press enter.
- 4. When prompted, type your current password.
- 5. When prompted for the new password, leave the field empty, and then press enter.
- 6. Read the warning. To continue, select YES.
- 7. When prompted to type your new password again, leave the field empty, and then press enter.
- **8.** To save your changes and exit Computer Setup, click **Save** in the lower-left corner of the screen, and then follow the on-screen instructions.
 - or –

Use the arrow keys to select **File > Save changes and exit**, and then press enter.

Entering a BIOS administrator password

At the **BIOS administrator password** prompt, type your password (using the same kind of keys you used to set the password), and then press <u>enter</u>. After 3 unsuccessful attempts to enter the BIOS administrator password, you must restart the computer and try again.

Using Computer Setup DriveLock

△ CAUTION: To prevent the DriveLock-protected hard drive from becoming permanently unusable, record the DriveLock user password and the DriveLock master password in a safe place away from your computer. If you forget both DriveLock passwords, the hard drive will be permanently locked and can no longer be used.

DriveLock protection prevents unauthorized access to the contents of a hard drive. DriveLock can be applied only to the internal hard drive(s) of the computer. After DriveLock protection is applied to a drive, a password must be entered to access the drive. The drive must be inserted into the computer or an advanced port replicator in order for it to be accessed by the DriveLock passwords.

To apply DriveLock protection to an internal hard drive, a user password and a master password must be set in Computer Setup. Note the following considerations about using DriveLock protection:

- After DriveLock protection is applied to a hard drive, the hard drive can be accessed only by entering either the user password or the master password.
- The owner of the user password should be the day-to-day user of the protected hard drive. The owner of the master password may be either a system administrator or the day-to-day user.
- The user password and the master password can be identical.
- You can delete a user password or master password only by removing DriveLock protection from the drive. DriveLock protection can be removed from the drive only with the master password.

Setting a DriveLock password

To set a DriveLock password in Computer Setup, follow these steps:

- 1. Turn on the computer, and then press esc while the "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen.
- 2. Press f10 to enter BIOS Setup.
- Use a pointing device or the arrow keys to select Security > DriveLock passwords, and then press enter.
- 4. Use a pointing device to click the hard drive you want to protect.
 - or -

Use the arrow keys to select the hard drive you want to protect, and then press enter.

- **5.** Read the warning. To continue, select **YES**.
- Type your master password in the New password and Verify new password fields, and then press enter.
- Type your user password in the New password and Verify new password fields, and then press enter.
- 8. To confirm DriveLock protection on the drive you have selected, type DriveLock in the confirmation field, and then press enter.
- NOTE: The DriveLock confirmation is case sensitive.
- 9. To save your changes and exit Computer Setup, click **Save** in the lower-left corner of the screen, and then follow the on-screen instructions.
 - or -

Use the arrow keys to select **File > Save changes and exit**, and then press enter.

Entering a DriveLock password

Be sure that the hard drive is inserted into the computer (not into an optional docking device or external MultiBay).

At the **DriveLock Password** prompt, type your user or master password (using the same kind of keys you used to set the password), and then press enter.

After 2 incorrect attempts to enter the password, you must shut down the computer and try again.

Changing a DriveLock password

To change a DriveLock password in Computer Setup, follow these steps:

- 1. Turn on the computer, and then press esc while the "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen.
- 2. Press f10 to enter BIOS Setup.
- Use a pointing device or the arrow keys to select Security > DriveLock passwords, and then press enter.
- 4. Use a pointing device to select an internal hard drive.

- or -

Use the arrow keys to select an internal hard drive, and then press enter.

- 5. Use a pointing device or the arrow keys to select the password you want to change.
- Type your current password in the Old password field, type a new password in the New password and Verify new password fields, and then press enter.
- To save your changes and exit Computer Setup, click Save in the lower-left corner of the screen, and then follow the on-screen instructions.

- or -

Use the arrow keys to select **File > Save changes and exit**, and then press enter.

