



# TravelMate P Series

## User's Manual

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TravelMate P Series

Covers: TravelMate P446-M

This revision: October 2014

## Sign up for an Acer ID and enjoy great benefits

1. Ensure you are connected to the Internet.
2. Open [www.acer.com](http://www.acer.com) and select your country.
3. Click **REGISTER A PRODUCT**.
4. Sign up for an Acer ID or sign in if you already have an Acer ID.

## Register your Acer product

After we receive your product registration, you will be sent a confirmation email with important data. Keep this email in a safe place.

## Manage your registered products

Once you have completed the registration process, you can log onto **account.acer.com** using your Acer ID and password to see and manage all your registered products.

**Note:** *It may take a few days for your information to be updated to the database.*



### Important

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Model number: \_\_\_\_\_

Serial number: \_\_\_\_\_

Date of purchase: \_\_\_\_\_

Place of purchase: \_\_\_\_\_

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# Getting started...

## In this section you will find:

- Useful information on caring for your computer and your health
- Where to find the power button, ports and connectors
- Tips and tricks for using the touchpad and keyboard
- How to create recovery backups
- Guidelines for connecting to a network and using Bluetooth
- Information on using Acer's bundled software

# FIRST THINGS FIRST

---

We would like to thank you for making this Acer notebook your choice for meeting your mobile computing needs.

## Your guides

To help you use your Acer notebook, we have designed a set of guides:

First off, the **Setup Guide** helps you get started with setting up your computer.

The **Quick Guide** introduces you to the basic features and functions of your new computer. For more on how your computer can help you to be more productive, please refer to the **User's Manual**. This guide contains detailed information on such subjects as system utilities, data recovery, expansion options and troubleshooting. In addition it contains general regulations and safety notices for your notebook. It is available from the desktop; double-click the Help icon and click **User's Manual** in the menu that opens.

## Basic care and tips for using your computer

### Turning your computer off

To turn the power off, do any of the following:

- Use the Windows shutdown command: Press the *Windows key + <C>*, click **Settings > Power** then click **Shut Down**.

If you need to power down the computer for a short while, but don't want to completely shut it down, you can put it into *Hibernate* by pressing the power button.

You can also put the computer in sleep mode by pressing the sleep hotkey **<Fn> + <F4>**.



### Note

*If you cannot power off the computer normally, press and hold the power button for more than four seconds to shut down the computer. If you turn off the computer and want to turn it on again, wait at least two seconds before powering up.*

## Taking care of your computer

Your computer will serve you well if you take care of it.

- Do not expose the computer to direct sunlight. Do not place it near sources of heat, such as a radiator.
- Do not expose the computer to temperatures below 0° C (32° F) or above 50° C (122° F).
- Do not subject the computer to magnetic fields.
- Do not expose the computer to rain or moisture.
- Do not spill water or any liquid on the computer.
- Do not subject the computer to heavy shock or vibration.
- Do not expose the computer to dust or dirt.
- Never place objects on top of the computer.
- Do not slam the computer display when you close it.
- Never place the computer on uneven surfaces.

## Taking care of your AC adapter

Here are some ways to take care of your AC adapter:

- Do not connect the adapter to any other device.
- Do not step on the power cord or place heavy objects on top of it. Carefully route the power cord and any cables away from foot traffic.
- When unplugging the power cord, do not pull on the cord itself but pull on the plug.
- The total ampere ratings of the equipment plugged in should not exceed the ampere rating of the cord if you are using an extension

cord. Also, the total current rating of all equipment plugged into a single wall outlet should not exceed the fuse rating.

## Cleaning and servicing

When cleaning the computer, follow these steps:

1. Turn off the computer.
2. Disconnect the AC adapter.
3. Use a soft, moist cloth. Do not use liquid or aerosol cleaners.

If either of the following occurs:

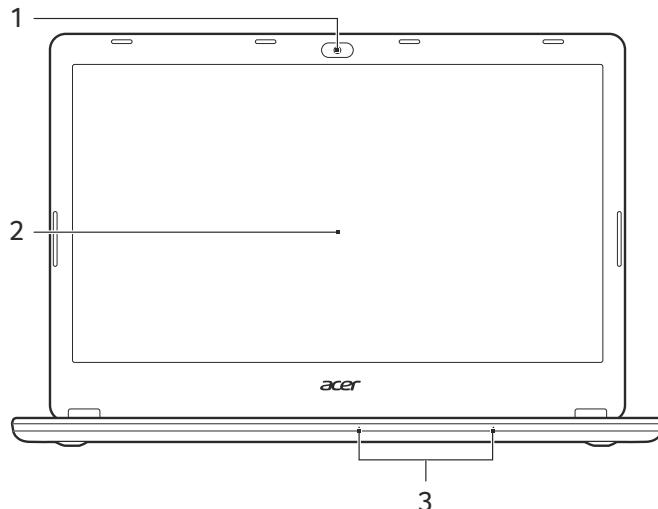
- The computer has been dropped or the body has been damaged;
- The computer does not operate normally

**See Frequently asked questions on page 67.**

# YOUR ACER NOTEBOOK TOUR

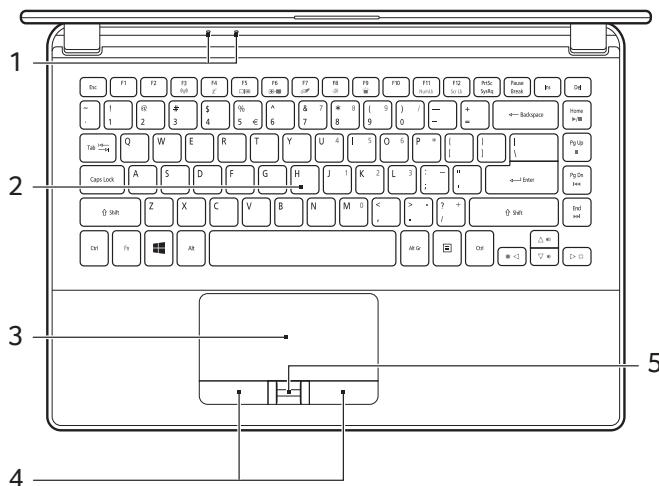
After setting up your computer as illustrated in the Setup Guide, let us show you around your new Acer computer.

## Screen view



#	Icon	Item	Description
1	Webcam	Webcam	Web camera for video communication. <i>A light next to the webcam indicates that the webcam is active.</i>
2	Screen	Screen	Displays computer output.
3	Microphones	Microphones	Internal stereo microphones for sound recording.

## Keyboard view



#	Icon	Item	Description
	💡	Power indicator	Indicates the computer's power status.
1	⚡	Battery indicator	Indicates battery status. <b>Charging:</b> The light is amber when the battery is charging. <b>Fully charged:</b> The light is blue.
2		Keyboard	For entering data into your computer. See " <b>Using the keyboard</b> " on page <b>14</b> .
3		Touchpad	<i>Do not use a keyboard protector or similar cover as the keyboard includes ventilation intakes for cooling.</i>
4		Click buttons (left and right)	Touch-sensitive pointing device, which functions like a computer mouse.
			The left and right side of the button function as left and right selection buttons.

#	Icon	Item	Description
5	fingerprint reader		Fingerprint reader for Acer ProShield Security Suite. <i>Configuration may vary by model.</i>

## Left view

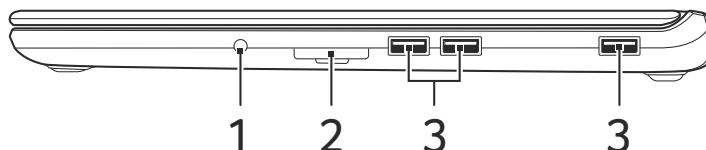


#	Icon	Item	Description
1	■■■	DC-in jack	Connects to an AC adapter.
2	•↔+	USB port	Connects to USB devices.
3	⊕	Power button	Turns the computer on and off.

## Information on USB 3.0

- USB 3.0 compatible ports are blue.
- Compatible with USB 3.0 and earlier devices.
- For optimal performance, use USB 3.0-certified devices.
- Defined by the USB 3.0 specification (SuperSpeed USB).

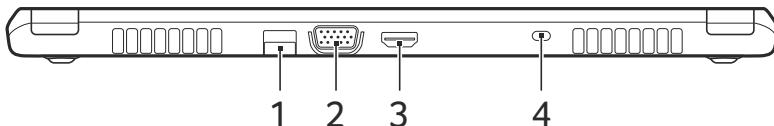
## Right view



#	Icon	Item	Description
1	⌚	Headset/speaker jack	Connects to audio devices (e.g., speakers, headphones) or a headset with microphone.

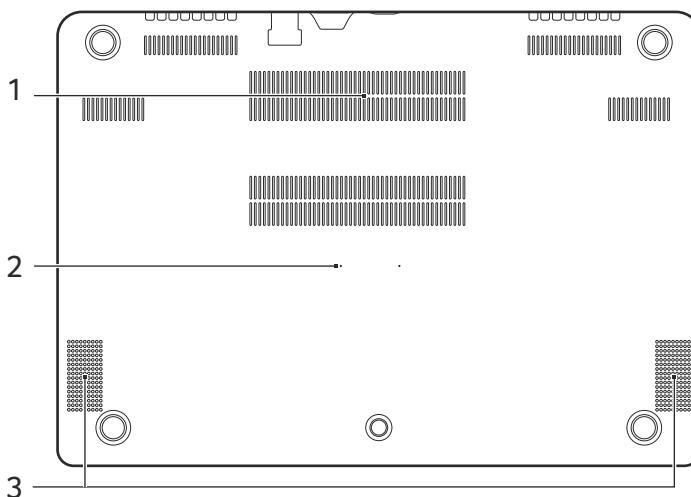
#	Icon	Item	Description
2		SD card reader	Accepts one Secure Digital card (SD or SDHC). <i>Push to remove/install the card.</i> <i>Only one card can operate at any given time.</i>
3		USB ports	Connect to USB devices.

## Rear view



#	Icon	Item	Description
1		Ethernet (RJ-45) port	Connects to an Ethernet 10/100/1000-based network.
1		External display (VGA) port	Connects to a display device (e.g., external monitor, LCD projector).
3		HDMI port	Supports high-definition digital video connections.
4		Kensington lock slot	Connects to a Kensington-compatible computer security lock. <i>Wrap the computer security lock cable around an immovable object such as a table or handle of a locked drawer.</i> <i>Insert the lock into the notch and turn the key to secure the lock.</i> <i>Keyless models are also available.</i>

## Base view



#	Icon	Item	Description
1		Ventilation and cooling fan	Allows the computer to stay cool. <i>Do not cover or obstruct the openings.</i>
2		Battery reset pinhole	Simulates removing and reinstalling the battery. <i>Insert a paperclip into the hole and press for four seconds.</i>
3		Speakers	Deliver stereo audio output.

# USING THE KEYBOARD

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The keyboard has full-sized keys and an embedded numeric keypad, separate cursor, lock, Windows, function and special keys.

## Lock keys and embedded numeric keypad

The keyboard has three lock keys which you can toggle on and off.

Lock key	Description
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase.
Num Lock	When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /).
<Fn> + <F11>	Use this mode when you need to do a lot of numeric data entry. A better solution would be to connect an external keypad.
Scroll Lock	When Scroll Lock is on, the screen moves one line up or down when you press the up or down arrow keys respectively. Scroll Lock does not work with some applications.
<Fn> + <F12>	

The embedded numeric keypad functions like a desktop numeric keypad. It is indicated by small characters located on the upper right corner of the keycaps. To simplify the keyboard legend, cursor-control key symbols are not printed on the keys.

Desired access	Num Lock on	Num Lock off
Number keys on embedded keypad	Type numbers in a normal manner.	
Cursor-control keys on embedded keypad	Hold <Shift> while using cursor-control keys.	Hold <Fn> while using cursor-control keys.
Main keyboard keys	Hold <Fn> while typing letters on embedded keypad.	Type the letters in a normal manner.

## Hotkeys

The computer employs hotkeys or key combinations to access most of the computer's controls like screen brightness and volume output.

To activate hotkeys, press and hold the **<Fn>** key before pressing the other key in the hotkey combination.