Removing DriveLock protection

To remove DriveLock protection in Computer Setup, follow these steps:

- 1. Turn on the computer, and then press esc while the "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen.
- 2. Press f10 to enter BIOS Setup.
- Use a pointing device or the arrow keys to select Security > DriveLock password, and then press enter.
- 4. Use a pointing device or the arrow keys to select an internal hard drive, and then press enter.
- 5. Use a pointing device or the arrow keys to select **Disable protection**.
- 6. Type your master password, and then press enter.
- 7. To save your changes and exit Computer Setup, click **Save** in the lower-left corner of the screen, and then follow the on-screen instructions.

- or -

Use the arrow keys to select **File > Save changes and exit**, and then press enter.

Using Computer Setup Auto DriveLock

In a multiple-user environment, you can set an Automatic DriveLock password. When the Automatic DriveLock password is enabled, a random user password and a DriveLock master password will be created for you. When any user passes the password credential, the same random user and DriveLock master password will be used to unlock the drive.

NOTE: You must have a BIOS administrator password before you can access the Automatic DriveLock features.

Entering an Automatic DriveLock password

To enable an Automatic DriveLock password in Computer Setup, follow these steps:

- Turn on or restart the computer, and then press esc while the "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen.
- 2. Press f10 to enter BIOS Setup.
- 3. Use a pointing device or the arrow keys to select **Security > Automatic DriveLock**, and then press enter.
- 4. Use a pointing device or the arrow keys to select an internal hard drive, and then press enter.
- **5.** Read the warning. To continue, select **YES**.
- **6.** To save your changes and exit Computer Setup, click **Save** in the lower-left corner of the screen, and then follow the on-screen instructions.

- or -

Use the arrow keys to select **File > Save changes and exit**, and then press enter.

Removing Automatic DriveLock protection

To remove DriveLock protection in Computer Setup, follow these steps:

- 1. Turn on or restart the computer, and then press esc while the "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen.
- 2. Press f10 to enter BIOS Setup.
- Use a pointing device or the arrow keys to select Security > Automatic DriveLock, and then press enter.
- 4. Use a pointing device or the arrow keys to select an internal hard drive, and then press enter.
- 5. Use a pointing device or the arrow keys to select **Disable protection**.
- To save your changes and exit Computer Setup, click Save in the lower-left corner of the screen, and then follow the on-screen instructions.

– or –

Use the arrow keys to select **File > Save changes and exit**, and then press enter.

3 Using Computer Setup security features

Securing system devices

You can disable or enable system devices from the following menus in Computer Setup:

- Boot Options
- Device Configurations
- Built-In Device Options
- Port Options

To disable or reenable system devices in Computer Setup, follow these steps:

- Turn on or restart the computer, and then press esc while the "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen.
- Press f10 to enter BIOS Setup.
- Use a pointing device or the arrow keys to select System Configuration > Boot Options, or System Configuration > Device Configurations or, System Configuration > Built-In Device Options, or System Configuration > Port Options.
- Press enter.
- 5. To disable an option, use a pointing device to click **Disabled** next to the option.
 - or –

Use the arrow keys to select **Disabled** next to the option, and then press enter.

6. To reenable an option, use a pointing device to click **Enabled** next to the option.

- or -

Use the arrow keys to select **Enabled** next to the option, and then press enter.

To save your changes and exit Computer Setup, click Save in the lower-left corner of the screen, and then follow the on-screen instructions.

– or –

Use the arrow keys to select **File > Save changes and exit**, and then press enter.

Viewing Computer Setup System Information

The System Information feature in Computer Setup provides 2 types of system information:

- Identification information about the computer model and the batteries.
- Specification information about the processor, cache, memory, ROM, video revision, and keyboard controller revision.

To view this general system information in Computer Setup, follow these steps:

- 1. Turn on or restart the computer, and then press esc while the "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen.
- 2. Press f10 to enter BIOS Setup.
- Use a pointing device or the arrow keys to select File > System Information, and then press enter.
- NOTE: To prevent unauthorized access to this information, you must create a BIOS administrator password in Computer Setup.

Using Computer Setup System IDs

The System IDs feature in Computer Setup allows you to display or enter the computer asset tag and ownership tag.

NOTE: To prevent unauthorized access to this information, you must create a BIOS administrator password in Computer Setup.