Hotkey	Icon	Function	Description
<b>&lt;Fn&gt; + &lt;F3&gt;</b>		Airplane mode	Turns on / off the computer's network devices.
<b>&lt;Fn&gt; + &lt;F4&gt;</b>		Sleep	Puts the computer in Sleep mode.
<b>&lt;Fn&gt; + &lt;F5&gt;</b>		Display toggle	Switches display output between the display screen, external monitor (if connected) and both.
<b>&lt;Fn&gt; + &lt;F6&gt;</b>		Display off	Turns the display screen backlight off to save power. Press any key to return.
<b>&lt;Fn&gt; + &lt;F7&gt;</b>		Touchpad toggle	Turns the built-in touchpad on and off.
<b>&lt;Fn&gt; + &lt;F8&gt;</b>		Speaker toggle	Turns the speakers on and off.
<b>&lt;Fn&gt; + &lt;F9&gt;</b>		Keyboard backlight	Turns the keyboard backlight on and off. <i>Also adjusts the backlight brightness.</i>
<b>&lt;Fn&gt; + &lt;F11&gt;</b>		NumLk	Turns the embedded numeric keypad on or off.
<b>&lt;Fn&gt; + &lt;F12&gt;</b>		Scr Lk	Turns the scroll lock feature on or off.
<b>&lt;Fn&gt; + &lt;↑&gt;</b>		Brightness up	Increases the screen brightness.
<b>&lt;Fn&gt; + &lt;↓&gt;</b>		Brightness down	Decreases the screen brightness.
<b>&lt;Fn&gt; + &lt;△&gt;</b>		Volume up	Increases the sound volume.
<b>&lt;Fn&gt; + &lt;▽&gt;</b>		Volume down	Decreases the sound volume.

<b>Hotkey</b>	<b>Icon</b>	<b>Function</b>	<b>Description</b>
<Fn> + <Home>	▶/II	Play/Pause	Play or pause a selected media file.
<Fn> + <Pg Up>	■	Stop	Stop playing the selected media file.
<Fn> + <Pg Dn>	◀◀	Previous	Return to the previous media file.
<Fn> + <End>	▶▶	Next	Jump to the next media file.

## Windows keys

The keyboard has two keys that perform Windows-specific functions.

<b>Key</b>	<b>Description</b>
 Windows key	Pressed alone it returns to the Start screen or to return to the last open app. It can also be used with other keys for special functions, please check Windows Help.
 Application key	This key has the same effect as clicking the right mouse button; it opens the application's context menu.

# TOUCHPAD

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## Touchpad basics

The touchpad controls the arrow (or 'cursor') on the screen. As you slide your finger across the touchpad, the cursor will follow this movement.

Press the left or right side of the button located beneath the touchpad to perform selection and execution functions, or tap the surface of the touchpad. These two areas are similar to the left and right buttons on a mouse.



### Note

*The touchpad is sensitive to finger movement; the lighter the touch, the better the response. Please keep the touchpad and your fingers dry and clean.*

The cursor is controlled by some basic gestures:

- **Single-finger slide:** Slide a finger across the touchpad to move the cursor.
- **Single-finger tap:** Lightly tap the touchpad with your finger, to perform a 'click', which will select or start an item. Quickly repeat the tap to perform a double tap or 'double click'.
- **Drag:** Press and hold the left side of the selection button, or tap twice anywhere on the touchpad, then slide a second finger across the touchpad to select all items in an area.



## Touchpad gestures

Windows 8.1 and many applications support touchpad gestures that use one or more fingers.



### Note

*Support for touchpad gestures depends on the active application.*

These allow you to control applications with a few simple gestures, such as:

- **Swipe in from edge:** Access Windows tools by swiping into the center of the touchpad from the right or left edge.
  - **Swipe in from right:** Toggle the charms.
  - **Swipe in from left:** Switch to the previous app.
- **Two-finger slide:** Swiftly scroll through web pages, documents and playlists by placing two fingers on the touchpad and moving both in any direction.
- **Two-finger pinch:** Zoom in and out of photos, maps and documents with a simple finger-and-thumb gesture.



# RECOVERY

If you are having trouble with your computer, and the frequently asked questions ([see Frequently asked questions on page 59](#)) do not help, you can 'recover' your computer - i.e. return it to an earlier state.

This section describes the recovery tools available on your computer. Acer provides *Acer Recovery Management*, which allows you to create a *recovery backup*, a *drivers and applications backup*, and to start recovery options, either using Windows tools, or the recovery backup.



## Note

*Acer Recovery Management is only available with a pre-installed Windows operating system.*



## Important

We recommend that you create a Recovery Backup and Drivers and Applications Backup and as soon as possible.  
In certain situations a full recovery will require a USB recovery backup.

## Creating a recovery backup

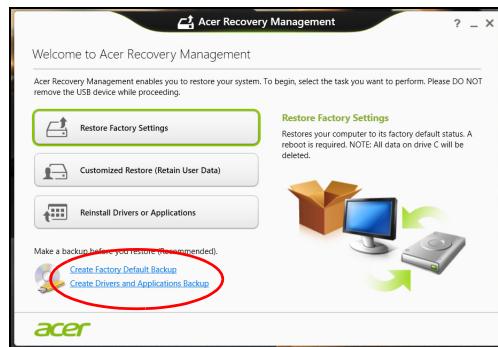
To reinstall from a USB storage drive, you must first create a recovery backup. The recovery backup includes the entire original contents of your computer's hard drive, including Windows and all factory-loaded software and drivers. Using this backup will restore your computer to the same state as when you purchased it, while giving you an option to retain all settings and personal data.



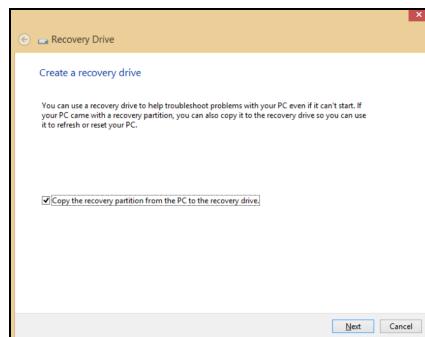
## Note

*Since the recovery backup requires at least 16 GB of storage after formatting, it is recommended to use a USB drive with a capacity of 32 GB or larger.*

1. From *Start*, type 'Recovery' and then click **Acer Recovery Management** in the list of apps.



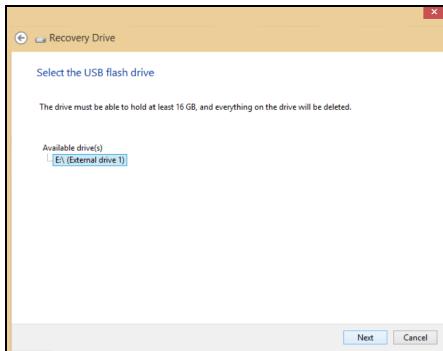
2. Click **Create Factory Default Backup**. The *Recovery Drive* window opens.



Make sure **Copy contents from the recovery partition to the recovery drive** is selected. This provides the most complete and safest recovery backup.

3. Plug in the USB drive then click **Next**.

- Since the recovery backup requires at least 16 GB of storage after formatting, it is recommended to use a USB drive with a capacity of 32 GB or larger.



4. You will be shown the backup progress on the screen.
5. Follow the process until it completes.
6. After creating the recovery backup, you can choose to delete the recovery information on your computer. If you delete this information, you can only use the USB recovery backup to restore your computer, if you lose or erase the USB drive, you cannot restore your computer.
7. Unplug the USB drive and label it clearly.



#### Important

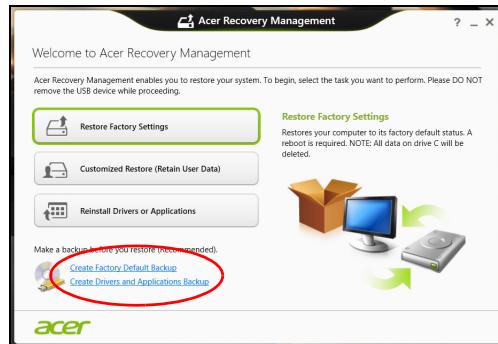
Write a unique, descriptive label on the backup, such as 'Windows Recovery Backup'. Make sure you keep the backup in a safe place that you will remember.

## Creating a drivers and applications backup

To create a Drivers and Applications Backup, that contains the factory-loaded software and drivers needed by your computer, you

may use either a USB storage drive or, if your computer features a DVD recorder, one or more blank recordable DVDs.

- From *Start*, type 'Recovery' and then click **Acer Recovery Management** in the list of apps.



- Click **Create Drivers and Applications Backup**.

Plug in the USB drive or insert a blank DVD into the optical drive, then click **Next**.

- If you are using a USB drive, make sure your USB drive has enough capacity before continuing.
- If using DVDs, it will also show the number of blank, recordable discs you will need to complete the recovery discs. Make sure that you have the required number of identical, blank discs.



- Click **Start** to copy files. You will be shown the backup progress on the screen.

- Follow the process until it completes:

- If you are using optical discs, the drive ejects each disc as it completes burning it. Remove the disc from the drive and mark it

with a permanent marker.

If multiple discs are required, insert a new disc when prompted, then click **OK**. Continue until the process is complete.

- If you are using a USB drive, unplug the drive and label it clearly.



### Important

Write a unique, descriptive label on each backup, such as 'Drivers and Applications Backup'. Make sure you keep the backup in a safe place that you will remember.

## Recovering your system

To recover your system:

### 1. Perform minor fixes.

If only one or two items of software or hardware have stopped working correctly, the problem may be solved by reinstalling the software or the device drivers.

To reinstall software and drivers that were pre-installed at the factory, [see Reinstalling drivers and applications on page 24](#).

For instructions on reinstalling software and drivers that were not pre-installed, see that product's documentation or support Web site.

### 2. Revert to a previous system condition.

If reinstalling software or drivers does not help, then the problem may be solved by returning your system to a previous state when everything was working correctly.

For instructions, [see Returning to an earlier system snapshot on page 26](#).

### 3. Reset your operating system.

If nothing else has solved the problem and you want to reset your system, but keep your user information, [see Returning your system to its factory condition on page 27](#).

### 4. Reset your system to its factory condition.

If nothing else has solved the problem and you want to reset your system to factory condition, [see Returning your system to its factory condition on page 27](#).

## Reinstalling drivers and applications

As a troubleshooting step, you may need to reinstall the applications and device drivers that came pre-installed on your computer from the factory. You can reinstall using either your hard drive or the backup you have created.

- Other applications - If you need to reinstall software that did not come pre-installed on your computer, you need to follow that software's installation instructions.
- New device drivers - If you need to reinstall device drivers that did not come pre-installed on your computer, follow the instructions provided with the device.

*If you are reinstalling using Windows and the recovery information stored on your computer:*

1. From Start, type 'Recovery' and then click **Acer Recovery Management** in the list of apps.



2. Click **Reinstall Drivers or Applications**.

3. You should see the **Contents** section of the **Acer Resource Center**.



Images for reference only.

4. Click the **install** icon for the item you want to install, then follow the onscreen instructions to complete the installation. Repeat this step for each item you want to reinstall.

*If you are reinstalling from a Drivers and Applications Backup on a DVD or USB drive:*

1. Insert the **Drivers and Applications Backup** into the disc drive or connect it to a free USB port.

- If you inserted a DVD wait for **Acer Resource Center** to start.
- If **Acer Resource Center** does not start automatically, press the *Windows key + <E>*, then double-click on the optical drive icon.
- If you are using a USB drive, press the *Windows key + <E>*, then double-click on the drive that contains the backup. Double-click on **ResourceCenter**.

2. You should see the **Contents** section of the **Acer Resource Center**.



Images for reference only.

3. Click the **Install** icon for the item you want to install, then follow the onscreen prompts to complete the installation. Repeat this step for each item you want to reinstall.



## Returning to an earlier system snapshot

Microsoft System Restore periodically takes a 'snapshot' of your system settings and saves them as restore points. In most cases of hard-to-resolve software problems, you can return to one of these restore points to get your system running again.

Windows automatically creates an additional restore point each day, and also each time you install software or device drivers.



### Note

*For more information about using Microsoft System Restore, from Start, type 'Help' and then click Help and Support in the list of apps. Type 'Windows system restore' in the Search Help box, then press Enter.*

### Returning to a restore point

1. From **Start**, type 'Control Panel' and then click **Control Panel** in the list of apps.
2. Click **System and Security > Action Center**, then click **Recovery** at the bottom of the window.
3. Click **Open System Restore**, then **Next**.

4. Click the latest restore point (at a time when your system worked correctly), click **Next**, then **Finish**.
5. A confirmation window appears; click **Yes**. Your system is restored using the restore point you specified. This process may take several minutes, and may restart your computer.

## Returning your system to its factory condition

If your computer experiences problems that are not recoverable by other methods, you may need to reinstall everything to return your system to its factory condition. You can recover from either your hard drive or the recovery backup you have created.

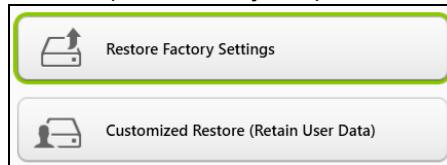
- If you can still run Windows and have not deleted the recovery partition, see *Recovering from Windows* below.
- If you cannot run Windows, your original hard drive has been completely re-formatted or you have installed a replacement hard drive, see **Recovering from a recovery backup on page 30**.

## Recovering from Windows

Start Acer Recovery Management:

- From *Start*, type 'Recovery' and then click **Acer Recovery Management** in the list of apps.

Two options are available, **Restore Factory Settings** (Reset my PC) or **Customized Restore** (Refresh my PC).



**Restore Factory Settings** deletes everything on your hard drive, then reinstalls Windows and all software and drivers that were pre-installed on your system. If you can access important files on your hard drive, back them up now. See **Restore Factory Settings with Acer Recovery Management on page 28**.

**Customized Restore** will attempt to retain your files (user data) but will reinstall all software and drivers. Software installed since you purchased your PC will be removed (except software installed from

the Windows Store). See **Customized Restore with Acer Recovery Management on page 29.**

## *Restore Factory Settings with Acer Recovery Management*

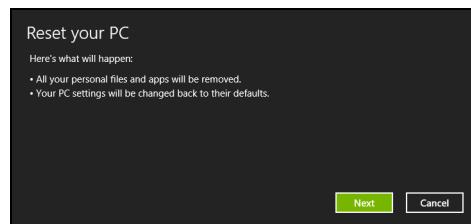
### 1. Click **Restore Factory Settings**.



#### **Important**

'Restore Factory Settings' will erase all files on your hard drive.

### 2. The **Reset your PC** window opens.



Images for reference only.

### 3. Click **Next**, then choose how to erase your files:

- Just remove my files** quickly erases all files before restoring your computer and takes about 30 minutes.
- Fully clean the drive** completely cleans the drive after each file is erased, so no files can be viewed after the recovery. Cleaning the drive takes much longer, up to 5 hours, but is much more secure as old files are completely removed.

### 4. Click **Reset**.

5. The recovery process begins by restarting your computer, then continues by copying files to your hard drive.
6. After the recovery has finished, you can start using your computer by repeating the first-start process.

### *Recovering from the hard drive during startup*

1. Turn on your computer and press **<Alt> + <F10>** during startup. A screen appears asking you to choose the keyboard layout.
2. Several options are now presented. Click **Troubleshoot**.
3. Click either **Refresh your PC** or **Reset your PC**.



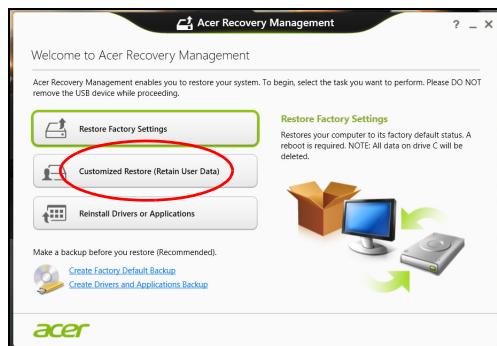
#### **Note**

*"Refresh your PC" enables you to restore your computer to the default factory condition with files intact. "Reset your PC" completely removes all your files and resets your computer to factory settings.*

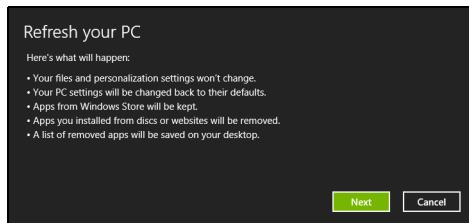
4. Click **Next**. The process will take several minutes.

### *Customized Restore with Acer Recovery Management*

1. Click **Customized Restore (Retain User Data)**.



## 2. The Refresh your PC window opens.



Images for reference only.

### 3. Click **Next**, then **Refresh**.

### 4. The recovery process begins by restarting your computer, then continues by copying files to your hard drive. This process takes about 30 minutes.

## Recovering from a recovery backup

To recover from a recovery backup on a USB drive:

1. Find your recovery backup.
2. If your computer does not have a built-in keyboard, make sure a keyboard is attached to your computer.
3. Plug in the USB drive and turn on your computer.
4. If it is not already enabled, you must enable the **F12 Boot Menu**:
  - a. Press **<F2>** when starting your computer.
  - b. Use the left or right arrow keys to select the **Main** menu.
  - c. Press the down key until **F12 Boot Menu** is selected, press **<F5>** to change this setting to **Enabled**.
  - d. Use the left or right arrow keys to select the **Exit** menu.
  - e. Depending on the type of BIOS your computer uses, select **Save Changes and Exit** or **Exit Saving Changes** and press **Enter**. Select **OK** or **Yes** to confirm.
  - f. Your computer will restart.
5. During startup, press **<F12>** to open the boot menu. The boot menu allows you to select which device to start from, select the USB drive.
  - a. Use your arrow keys to select **USB Device**, then press **Enter**.

- b. Windows starts from the recovery backup instead of the normal startup process.
6. Select your keyboard type.
7. Select **Troubleshoot** and then choose the type of recovery to use:
- a. Click **Advanced** then **System Restore** to start Microsoft System Restore:  
Microsoft System Restore periodically takes a 'snapshot' of your system settings and saves them as restore points. In most cases of hard-to-resolve software problems, you can return to one of these restore points to get your system running again.
  - b. Click **Reset your PC** to start the reset process:  
**Reset your PC** deletes everything on your hard drive, then reinstalls Windows and all software and drivers that were pre-installed on your system. If you can access important files on your hard drive, back them up now. See *Reset your PC from the recovery backup* below.
  - c. Click **Refresh your PC** to start the refresh process:  
**Refresh your PC** will attempt to retain your files (user data) but will reinstall all software and drivers. Software installed since you purchased your PC will be removed (except software installed from the Windows Store). See **Refresh your PC from the recovery backup on page 32**.

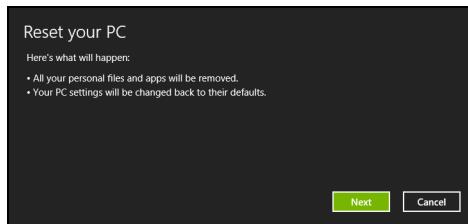
### *Reset your PC from the recovery backup*



#### **Important**

**Reset your PC will erase all files on your hard drive.**

1. The **Reset your PC** window opens.

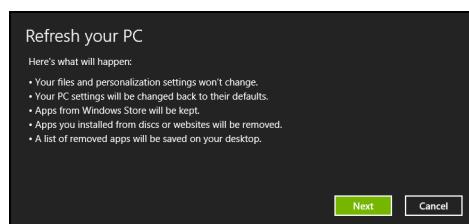


Images for reference only.

2. Click **Next**.
3. Select the operating system to recover (normally only one option is available).
4. Choose to keep any changes to the hard drive:
  - a. If you have deleted the recovery partition or otherwise changed the partitions on the hard drive and want to keep these changes, select **No**.
  - b. To restore your computer to Factory Settings, select **Yes**.
5. Choose how to erase your files:
  - a. **Just remove my files** quickly erases all files before restoring your computer and takes about 30 minutes.
  - b. **Fully clean the drive** completely cleans the drive after each file is erased, so no files can be viewed after the recovery. Cleaning the drive takes much longer, up to 5 hours, but is much more secure as old files are completely removed.
6. Click **Reset**.
7. After the recovery has finished, you can start using your computer by repeating the first-start process.

### *Refresh your PC from the recovery backup*

1. The **Refresh your PC** window opens.



2. Click **Next**.
3. Select the operating system to recover (normally only one option is available).
4. Click **Refresh**.
5. The recovery process begins by restarting your computer, then continues by copying files to your hard drive. This process takes about 30 minutes.

# CHANGING YOUR WINDOWS VERSION



## Note

*Information in this section may not apply to your computer.*

Your computer is configured with two operating systems, *Windows 7* and *Windows 8.1*. When you first start your computer, *Windows 7* will start. Please follow the setup process.



## Important

**Changing the OS will erase all data on your computer. Create a backup before changing.**

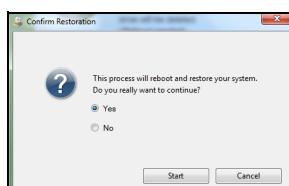
## Changing to Windows 8.1

To change to *Windows 8.1*, open **Acer eRecovery Management** (**Start > All programs > Acer**).

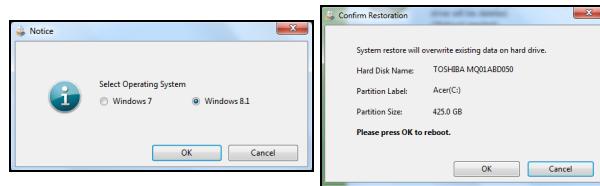
1. Select **Restore**, then **Restore Operating System to Factory Defaults**.



2. Select **Yes**.



### 3. Select **Windows 8.1**, and then click **OK** and follow the instructions.



Windows will restart, replace Windows 7 with Windows 8.1, and then start the Windows 8.1 setup process.



#### Note

*After configuring Windows 8.1, enter the BIOS (press <F2> when starting your computer) enter the Boot menu and change the Boot Mode to UEFI.*

**See Changing BIOS settings on page 35.**

## Changing to Windows 7



#### Note

*To change back to Windows 7, you must change Boot Mode back to Legacy BIOS. Windows 7 will not start if the BIOS Mode is set to UEFI.*

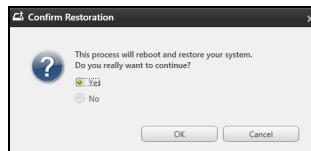
**See Changing BIOS settings on page 35**

Start Windows 8.1; from Start, type 'recovery' to open Acer Recovery Management.

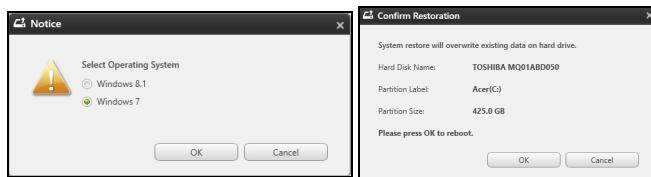
### 1. Select **Restore Factory Settings**.



## 2. Select Yes.



## 3. Select Windows 7, and then click OK and follow the instructions.



Windows will restart, replace Windows 8.1 with Windows 7, and then start the Windows 7 setup process.

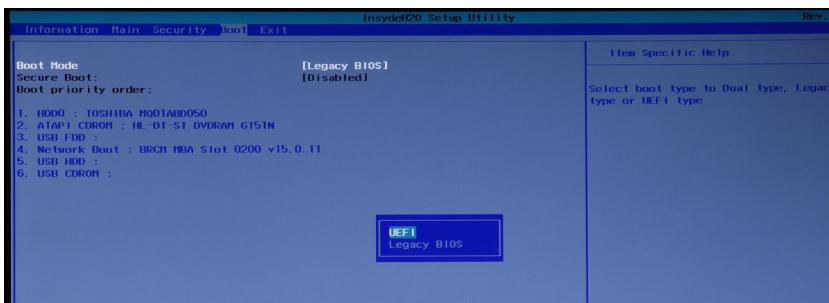
## Changing BIOS settings

To change your BIOS settings, press **<F2>** when you see the Acer logo during boot up.

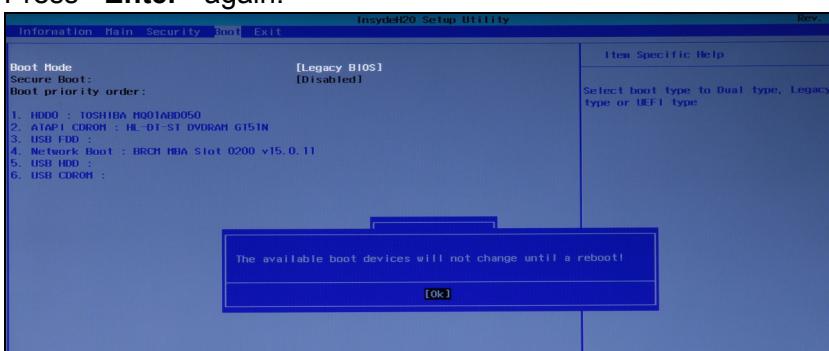
Use the arrow keys to select **Boot > Boot Mode**.