To manage this feature in Computer Setup, follow these steps:

- 1. Turn on or restart the computer, and then press esc while the "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen.
- Press f10 to enter BIOS Setup.
- 3. Use a pointing device or the arrow keys to select **Security > System IDs**, and then press enter.
- 4. Use a pointing device or the arrow keys to select **Notebook Asset Tag** or **Notebook Ownership Tag**, and then enter the information.
- Press enter when finished.
- To save your changes and exit Computer Setup, click Save in the lower-left corner of the screen, and then follow the on-screen instructions.

– or –

Use the arrow keys to select **File > Save changes and exit**, and then press enter.

4 Using antivirus software

When you use the computer to access e-mail, a network, or the Internet, you expose the computer to computer viruses. Computer viruses can disable the operating system, programs, or utilities, or cause them to function abnormally.

Antivirus software can detect most viruses, destroy them, and in most cases, repair any damage they have caused. To provide ongoing protection against newly discovered viruses, antivirus software must be kept up to date.

McAfee Total Protection antivirus software is either preinstalled or preloaded on the computer.

If the antivirus software is preinstalled, select **Start > All Programs > McAfee > Managed Services > Total Protection**.

If the software is preloaded, select **Start > All Programs > HP Software Setup**, and then follow the instructions on the screen to load the **McAfee Total Protection** software.

For more information about computer viruses, type viruses in the Search box in Help and Support.

5 Using firewall software

When you use the computer to access e-mail, a network, or the Internet, unauthorized persons may be able to gain access to the computer, your personal files, and information about you. Use the firewall software preinstalled on the computer to protect your privacy. McAfee Total Protection antivirus software is preinstalled on the computer. To access your software, select **Start > All Programs > McAfee > Managing Services > Total Protection**.

Firewall features include logging and reporting of network activity, and automatic monitoring of all incoming and outgoing traffic. For more information, refer to the software manufacturer's instructions. These instructions may be provided with the software, on disc, or on the manufacturer's Web site.

NOTE: Under some circumstances a firewall can block access to Internet games, interfere with printer or file sharing on a network, or block authorized e-mail attachments. To temporarily resolve the problem, disable the firewall, perform the task that you want to perform, and then reenable the firewall. To permanently resolve the problem, reconfigure the firewall as necessary, and adjust the policies and settings of other intrusion detection systems. For additional information, contact your network administrator or IT department.

6 Installing critical security updates

△ CAUTION: Microsoft sends alerts regarding critical updates. To protect the computer from security breaches and computer viruses, install all critical updates from Microsoft as soon as you receive an alert.

Updates to the operating system and other software may have become available *after* the computer was shipped. To be sure that all available updates are installed on the computer, observe these guidelines:

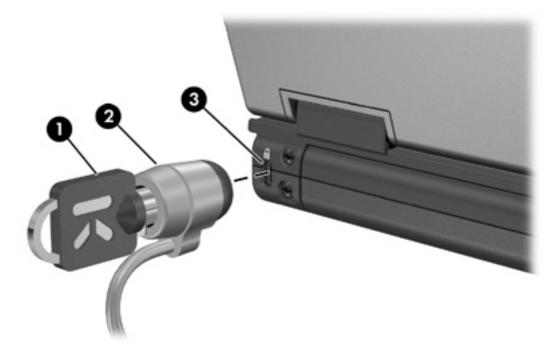
- Run Windows Update monthly to install the latest software from Microsoft.
- Obtain updates, as they are released, from the Microsoft Web site and through the updates link in Help and Support.

7 Using HP ProtectTools Security Manager (select models only)

HP ProtectTools Security Manager software is preinstalled on select computer models. This software can be accessed through Windows Control Panel. It provides security features that help protect against unauthorized access to the computer, networks, and critical data. For more information, refer to the HP ProtectTools online Help.

8 Installing a security cable

- NOTE: A security cable is designed to act as a deterrent, but it may not prevent the computer from being mishandled or stolen.
 - 1. Loop the security cable around a secured object.
 - 2. Insert the key (1) into the cable lock (2).
 - 3. Insert the cable lock into the security cable slot on the computer (3), and then lock the cable lock with the key.



NOTE: Your computer may look different from the illustration. The location of the security cable slot varies by computer model.

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