Press **<Enter>**, then use the arrow keys to select **UEFI** or **Legacy BIOS**.



Press **<Enter>** again.



Finally, press **<F10>** to save the settings and reboot.

## Changing between Windows 7 and 8.1 during startup

1. Turn on your computer and press **<Alt> + <F10>** when you see the Acer logo during boot up to launch Acer Recovery Management.
2. Select **Restore Operating System to Factory Defaults**.
3. Select which operating system to restore: **Windows 7** or **Windows 8.1**.
4. Click **OK** and follow the instructions to complete the process and recover your system to its factory-loaded condition.



### Note

*This process may take a few minutes; please plug in your computer's power adapter.*

# CONNECTING TO THE INTERNET



## Note

*Information in this section may not apply to your computer.*

This chapter includes basic information on types of connections, and getting connected to the Internet. For detailed information, please refer to [Network connections on page 81](#).

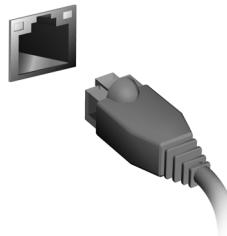
## Connecting with a cable

### Built-in network feature

The built-in network feature makes it easy for you to connect your computer to the Internet using a cable.

But first, an Internet Service Provider (ISP) -- usually a phone or cable company -- will have to go to your home or office to set up Internet service. The ISP will install a small box, called a router, that will allow you to connect to the Internet.

Once your router is set up, all you have to do is plug one end of a network cable into the network port on your computer, and the other end into a port on your router. (Refer to the image below.) Then, you'll be ready to get online.



## Connecting wirelessly

## Connecting to a wireless LAN

A wireless LAN (or WLAN) is a *wireless local area network*, which can link two or more computers without using wires. Once connected to WLAN, you can access the Internet. You can also share files, other devices, and even your Internet connection itself.



### Warning

**Using wireless devices while flying in aircraft may be prohibited. All wireless devices must be switched off before boarding an aircraft and during take-off, as they may be dangerous to the operation of the aircraft, disrupt communications, and even be illegal. You may turn on your computer's wireless devices only when informed that it is safe to do so by the cabin crew.**

Your computer's wireless connection is turned on by default and Windows will detect and display a list of available networks during setup. Select your network and enter the password if required.

Acer notebook computers feature an *Airplane mode* hotkey that turns the network connection on or off. You can use the network management options to turn your wireless network on/off or control what is shared over the network. From the *Start* screen, start typing 'wireless' then select **Connect to a network** or **Change Wi-Fi settings**. Otherwise, open Internet Explorer and follow the instructions.



### Note

*Please refer to your Internet Service Provider (ISP) or router documentation for details on connecting to the Internet.*

## Connecting to a 3G network

If your computer has a SIM slot, you can connect to the Internet using a 3G (cellular phone) network. To do this, you must have a compatible SIM card and a data contract with your cellular provider.



### Note

*Please contact your cellular provider for details on connecting to the Internet via 3G.*

# USING A BLUETOOTH CONNECTION

Bluetooth is a technology enabling you to transfer data wirelessly over short distances between many different types of devices. Bluetooth-enabled devices include computers, cell phones, tablets, wireless headsets, and keyboards.

To use Bluetooth, you must ensure the following:

1. Bluetooth is enabled on both devices.
2. Your devices are "paired" (or connected).

## Enabling and disabling Bluetooth

The Bluetooth adapter must be enabled on both devices. For your computer, this may be an external switch, a software setting, or a separate Bluetooth dongle plugged into the computer's USB port (if no internal Bluetooth adapter is available).



### Note

*Please check your devices owner's manual to determine how to turn on its Bluetooth adapter.*

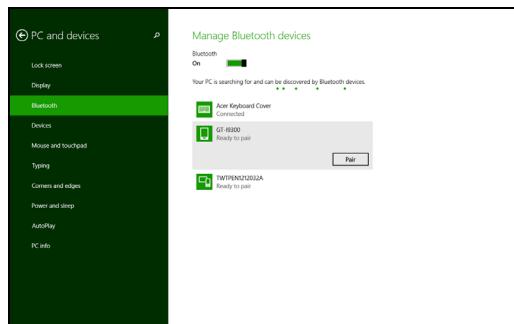
## Enable Bluetooth and add a device

Every new device must first be "paired" with your computer's Bluetooth adapter. This means it must first be authenticated for security purposes. You only need to pair once. After that, simply turning on the Bluetooth adapter of both devices will connect them.

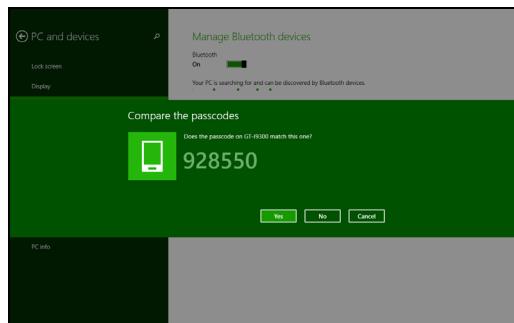
Bluetooth on your computer is disabled by default. To enable your computer's Bluetooth adapter, do the following:

1. Open the Charms and select **Settings > Change PC Settings > PC and devices > Bluetooth**, or press the Windows key + <W> and then type 'Wireless'; in the results, click on **Bluetooth settings**.
2. Click the toggle next to **Bluetooth** to enable/disable it.
3. Your computer will automatically start searching for devices, as well as make itself visible to other devices.

4. Tap the device you wish to add from the list of discovered devices, and tap **Pair**.



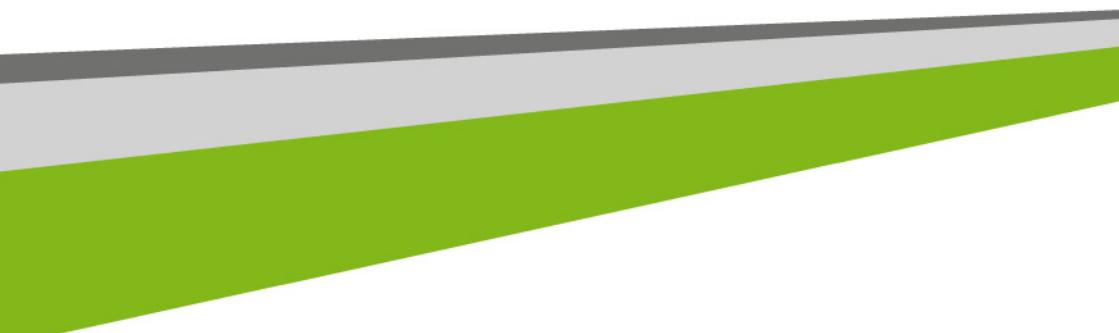
A code displays on your computer, which should match the code displayed on your device. Select **Yes**. Then, accept the pairing from your device.



### Note

Some devices using older versions of the Bluetooth technology require both devices to enter a PIN. In the case of one of the devices not having any inputs (as in a headset), the passcode is hardcoded into the device (usually "0000" or "1234"). Consult your device's user manual for more information.

# Keeping your computer and data safe...



## In this section you will find:

- How to secure your computer
- Setting passwords
- What you need to prepare when you're traveling
- How to get the most out of your battery

# ACER PROSHIELD

## Overview

An all-in-one security solution, Acer ProShield provides an embedded security solution to address the following points of vulnerability:

- Securing the device against unauthorized access
- Protecting local storage
- Securing the network

Acer ProShield includes five modules that will secure your device from unauthorized access and intrusion.



### Note

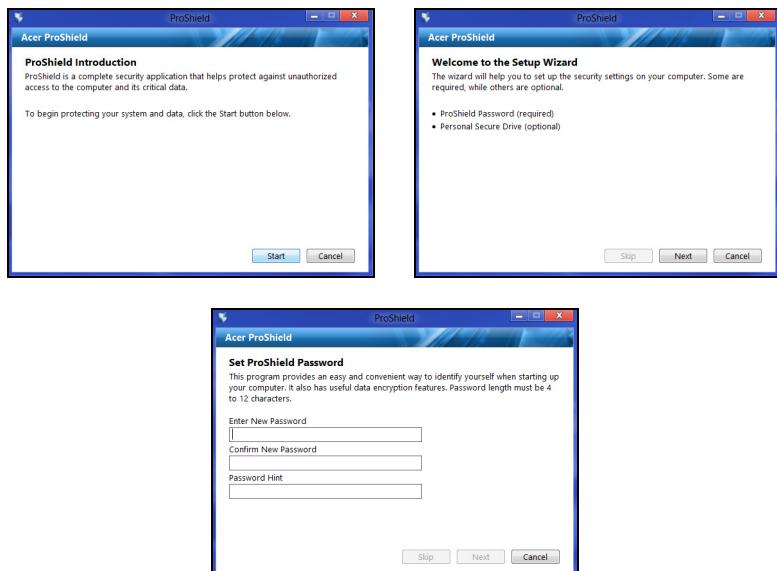
*Your computer may not have all the modules mentioned below. Please refer to your computer's specifications to confirm which modules are supported.*

- Credential Manager - Password, Fingerprint registration (if your PC has a fingerprint scanner), Online accounts configuration
- Pre-Boot Authentication - Boot sequence and device security
- Data Protection - Personal secure drive, file and folder encryption
- Data Removal - File shredder
- Information - About this software

## Setting up Acer ProShield

The first time you run Acer ProShield, you will be led through a setup wizard that allows you to set up the parameters for Acer ProShield.

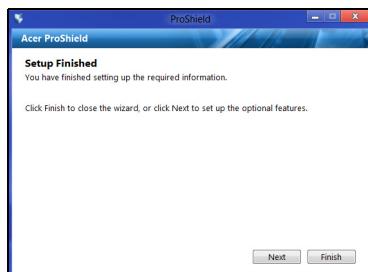
Click **Start** to begin. You will be required to set a password, and can choose to create a Personal Secure Drive.



### Note

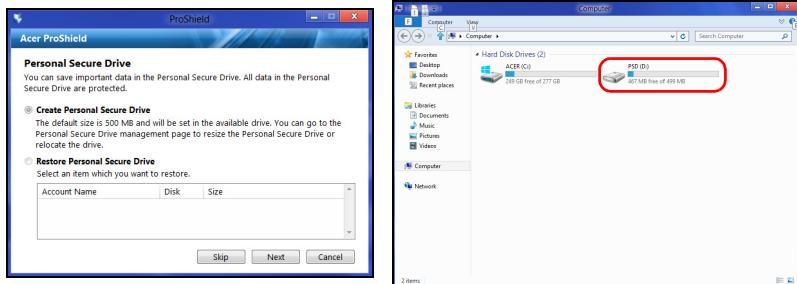
Select a password that you will remember, but is difficult to guess. Do not use words that can be found in a dictionary. It is advisable to use a combination of letters and numbers.

Once you have set a password, you can click **Next** to proceed to setting up a Personal Secure Drive or click **Finish** to exit the wizard.

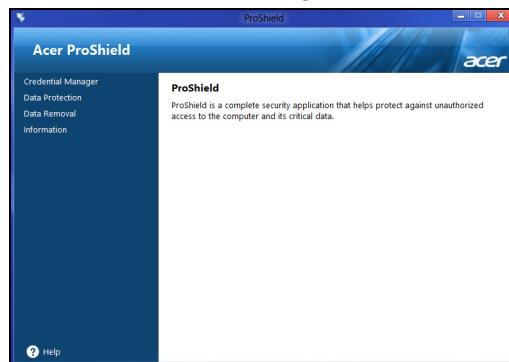


## Personal Secure Drive

The Personal Secure Disk (PSD) is a secure section of your hard disk where you can save files. You can only get access to the PSD via password or fingerprint authentication.



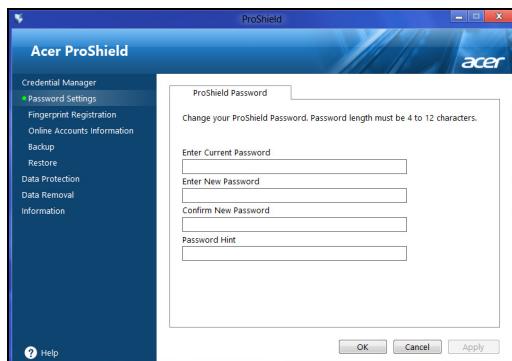
Once setup is finished, you can go to the ProShield Console to manage your computer or make changes to the settings.



Use the menu in the left-hand pane to make changes.

# Credential Manager

Here you can set and manage your credentials, including Pre-boot authentication.



You can change your ProShield and Windows passwords, register fingerprints, manage online account information, and back up or restore credential information.

## Fingerprint Registration\*

\* (only if your PC has a fingerprint scanner)

You can use a fingerprint scanner to secure your PC from unauthorized access. Register two or more fingerprints that can then be used to access your PC during start up, instead of your password.



Click **Registration Tutorial** for more information.

## Data Protection

Here you can select files for encryption or decryption, and manage your Personal Secure Drive.



## Data Removal

Here you can select files to be completely removed from the hard disk. The File Shredder overwrites the data to make recovering the data impossible.



### Warning

Make sure you select only the information you want to shred. Once you have shredded a file or folder, it is impossible to recover the data.

# BIOS UTILITY

---

The BIOS utility is a hardware configuration program built into your computer's BIOS.

Your computer is already properly configured and optimized, and you do not normally need to run this utility. However, if you encounter configuration problems, you may need to run it.

To activate the BIOS utility, press **<F2>** during the POST while the computer logo is being displayed.

## Boot sequence

To set the boot sequence in the BIOS utility, activate the BIOS utility, then select **Boot** from the categories listed at the top of the screen.

## Setting passwords

To set a password on boot, activate the BIOS utility, then select **Security** from the categories listed at the top of the screen. Find **Password on boot:** and use the **<F5>** and **<F6>** keys to enable this feature.

# SECURING YOUR COMPUTER

Your computer is a valuable investment that you need to take care of. Learn how to protect and take care of your computer.

Security features include hardware and software locks — a security notch and passwords.

## Using a computer security lock

The computer comes with a Kensington-compatible security slot for a security lock.

Wrap a computer security lock cable around an immovable object such as a table or handle of a locked drawer. Insert the lock into the notch and turn the key to secure the lock. Some keyless models are also available.

## Using passwords

Passwords protect your computer from unauthorized access. Setting these passwords creates several different levels of protection for your computer and data:

- Supervisor Password prevents unauthorized entry into the BIOS utility. Once set, you must enter this password to gain access to the BIOS utility. [See Setting passwords on page 47](#).
- User Password secures your computer against unauthorized use. Combine the use of this password with password checkpoints on boot-up and resume from Hibernation (if available) for maximum security.
- Password on Boot secures your computer against unauthorized use. Combine the use of this password with password checkpoints on boot-up and resume from Hibernation (if available) for maximum security.



### Important

**Do not forget your Supervisor Password! If you forget your password, please get in touch with your dealer or an authorized service center.**

## Entering passwords

When a password is set, a password prompt appears in the center of the display screen.

- When the Supervisor Password is set, a prompt appears when you enter the BIOS utility.
- Type the Supervisor Password and press <Enter> to access the BIOS utility. If you enter the password incorrectly, a warning message appears. Try again and press <Enter>.
- When the User Password is set and the password on boot parameter is enabled, a prompt appears at boot-up.
- Type the User Password and press <Enter> to use the computer. If you enter the password incorrectly, a warning message appears. Try again and press <Enter>.



### Important

You have three chances to enter a password. If you fail to enter the password correctly after three tries, the system halts. Press and hold the power button for four seconds to shut down the computer. Then turn on the computer again, and try again.

# POWER MANAGEMENT

This computer has a built-in power management unit that monitors system activity. System activity refers to any activity involving one or more of the following devices: keyboard, mouse, hard disk, peripherals connected to the computer, and video memory. If no activity is detected for a period of time, the computer stops some or all of these devices in order to conserve energy.

## Saving power

### Disable Fast startup

Your computer uses Fast startup to start quickly, but also uses a small amount of power to check for signals to start. These checks will slowly drain your computer's battery.

If you prefer to reduce your computer's power requirements and environmental impact, turn off Fast startup:



#### Note

*If Fast startup is off, your computer will take longer to start from Sleep.*

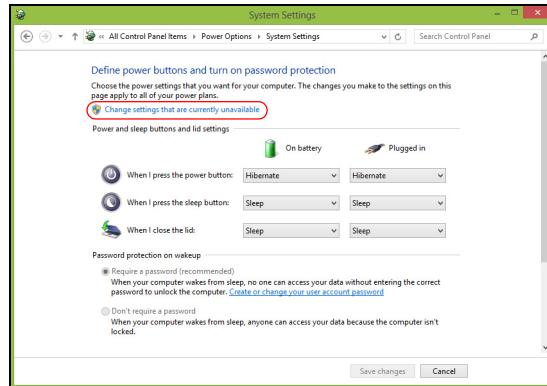
*Your computer will also not start if it receives an instruction to start over a network (Wake on LAN).*

1. Open the desktop.
2. Click **Power Options** in the Notification area.
3. Select **More Power Options**.

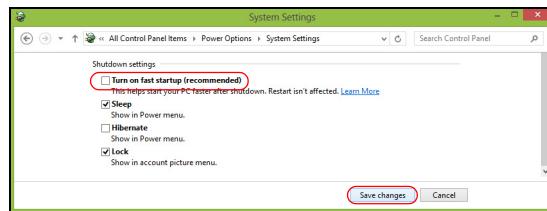


4. Select **Choose what the power buttons do**.

## 5. Select Change settings that are currently unavailable.



## 6. Scroll down and disable Turn on fast startup.



## 7. Select Save changes.

# BATTERY PACK

The computer uses an embedded Lithium battery that gives you long use between charges.

## Battery characteristics

The battery is recharged whenever you connect the computer to the AC adapter. Your computer supports charge-in-use, enabling you to recharge the battery while you continue to operate the computer. However, recharging with the computer turned off significantly reduces charge time.

The battery will come in handy when you travel or during a power failure.

## Charging the battery

Plug the AC adapter into the computer, and connect to a mains power outlet. You can continue to operate your computer on AC power while your battery is charging. However, charging the battery with the computer turned off significantly reduces charge time.



### Note

*You are advised to charge the battery before retiring for the day. Charging the battery overnight before traveling enables you to start the next day with a fully charged battery.*

### Conditioning a new battery pack

Before you use a battery pack for the first time, there is a conditioning process that you should follow:

1. Connect the AC adapter and fully charge the battery.
2. Turn on the computer and complete setting up the operating system.
3. Disconnect the AC adapter.
4. Operate the computer using battery power.
5. Reconnect the AC adapter and fully charge the battery again.

Follow these steps again until the battery has been charged and discharged three times.

Use this conditioning process for all new batteries, or if a battery hasn't been used for a long time.



### Warning

**Do not expose battery packs to temperatures below 0° C (32° F) or above 45° C (113° F). Extreme temperatures may adversely affect the battery pack.**

The battery conditioning process ensures your battery accepts the maximum possible charge. Failure to follow this procedure will prevent you from obtaining the maximum battery charge, and will also shorten the effective lifespan of the battery.

In addition, the useful lifespan of the battery is adversely affected by the following usage patterns:

- Using the computer on constant AC power.
- Not discharging and recharging the battery to its extremes, as described above.
- Frequent use; the more you use the battery, the faster it will reach the end of its effective life. An embedded battery has a life span of more than 1,000 charge/discharge cycles.

## Optimizing battery life

Optimizing battery life helps you get the most out of battery operation, prolonging the charge/recharge cycle and improving recharging efficiency. You are advised to follow the suggestions set out below:

- Use AC power whenever possible, reserving battery for mobile use.
- Remove accessories that are not being used (e.g. a USB disk drive), as they can continue to draw power.
- Store your PC in a cool, dry place. The recommended temperature is 10° C (50° F) to 30° C (86° F). Higher temperatures cause the battery to self-discharge faster.
- Excessive recharging decreases the battery life.
- Look after your AC adapter and battery.

## Checking the battery level

The power meter indicates the current battery level. Rest the cursor over the battery/power icon on the taskbar to see the battery's present charge level.

## Battery-low warning

When using battery power pay attention to the power meter.



### Important

Connect the AC adapter as soon as possible after the battery-low warning appears. Data may be lost if the battery is allowed to become fully depleted and the computer shuts down.

When the battery-low warning appears, the recommended course of action depends on your situation:

Situation	Recommended Action
The AC adapter and a power outlet are available.	<ol style="list-style-type: none"><li>1. Plug the AC adapter into the computer, and then connect to the main power supply.</li><li>2. Save all necessary files.</li><li>3. Resume work.</li></ol> <p><b>Turn off the computer if you want to recharge the battery rapidly.</b></p>
The AC adapter or a power outlet is unavailable.	<ol style="list-style-type: none"><li>1. Save all necessary files.</li><li>2. Close all applications.</li><li>3. Turn off the computer.</li></ol>

# TRAVELING WITH YOUR COMPUTER

---

This section gives you tips and hints to consider when moving around or traveling with your computer.

## Disconnecting from the desktop

Follow these steps to disconnect your computer from external accessories:

1. Save any open files.
2. Remove discs from optical drive.
3. Shut down the computer or put it into Sleep or Hibernate mode.
4. Close the display cover.
5. Disconnect the cord from the AC adapter.
6. Disconnect the keyboard, pointing device, printer, external monitor and other external devices.
7. Disconnect the Kensington lock if you are using one to secure the computer.

## Moving around

When you are just moving within short distances, for example, from your office desk to a meeting room.

## Preparing the computer

Before moving the computer, close and latch the display cover to place it in Sleep mode. You can now safely take the computer anywhere you go within the building. To wake the computer from Sleep mode, open the display and, if necessary, press and release the power button.

If you are taking the computer to a client's office or a different building, you may choose to shut down the computer:

Press the *Windows key + <C>*, click **Settings > Power** then click **Shut Down**

Or:

You can put the computer in Sleep mode by pressing <Fn> + <F4> or by closing the display.

When you are ready to use the computer again, open the display and, if necessary, press and release the power button.



### Note

*The computer may enter Hibernation or Deep Sleep mode after being in Sleep mode for a period of time.*

## What to bring to meetings

If your meeting is relatively short, you probably do not need to bring anything with you other than your computer. If your meeting will be longer, or if your battery is not fully charged, you may want to bring the AC adapter with you to plug in your computer in the meeting room.

If the meeting room does not have an electrical outlet, reduce the drain on the battery by putting the computer in Sleep mode. Press <Fn> + <F4> or close the display cover whenever you are not actively using the computer.

## Taking the computer home

When you are moving from your office to your home or vice versa.

## Preparing the computer

After disconnecting the computer from your desktop, follow these steps to prepare the computer for the trip home:

- Check that you have removed all media and compact discs from the drive(s). Failure to remove the media can damage the drive head.
- Pack the computer in a protective case that can prevent the computer from sliding around and cushion it if it should fall.



### Warning

**Avoid packing items next to the top cover of the computer. Pressure against the top cover can damage the screen.**

## What to take with you

Unless you have some items at home, take the following items with you:

- AC adapter and power cord.
- The printed *Setup Guide*.

## Special considerations

Follow these guidelines to protect your computer while traveling to and from work:

- Minimize the effects of temperature changes by keeping the computer with you.
- If you need to stop for an extended period of time and cannot carry the computer with you, leave the computer in the trunk of the car to avoid exposing the computer to excessive heat.
- Changes in temperature and humidity can cause condensation. Allow the computer to return to room temperature, and inspect the screen for condensation before turning on the computer. If the temperature change is greater than 10° C (18° F), allow the computer to come to room temperature slowly. If possible, leave the computer for 30 minutes in an environment with a temperature between outside and room temperature.

## Setting up a home office

If you frequently work on your computer at home, you may want to purchase a second AC adapter for use at home. With a second AC adapter, you can avoid carrying the extra weight to and from home.

If you use your computer at home for significant periods of time, you might also want to add an external keyboard, monitor or mouse.

## Traveling with the computer



### Important

Check with your airline for any special requirements for travelling with Lithium batteries.

When you are moving within a larger distance, for instance, from your office building to a client's office building or traveling locally.

## Preparing the computer

Prepare the computer as if you were taking it home. Make sure that the battery in the computer is charged. Airport security may require you to turn on your computer when carrying it into the gate area.

## What to take with you

Take the following items with you:

- AC adapter
- Additional printer driver files if you plan to use another printer

## Special considerations

In addition to the guidelines for taking the computer home, follow these guidelines to protect your computer while traveling:

- Always take the computer as carry-on luggage.
- If possible, have the computer inspected by hand. Airport security X-ray machines are safe, but do not put the computer through a metal detector.

## Traveling internationally



### Important

Check with your airline for any special requirements for travelling with Lithium batteries.

When you are moving from country to country.

## Preparing the computer

Prepare the computer as you would normally prepare it for traveling.

## What to bring with you

Bring the following items with you:

- AC adapter.
- Power cords that are appropriate for your destination(s).
- Additional printer driver files if you plan to use another printer.
- Proof of purchase, in case you need to show it to customs officials.
- International Travelers Warranty passport.

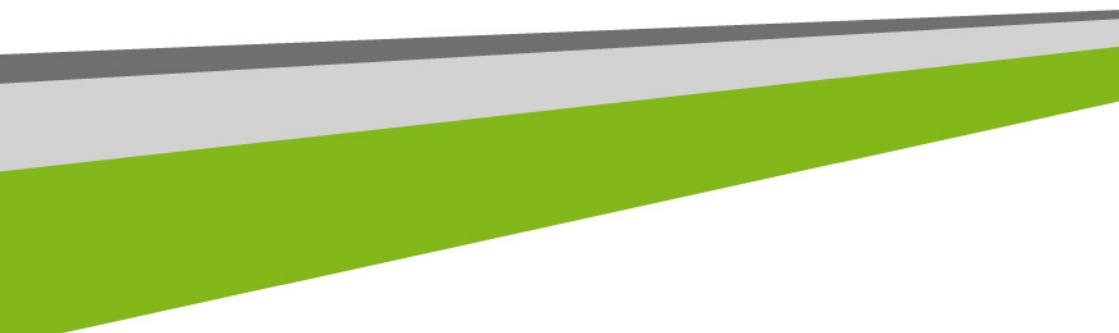
## Special considerations

Follow the same special considerations as when traveling with the computer.

In addition, these tips are useful when traveling internationally:

- When traveling in another country, check that the local AC voltage and the AC adapter power cord specifications are compatible. If not, purchase a power cord that is compatible with the local AC voltage. Do not use converter kits sold for appliances to power the computer.
- If you are using the modem, check if the modem and connector are compatible with the telecommunications system of the country you are traveling in.

# Ports and connectors...



## In this section you will find:

- Information on the ports and connectors fitted to your computer

# MEMORY CARD READER

## Connectivity options

Your computer has a card reader and other ports/jacks that allow you to connect peripheral devices to your computer. For instructions on how to connect different external devices to the computer, read the following section.

### *Memory card reader*

Memory cards are used in a wide selection of digital cameras, PDAs, MP3 players and mobile phones.



### Inserting a memory card

1. Align the card so that the connector points towards the port, with the connectors facing down.
2. Carefully slide the card into the port. If you find you need to use any force to insert the card, try reorientating the card slightly.
3. Push the card until it clicks into place. A few millimetres of the card will extend from beyond the slot.

If the card contains some files, the *Windows Auto Play* window may appear (this depends on the contents of the card) and ask you if you wish to use a program to access the contents of the card. Select an option here if it is appropriate, otherwise select **Cancel**. If the card contains no files, or unknown files, a window will open showing the contents of the card.

### SD, SDHC and SDXC cards

Different types of SD cards cover different capacities, while using the same overall design. SD cards contain up to 4 GB, SDHC cards contain up to 32 GB, and SDXC cards can contain up to 2048 GB

(2 TB). Your computer provides an SDHC or SDXC compatible card reader.



### Note

*SDXC memory cards can only be used in an SDXC-compatible reader; SD and SDHC cards can be used in either type.*

### Removing a card from a memory card reader

1. Click on **Show hidden icons** arrow in the *Notification Area* (next to the clock).
2. Click on the **Safely Remove Hardware** icon.
3. Click on **Eject SD Card** (or the name of the device).
4. Wait until a *Safe to Remove Hardware* message is displayed.
5. Remove the card.



# VIDEO AND AUDIO CONNECTORS

Connect to a monitor with a VGA or DVI port (the type of connection supported depends on your computer's configuration). The appropriate cable is usually included with the monitor.

Follow these steps to connect a monitor to your computer:

1. Check that the computer is powered off and the monitor power switch is turned off.
2. Attach the video cable to the monitor port on the computer. Secure the cable connection with the screws provided.
3. Connect the monitor power cable and plug it into a properly grounded wall outlet.
4. Follow any setup instructions in the monitor's user's guide.
5. Turn on power to the monitor, then the computer.
6. Make sure that the current resolution and refresh rate do not exceed the specifications of the monitor. If necessary change the display settings used by the computer.



## Note

To access the display controls, press the Windows key (Windows logo) + W, type "Display" and then click on **Display**.

## Headphones and microphone

These ports allow you to connect audio devices. Use the headphone port to plug in stereo headphones or powered speakers. Plugging an audio device to the headphone port disables the built-in speakers. Use the microphone port to connect an external microphone for mono recording; plugging in an external microphone disables the built-in microphone.



## Note

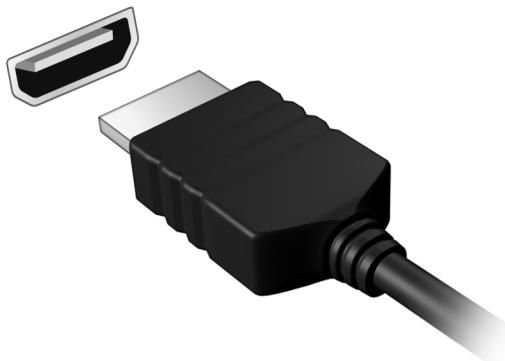
Some computers have a single "combo" port that allows you to use single-pin headsets with a built-in microphone. These headsets are most commonly used with smartphones.

# HDMI

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HDMI (High-Definition Multimedia Interface) is a high-quality, digital audio/video interface. HDMI allows you to connect any compatible digital audio/video source, such as your computer, a set-top box, DVD player, and audio/video receiver to any compatible digital audio and/or video monitor, such as a digital television (DTV) with a single cable.

The single cable keeps everything neat and tidy while ensuring easy connection and the best audio and visual quality.



# UNIVERSAL SERIAL BUS (USB)

The USB port is a high-speed port which allows you to connect USB peripherals, such as a mouse, an external keyboard, additional storage (external hard disks), or any other compatible device.



## Note

Two USB standards are currently available on Acer computers: USB 2.0 (High-speed USB) and USB 3.0 (SuperSpeed USB). USB 2.0 ports on Acer computers have a black tongue in the port, while USB 3.0 ports have a blue tongue. For best performance, USB 3.0 devices should always be plugged into USB 3.0 ports. Consult your device's documentation to see which standard it supports.

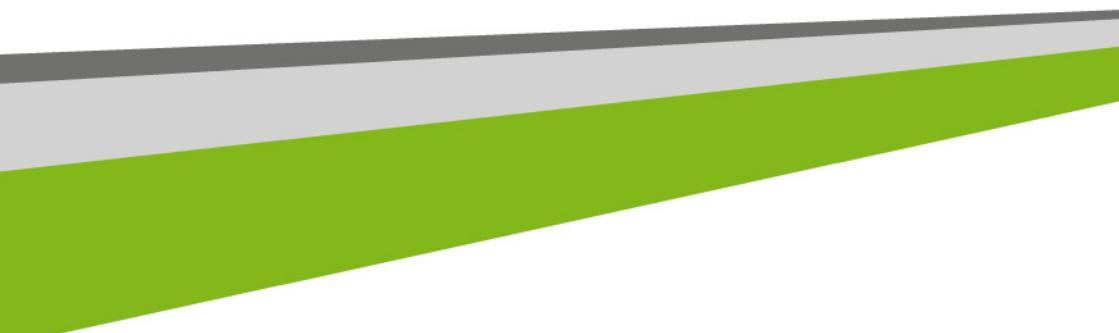
You can also charge devices such as tablets, smartphones, or other devices through a USB port. Some USB 3.0 ports support charging devices when the computer is in Hibernate or turned off. Additionally, you can use a USB hub to connect multiple devices to a single USB port.



## Important

When removing a USB storage device, you should right-click on the USB icon in the Windows task bar and select "Eject <device>" to tell the operating system to stop using the device before removing it. Failure to do this may result in data loss or damage to your peripheral.

# Got a question?



## In this section you will find:

- Frequently asked questions
- Tips for using Windows 8.1
- Troubleshooting information
- How to protect yourself while online
- Where to find Acer service center contact information

# FREQUENTLY ASKED QUESTIONS

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The following is a list of possible situations that may arise during the use of your computer. Easy solutions are provided for each one.

*I turned on the power, but the computer does not start or boot up.*

Look at the power indicator:

- If it is not lit, no power is being supplied to the computer. Check the following:
  - If you are using on the battery, it may be low and unable to power the computer. Connect the AC adapter to recharge the battery pack.
  - Make sure that the AC adapter is properly plugged into the computer and to the power outlet.
- If it is lit, check the following:
  - Is a disc in the optical drive? Remove it and press <Ctrl> + <Alt> + <Del> to restart the system.
  - Do you have a USB storage device (USB disk or smartphone) plugged into your computer? Unplug it and press <Ctrl> + <Alt> + <Del> to restart the system.

*Nothing appears on the screen.*

The computer's power management system automatically blanks the screen to save power. Press any key to turn the display back on.

If pressing a key does not turn the display back on, three things might be the cause:

- The brightness level might be too low. Press <Fn> + <▷> (increase) to adjust the brightness level.
- The display device might be set to an external monitor. Press the display toggle hotkey <Fn> + <F5> to toggle the display back to the computer.
- If the power LED is flashing, the computer may be in Sleep or Hibernate mode. Press and release the power button to resume.

*No audio is heard from the computer.*

Check the following:

- The volume may be muted. Look at the volume control (speaker) icon in the taskbar. If it is crossed-out, click the icon and deselect the **Mute all** option.
- The volume level may be too low. Check the volume from the volume control (speaker) icon in the taskbar. You can also use the volume control buttons to adjust the volume.
- If headphones, earphones or external speakers are connected to the headphone jack on the computer, the internal speakers automatically turn off.

### *The keyboard does not respond.*

Try attaching an external keyboard to a USB port on the computer. If it works, contact your dealer or an authorized service center as the internal keyboard cable may be loose.

### *The printer does not work.*

Check the following:

- Make sure that the printer is connected to a power outlet and that it is turned on.
- Make sure that the printer cable is connected securely to a USB port and the corresponding port on the printer.

### *I want to restore my computer to its original settings.*



#### **Note**

*If your system is the multilingual version, the operating system and language you choose when you first turn on the system will be the only option for future recovery operations.*

This recovery process helps you restore the C: drive with the original software content that is installed when you purchased your computer.



#### **Warning**

**Your C: drive will be reformatted and all data will be erased. It is important to back up all data files before using this option.**

Before performing a restore operation, please check the BIOS settings.

1. Check to see if **Acer disk-to-disk recovery** is enabled or not.

2. Make sure the **D2D Recovery** setting in **Main** is **Enabled**.
3. Exit the BIOS utility and save changes. The system will reboot.



#### Note

*To activate the BIOS utility, press <F2> when you see the Acer logo during boot up.*

For more information, [see Recovering your system on page 23](#).

## Requesting service

### *International Travelers Warranty (ITW)*

Your computer is backed by an International Travelers Warranty (ITW) that gives you security and peace of mind when traveling. An ITW passport came with your computer and contains all you need to know about the ITW program. A list of available, authorized service centers is in this handy booklet. Read this passport thoroughly.

Always have your ITW passport on hand, especially when you travel, to receive the benefits from our support centers. Attach your proof-of-purchase to the ITW passport.

If the country you are traveling in does not have an Acer-authorized ITW service site, you can still get in contact with our offices worldwide. Please visit [www.acer.com](http://www.acer.com).

### *Before you call*

Please have the following information available when you call Acer for online service, and please be at your computer when you call. With your support, we can reduce the amount of time a call takes and help solve your problems efficiently. If there are error messages or beeps reported by your computer, write them down as they appear on the screen (or the number and sequence in the case of beeps).

You are required to provide the following information:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone number: \_\_\_\_\_

Machine and model type: \_\_\_\_\_

Serial number: \_\_\_\_\_

Date of purchase: \_\_\_\_\_

## Tips and hints for using Windows 8.1

We know this is a new operating system that will take some getting used to, so we've created a few pointers to help you get started.

### How do I get to Start?

Press the Windows key; click the Start button on the desktop taskbar; or move your cursor into the upper right-hand corner of the screen and click the **Start** charm.

#### *Where's the Start button?*

The Start button will appear in the desktop taskbar. Clicking it will open *Start* where you can launch apps.

#### *How do I see all of my apps?*

Click the arrow icon that appears at the bottom of *Start* when you move your cursor.

#### *Can I make the "All apps" view the default for Start?*

Yes, you can, just follow these steps:

1. Go to the desktop.
2. Right-click the taskbar and select **Properties** from the menu that opens.
3. From the **Navigation** tab, check *Show the Apps view automatically when I go to Start*.

### What are "Charms?"

Charms allow you to perform useful functions, such as sharing content, turning off your PC or changing settings.

#### *How do I access the charms?*

Move your cursor into the upper right-hand corner of the screen.

## Can I boot directly to the desktop?

Yes, you can, just follow these steps:

1. Go to the desktop.
2. Right-click the taskbar and select **Properties** from the menu that opens.
3. From the **Navigation** tab, check *Go to the desktop instead of Start when I sign in*.

## How do I jump between apps?

Move your cursor to the upper left-hand corner of the screen and click the thumbnail of the app that you want to jump to.

## How do I turn off my computer?

Move your cursor to the upper right-hand corner of the screen, click **Settings > Power** and select the action you'd like to take.

### Can I just turn off notifications?

You can turn off notifications during certain hours so that you can leave your computer running, but not be disturbed by notifications.

1. Move your cursor to the upper right-hand corner of the screen and click **Settings > Change PC settings > Search & apps > Notifications**.
2. Move the *Quiet hours* slider to **On** and select times to start and stop disabling notifications.

## How do I unlock my computer?

Press the space bar and select a user account icon to unlock the computer. If your account has a password set, you will need to enter the password to continue.

Click the *preview* icon to see the characters you've entered to ensure the password is correct.

## Can I personalize the Lock screen?

You can personalize the lock screen with a different image, to run a slideshow of images, or to show you quick status and notifications to suit your personal needs.

To change the background, move your cursor to the upper right-hand corner of the screen and click **Settings > Change PC settings > PC and devices > Lock screen**. From here you can:

- Select a background image for the lock screen
- Turn the *Slide show* on or off
- Select lock screen apps.

## How do I set up the lock screen slideshow?

1. Move your cursor to the upper right-hand corner of the screen and click **Settings > Change PC settings > PC and devices > Lock screen**.
2. Move the slider to **On** and select if the slideshow should be played while the computer is running on battery power.
3. Click **Add a folder** and open the folder you wish to use (your *Pictures* folder will open by default). Click **Use this folder > OK**.
4. You can see the list of folders under *Add a folder*. Select a folder name and click **Remove** to remove the folder from the lock screen slideshow.
5. Change the other settings to suit your needs.

## How do I move tiles?

Right-click a tile to select it, then drag it to the place on *Start* that you want it to appear. Other tiles will be moved to accommodate the tile in its new location.

## Can I arrange tiles in groups?

Yes, you can. Right-click a tile to select it and open the Customize menu. You will see *Name group* appear above unnamed groups. You can give the group(s) a name and arrange the tiles within the groups to suit your needs.

### *Can I make tiles bigger or smaller?*

Right-click anywhere on **Start** to open the **Customize** menu, click the tile(s) you wish to resize and click **Resize**. Select a size from the menu that appears.

### *How do I close an app?*

Move your cursor to the top of the screen. You will see it change to a hand, click and drag the hand downwards past the half-way point of the screen.

### *Can I change the screen resolution?*

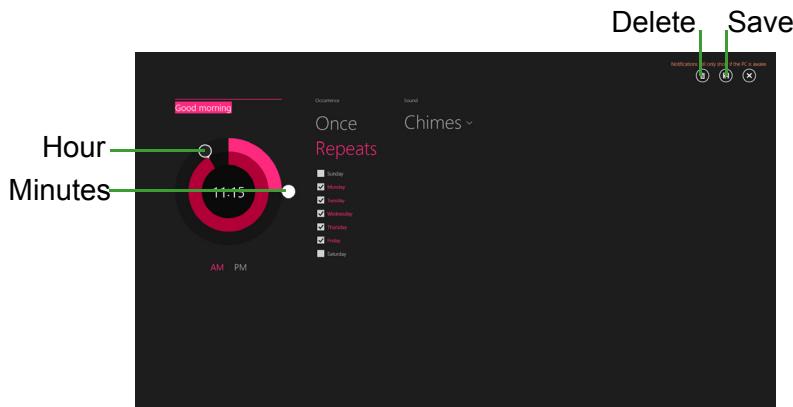
Move your cursor to the upper right-hand corner of the screen and click **Search**, click the text box to open the onscreen keyboard and start typing 'Control Panel' to display the results; click **Control Panel > Adjust screen resolution**.

## **How do I set the alarm?**

Your computer can act as an alarm clock. Start typing 'Alarms' to search for the *Alarms* app.

1. Set the time using the sliders on the left-hand side of the screen.
2. Select AM or PM.
3. Choose which days the alarm should go off.
4. Select the notification.

5. Save the alarm by clicking the Save icon in the upper right-hand corner.



### Note

*The alarm will only sound if your computer is awake at the set time.*

## Where are my apps?

Move your cursor to the upper right-hand corner of the screen and click **Search**, start typing the name of the app you would like to open. Results will be displayed on the right-hand side of the screen.

### How do I make an app appear on Start?

If you're in *All apps* and you want to make an app appear on *Start*, Right-click a tile to select it and open the *Customize* menu. Click **Pin to Start** from the menu that appears at the bottom of the screen.

### How do I remove a tile from Start?

Right-click a tile to select it and open the *Customize* menu. Click the tile(s) you wish to remove and click **Unpin from Start** from the menu that appears at the bottom of the screen.

## *How do I make an app appear on my taskbar?*

If you're in *All apps* and you want to make an app appear on the taskbar, right-click a tile to select it and open the *Customize* menu. Select **Pin to taskbar**.

## *How do I install apps?*

You can download Windows Store apps from *Store*. You will need to have a Microsoft ID to purchase and download apps from *Store*.

## *I can't find apps like Notepad and Paint! Where are they?*

Move your cursor to the upper right-hand corner of the screen and click **Search**, type the name of the app you would like to open using the pop-up keyboard. Alternatively, open *All apps* and scroll to 'Windows Accessories' to see the list of legacy programs.

## *Can I use more than one app at a time?*

1. Click on a tile to open an app from the *Start* screen.
2. Return to the *Start* screen and repeat the process.
3. Swipe right from the left edge of the screen to display the last app that was opened.
4. Swipe right from the left edge of the screen until you see a column divider to display both apps simultaneously. Up to three apps may be displayed via three columns at the same time.

## *Can I show my desktop apps first?*

Yes, you can, just follow these steps:

1. Go to the desktop.
2. Right-click the taskbar and select **Properties** from the menu that opens.
3. From the **Navigation** tab, check *List desktop apps first in the Apps view when it's sorted by category*.

## **What is a Microsoft ID (account)?**

A Microsoft account is an email address and password that you use to sign in to Windows. You can use any email address, but it is best if you choose the one you already use to communicate with friends and

sign in to your favorite websites. When you sign in to your PC with a Microsoft account, you'll connect your PC to the people, files, and devices you care about.

### *Do I need one?*

You do not need a Microsoft ID to use Windows 8.1, but it makes life easier because you can sync data across different machines you sign in to using a Microsoft ID.

### *How do I get one?*

If you've already installed Windows 8.1 and didn't sign in with a Microsoft account or you don't have a Microsoft account and want to get one, move your cursor to the upper right-hand corner of the screen and click **Settings > Change PC settings > Accounts > Connect to a Microsoft account**, and follow the onscreen instructions.

## **How do I add a favorite to Internet Explorer?**

Internet Explorer 10 doesn't have traditional favorites, instead you can pin shortcuts to *Start*. Once you have the page open, swipe upwards from the bottom edge of the screen to open the menu at the bottom of the screen. Click **Pin to Start**.

## **How do I check for Windows updates?**

Move your cursor to the upper right-hand corner of the screen and click **Settings > Change PC settings > Update & recovery > Windows Update**. Click **Check now**.

## **Where can I get more information?**

For more information please visit the following pages:

- Windows 8 and 8.1 tutorials: [www.acer.com/windows8-tutorial](http://www.acer.com/windows8-tutorial)
- Support FAQs: [support.acer.com](http://support.acer.com)

# Troubleshooting

This chapter shows you how to deal with common system problems. Read it before calling a technician if a problem occurs. Solutions to more serious problems require opening up the computer. Do not attempt to open the computer yourself; contact your dealer or authorized service center for assistance.

## Troubleshooting tips

This computer incorporates an advanced design that delivers onscreen error message reports to help you solve problems.

If the system reports an error message or an error symptom occurs, see "Error messages" below. If the problem cannot be resolved, contact your dealer.

## Error messages

If you receive an error message, note the message and take the corrective action. The following table lists the error messages in alphabetical order together with the recommended course of action.

Error messages	Corrective action
CMOS battery bad	Contact your dealer or an authorized service center.
CMOS checksum error	Contact your dealer or an authorized service center.
Disk boot failure	Insert a system (bootable) disk, then press <b>&lt;Enter&gt;</b> to reboot.
Equipment configuration error	Press <b>&lt;F2&gt;</b> (during POST) to enter the BIOS utility, then press <b>Exit</b> in the BIOS utility to reboot.
Hard disk 0 error	Contact your dealer or an authorized service center.
Hard disk 0 extended type error	Contact your dealer or an authorized service center.
I/O parity error	Contact your dealer or an authorized service center.

Error messages	Corrective action
Keyboard error or no keyboard connected	Contact your dealer or an authorized service center.
Keyboard interface error	Contact your dealer or an authorized service center.
Memory size mismatch	Press <b>&lt;F2&gt;</b> (during POST) to enter the BIOS utility, then press <b>Exit</b> in the BIOS utility to reboot.

If you still encounter problems after going through the corrective measures, please contact your dealer or an authorized service center for assistance.

# INTERNET AND ONLINE SECURITY

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## First steps on the net

### Protecting your computer

It is vital to protect your computer from viruses and attacks over the Internet (see [Security on page 83](#)). A comprehensive Internet security program is offered when you first start your computer. You should activate this protection as soon as possible, certainly before you connect to the Internet.

### Choose an Internet Service Provider



Using the Internet has become a natural part of daily computing. Just a few simple steps can connect you to a vast collection of knowledge and communication tools. To accomplish these steps you should first select an *Internet Service Provider* (ISP), which supplies the connection between your computer and the Internet. You should research the ISPs available in your region, not forgetting to talk to friends and family about their experiences or to check reviews and consumer reports. The ISP you select will provide instructions on how to connect to the Internet (you may need additional software or a special 'box' that connects to your phone line).

#### *Connection types*

Depending on your computer model, your location and your communication needs, you have several ways to connect to the Internet.

#### Dial-up

Some computers include a telephone dial-up ('modem') connector. This allows you to connect to the Internet using your telephone line. With a dial-up connection, you cannot use the modem and the telephone simultaneously on a single phone line. This type of connection is recommended only if you have limited use of the

Internet as the connection speed is low and connection time is typically charged per hour.

### DSL (e.g. ADSL)

DSL (Digital Subscriber Line) is an ‘always-on’ connection that runs over the phone line. As DSL and phone do not use the same frequencies, you can use your telephone at the same time you are connected to the Internet (this requires a ‘micro-filter’ on each telephone socket to avoid interference). To be eligible for DSL, you must be located near an DSL-equipped phone exchange (service is sometimes unavailable in rural areas). Connection speeds vary depending on your location, but DSL generally provides very fast and reliable Internet connection. As the connection is always-on, it is generally charged at fixed monthly rates.



#### Note

*A DSL connection requires an appropriate modem. A modem is usually provided by the ISP when you register. Many of these modems include an ‘router’ that provides network and Wi-Fi access.*

### Cable

A cable connection provides fast and always-on Internet service via a cable television line. This service is generally available in large cities. You can use your telephone and watch cable TV at the same time you are connected to the Internet.

### 3G (WWAN or ‘Wireless Wide-Area Network’)

A 3G connection allows you to use cellular networks (such as those used by a mobile phone) to connect to the Internet while away from home. The socket for a SIM card may be built in to your computer, or may require an external device, such as a USB modem or even an appropriately equipped mobile phone.



#### Note

*If your computer includes a SIM card slot, you require a compatible SIM card and a contract with a cellular provider.*

*Before using the 3G features, check with your service provider to see if any additional charges will be incurred, especially roaming charges.*

## Network connections

A LAN (Local Area Network) is a group of computers (for example, within an office building or home) that share a common communications line and resources. When you set up a network, you can share files, peripheral devices (such as a printer) and an Internet connection. You can set up a LAN using wired technologies (such as Ethernet) or wireless technologies (such as Wi-Fi or Bluetooth).

### Wireless networks

A wireless LAN or WLAN is a wireless local area network, which may link two or more computers without using wires. Setting up a wireless network is easy and allows you to share files, peripheral devices and an Internet connection.

#### What are benefits of a wireless network?

##### *Mobility*

Wireless LAN systems allow you and other users of your home network to share access to files and devices connected to the network, for example a printer or scanner.

Also you can share an internet connection with other computers in your home.

##### *Installation speed and simplicity*

Installing a wireless LAN system can be fast and easy and eliminates the need to pull cables through walls and ceilings.

### *Components of a wireless LAN*

To set up your Wireless network at home you need to have the following:

#### Access point (router)

Access points (routers) are two-way transceivers that broadcast data into the surrounding environment. Access points act as a mediator between wired and wireless network. Most routers have a built-in DSL modem that will allow you access to a high speed DSL internet connection. The ISP (Internet Service Provider) you have chosen normally supplies a modem/router with the subscription to their

services. Read carefully the documentation supplied with your Access point/router for detailed setup instructions.

### Network cable (RJ45)

A network cable (also called RJ45 cable) is used to connect the host computer to the access point (see illustration below); this type of cable may also be used to connect peripheral devices to the access point.

### Wireless adapter

An internal wireless adapter is normally already installed in your computer. A button or controls in Windows allow you to activate or deactivate the adapter.

### Diagram of a working network

1. Access point/router
2. Desktop computer
3. Modem
4. Printer
5. Portable computer
6. PDA/Smartphone
7. Network cables (RJ45)

### Turning on/off a wireless network connection

Most computers feature a 'Wi-Fi' button that turns the network connection on or off. If your computer has wireless access, but does not feature a *Communication* button, you may turn your wireless network on or off, or control what is shared over the network with the network management options. Press the Windows key (⊞) + W, type "HomeGroup" and then click on **HomeGroup**.



#### **Warning**

**Using wireless devices while flying in aircraft is prohibited. Switch off all devices before boarding an aircraft; they may be dangerous to the operation of the aircraft, disrupt communications, and even be illegal.**

## Surf the Net!

To surf the Internet, you need a program called an Internet browser. *Internet Explorer* provides an easy and secure web browsing experience. As soon as you have your Internet access installed and you are connected, from Start, click the Internet Explorer tile or the icon located on the desktop and take your Internet experience to a new level!



### Acer website

To get you started why not visit our website, [www.acer.com](http://www.acer.com). Acer is dedicated to provide you with on-going personalised support. Check out our *Support* section to get help tailored to your needs. **www.acer.com** is your portal to a world of online activities and services: visit us regularly for the latest information and downloads!

## Security

You are probably eager to explore everything the Internet has to offer. In order for you to be safe online, Acer has pre-installed McAfee Internet Security Suite on your computer.

McAfee Internet Security Suite runs quietly in the background to block today's complex threats and protect your identity when you shop, bank, or browse online.

McAfee Internet Security Suite blocks online identity theft, detects and eliminates spyware, removes viruses and Internet worms, protects against hackers.

### Definitions

#### What is a virus?

Malicious software, typically called 'viruses', are programs designed to infect and damage computers. Most viruses are transmitted over the Internet, emails or malicious Web sites. A typical virus will replicate and pass itself undetected to multiple computers. Other forms of nuisance, such as Trojan horses, worms or spam can infect your

computer in various ways, using up resources or clogging up a network.



### Note

*Acer guarantees that your computer was 100% virus free at the time of purchase and does not cover damages due to viruses.*

## What is spyware?

Spyware refers to generally unwanted programs that are downloaded onto your computer while connected to the Internet, often without you knowing it. Once it has infected your computer, it can snoop on your browsing activity, collect personal information, cause pop-up ads to appear, or even change the configuration of your computer. Spyware consumes resources on your computer; it can slow down your Internet connection or entire computer system, and even cause crashes.

Spyware is sometimes used by unscrupulous companies to monitor and track the sites you visit on the Internet so as to determine your web-surfing habits and display targeted pop-up ads on your screen. However, some kinds of spyware go beyond simple tracking and actually monitor keystrokes and capture passwords, posing a serious security risk.

## What is malware?

Malicious software, also known as *malware*, is software designed to deliberately harm your computer. For example, viruses, worms, and Trojan horses are malicious software. To help protect your computer against malware, make sure it is using up-to-date antivirus and anti-malware software.

## What is a personal firewall?

A personal firewall is a software program designed to prevent unauthorized access to or from a private network. It acts as a shield to protect your Internet connection from unwanted connections, some of which may attempt to take control of your computer to install or redistribute viruses or malicious programs. Each connection to your computer is monitored - programs that attempt to receive information without your permission are detected and the firewall will display an alert. You can then decide if you will allow the connection, if the connection is to a program you are currently using then normally you

would allow it (i.e. a game connecting to a multi-player server or an encyclopaedia making a content update).

### *How to protect your computer*

Cybercrime prevention can be straight-forward - when armed with a little technical advice and common sense, many attacks can be avoided. In general, online criminals are trying to make their money as quickly and easily as possible. The more difficult you make their job, the more likely they are to leave you alone and move on to an easier target. The tips below provide basic information on how you can prevent online fraud.

#### *Keep your computer current with the latest patches and updates*

One of the best ways to keep attackers away from your computer is to apply patches and other software fixes when they become available. By regularly updating your computer, you block attackers from being able to take advantage of software flaws (vulnerabilities) that they could otherwise use to break into your system.

While keeping your computer up-to-date will not protect you from all attacks, it makes it much more difficult for hackers to gain access to your system, blocks many basic and automated attacks completely, and might be enough to discourage less-determined attackers, so they will give up and look for a more vulnerable computer elsewhere.

More recent versions of Microsoft Windows and other popular software can be configured to download and apply updates automatically so that you do not have to remember to check for the latest software. Taking advantage of auto-update features in your software is a great start toward keeping yourself safe online.

#### *Protect your computer with security software*

Several types of security software are necessary for basic online security. Security software essentials include firewall and antivirus programs. A firewall is usually your computer's first line of defense-it controls who and what can communicate with your computer online. You could think of a firewall as a sort of "policeman" that watches all the data attempting to flow in and out of your computer on the Internet, allowing communications that it knows are safe and blocking "bad" traffic such as attacks from ever reaching your computer.

The next line of defense many times is your antivirus software, which monitors all online activities such as email messages and Web browsing and protects an individual from viruses, worms, Trojan horse and other types of malicious programs. Your antivirus and antispyware software should be configured to update itself, and it should do so every time you connect to the Internet.

Integrated security suites such as McAfee Internet Security Suite, which combine firewall, antivirus, antispyware with other features such as antispam and parental controls, have become popular as they offer all the security software needed for online protection in a single package. Many people find using a comprehensive security suite an attractive alternative to installing, configuring and updating several different types of security software.

A complete version of McAfee Internet Security Suite is pre-installed on your Acer system. It includes a free trial subscription to protection updates. Make sure you Activate it!

### Choose strong passwords and keep them safe

Passwords are a fact of life on the Internet today; we use them for everything from ordering flowers and online banking to logging into our favorite airline Web site to see how many miles we have accumulated. The following tips can help make your online experiences secure:

- Selecting a password that cannot be easily guessed is the first step toward keeping passwords secure and out of the wrong hands. Strong passwords have eight characters or more and use a combination of letters, numbers and symbols (e.g., # \$ % ! ?). Avoid using any of the following as your password: your login name, anything based on your personal information such as your last name, and words that can be found in the dictionary, especially "password." Try to select especially strong, unique passwords for protecting activities like online banking.
- Keep your passwords in a safe place and try not to use the same password for every service you use online.
- Change passwords on a regular basis, at least every 90 days. This can limit the damage caused by someone who has already gained access to your account. If you notice something suspicious with one

of your online accounts, one of the first steps you can take is to change your password.

### Protect your personal information

Exercise caution when sharing personal information such as your name, home address, phone number, and email address online. To take advantage of many online services, you will inevitably have to provide personal information in order to handle billing and shipping of purchased goods. Since not divulging any personal information is rarely possible, the following list contains some advice for how to share personal information safely online:

- **Keep an eye out for phony email messages.** Things that indicate a message may be fraudulent are misspellings, poor grammar, odd phrasing, Web site addresses with strange extensions, Web site addresses that are entirely numbers where there are normally words, and anything else out of the ordinary. Additionally, phishing messages will often tell you that you have to act quickly to keep your account open, update your security, or urge you to provide information immediately or else something bad will happen. Don't take the bait.
- **Don't respond to email messages that ask for personal information.** Legitimate companies will not use email messages to ask for your personal information. When in doubt, contact the company by phone or by typing in the company Web address into your Web browser. Don't click on the links in these messages as they make take you to fraudulent, malicious Web sites.
- **Steer clear of fraudulent Web sites used to steal personal information.** When visiting a Web site, type the address (URL) directly into the Web browser rather than following a link within an email or instant message. Fraudsters often forge these links to make them look convincing.

A shopping, banking or any other Web site where sensitive information should have an "S" after the letters "http" (i.e. <https://www.yourbank.com> not <http://www.yourbank.com>). The "s" stands for secure and should appear when you are in an area requesting you to login or provide other sensitive data. Another sign that you have a secure connection is the small lock icon in the bottom of your web browser (usually the right-hand corner).

- **Pay attention to privacy policies on Web sites and in software.** It is important to understand how an organization might collect and use your personal information before you share it with them.
- **Guard your email address.** Spammers and "phishers" sometimes send millions of messages to email addresses that may or may not exist in hopes of finding a potential victim. Responding to these messages or even downloading images ensures you will be added to their lists for more of the same messages in the future. Also be careful when posting your email address online in newsgroups, blogs or online communities.

### Online offers that look too good to be true usually are

The old saying "there's no such thing as a free lunch" still rings true today. Supposedly "free" software such as screen savers or smileys, secret investment tricks sure to make you untold fortunes, and contests that you've surprisingly won without entering are the enticing hooks used by companies to grab your attention.

While you may not directly pay for the software or service with money, the free software or service you asked for may have been bundled with advertising software ("adware") that tracks your behavior and displays unwanted advertisements. You may have to divulge personal information or purchase something else in order to claim your supposed content winnings. If an offer looks so good it's hard to believe, ask for someone else's opinion, read the fine print, or even better, simply ignore it.

### Review bank and credit card statements regularly

The impact of identity theft and online crimes can be greatly reduced if you can catch it shortly after your data is stolen or when the first use of your information is attempted. One of the easiest ways to get the tip-off that something has gone wrong is by reviewing the monthly statements provided by your bank and credit card companies for anything out of the ordinary.

Additionally, many banks and services use fraud prevention systems that call out unusual purchasing behavior (i.e. if you live in Texas and all of the sudden start buying refrigerators in Budapest). In order to confirm these out of the ordinary purchases, they might call you and ask you to confirm them. Don't take these calls lightly; this is your hint

that something bad may have happened and you should take necessary action.

### *Protect your computer with Windows security tools*

Windows provides a variety of protection applications.

#### Windows Updates

If you have an active Internet connection, Windows can check for important updates for your computer and install them automatically. These updates include security patches and program updates that can improve your computing experience and help protect your computer against new viruses and attacks.

#### *How do I know when my computer is at risk?*

If the *Action Center* reports an alert, or if your computer behaves erratically, crashes unexpectedly or if some of your programs do not work correctly, your computer may be infected by malicious software. However, do not blame every computer problem on a virus! If you suspect your computer is infected, the first thing to do is update, if you have not already done so, and run your antivirus and anti-spyware software.