Aspire 5
Covers: A515-53 / A515-53G / A515-53K / A515-53KG
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> manual.

Register your Acer product

1. Ensure you are connected to the Internet.

2. Open the Acer Product Registration app.

3. Install any required updates.

4. Sign up for an Acer ID or sign in if you already have an Acer ID,
   will automatically register your product.

After we receive your product registration, you will be se
confirmation email with important data.

Model number: _____

Serial number:

TABLEOFCONTENTS

Playing Blu-Ray or DVD movies

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

FIRSTTHINGSFIRST

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

Your guides

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

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

The Quick Guide introduces you to the basic features and functi
of your new computer. For more on how your computer can help y
to be more productive, please refer to the User's Manual. This guid
contains detailed information on such subjects as system utilities, c
recovery, expansion options and troubleshooting.

Once you have connected to the internet, you can download up
for your computer from:

http://go.acer.com/?id=17883

1. The link will open the Acer Support webpage.

2. Scroll down to Drivers and Manuals and search for your mode
   pasting in or manually entering the serial number, SNI
   product model.

3. From this page you can also download and install the Ac
   identification utility that will automatically detect your compu
   serial number and SNID and allow you to copy it to the clipboa

4. Once you have found your product model, any update
   documents will be listed.

Basic care and tips for using your compute

Turning your computer off

- Right-click the Windows Start button > Shut down or sign ou
  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 to Sleep by doing ar
of the following:

- Press the power button.

- Press the sleep hotkey.

- Press the Windows key or select the Windows Start button, se
  Power > Sleep.

- Right-click the Windows Start button > Shut down or sign ou
  Sleep.

Note
If you cannot power off the computer normally, press and hold the pow
button for up to ten seconds to shut down the computer. If you turn off the
computer and want to turn it on again, wait at least two seconds befor
powering up.

Taking care of your computer

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

- Only use the adapter provided with your device, or an Acc
  approved adapter to power your device.

- Do not expose the computer to direct sunlight. Do not place it nea
  sources of heat, such as a radiator.

- Do not expose the computer to temperatures below 0º C (32º F) o
  above 50º C (122º 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.

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.
  Route the power cord and any cables away from where people w

• When unplugging the power cord, do not pull on the cord itself bu
  pull on the plug.

• The total ampere ratings of the equipment plugged in should n
  exceed the ampere rating of the cord if you are using an extensi
  cord. Also, the total current rating of all equipment plugged int
  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 your computer is dropped or visibly damaged, or does not w
normally, please contact your nearest authorized Acer service c

Y O U R   A C E R N O T E B O O K T O U R

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

Screen view

1

2

3

#	Icon	Item	Description
1		Webcam	Web camera for video communication. *A light next to the webcam ind that the webcam is active.*
2		Microphone	Internal digital microphone fo recording.
3		Screen	Displays computer output.

Keyboard view

1

2

3

4

#	Icon	Item	Description
1		Power indicator	Indicates the computer's power status.
		Battery indicator	Indicates the computer's battery status. *Charging: The light shows amber when the battery is charging. Fully charged: The light shows when in AC mode.*
2		Keyboard	For entering data into your computer. *See "Using the keyboard" on page 14.*
3		Touchpad	Touch-sensitive pointing device. *The touchpad and selection form a single surface. Press down firmly on the touchpad surface to perform a left click.*

Left view

1   2   3 4

#	Icon	Item	Description
1		Kensington lock slot	Connects to a Kensington-co security lock.
2		Optical drive	Internal optical drive; accepts DVDs.
3		Optical drive eject button	Ejects the optical disk from the
4		Emergency eject hole	Ejects the optical drive tray wh computer is turned off. *Carefully insert a straightene clip to eject the optical drive tr*

Right view

1   2   3   4

#	Icon	Item	Description
1		SD card reader	Accepts one Secure Digital (S SDHC or SDXC) card. *Only one card can operate at*
		Headset/	Connects to audio devices (e.

#	Icon	Item	Description
4		USB Type-C port	Connects to USB devices that the USB Type-C connector. Su USB 3.1 Type-C, Gen 1 with tr speeds up to 5 Gb/s.

USB 3.0 information

- 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).

USB Type-C information

- USB 3.1 Gen 1 with transfer speeds up to 5 Gbps.

Rear View

1 2 3

#	Icon	Item	Description
1		DC-in jack	Connects to an AC adapter.
2		HDMI port	Supports high-definition digit connections.
3		Ethernet (RJ-45) port	Connects to an Ethernet 10/10 1000-based network.

Base view

1

2

3

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

USINGTHEKEYBOARD

The keyboard has full-sized keys, a numeric keypad, separate c
lock, Windows, special keys and hotkeys.

Lock keys

The keyboard has lock keys which you can use to turn keybo
functions on and off.

Lock key	Description
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase.
Num Lock (Numeric Lock)	When Num Lock is on, the keypad is in numeric mode. The keys function as a calculator (comple with the arithmetic operators +, -, *, and /). Use t mode when you need to do a lot of numeric data entry.
Scr Lk (Scroll Lock)	When Scroll Lock is on, the screen moves one l up or down when you press the up or down arro keys respectively. Scroll Lock does not work wit some applications.

Special keys

Your computer's keyboard includes keys that activate sp
functions. The function of each key is clearly marked with an icon.

Icon	Function	Description
	Sleep	Puts the computer in Sleep mode.
	Airplane mode	Turns on / off the computer's netwo devices.
	Brightness down	Decreases the screen brightness.

Icon	Function	Description
	Display toggle	Switches display output between display screen, external monitor (i connected) and both.
	Display off	Turns the display screen backlight save power. Press any key to return
	Touchpad toggle	Turns the built-in touchpad on and off.
	Keyboard backlight toggle	Turns the keyboard backlight on an *Function varies depending on configuration.*
	Speaker toggle	Turns the speakers on and off.
	Volume down	Decreases the sound volume.
	Volume up	Increases the sound volume.
Scr LK	Scroll Lock	Turns the Scroll Lock on or off.

Hotkeys

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

Hotkey	Icon	Function	Description
Fn + F1-F12		Function keys	Activate the F1 to F12 ke
Fn +		Next	Jumps to the next med
Fn +		Previous	Returns to the previous file.
Fn +		Play/Pause	Plays or pauses a sele media file.

Note

To swap the hotkey and special function of the F1 to F12 keys, change the
function key setting in the BIOS (to open the BIOS press F2 when starting
your computer, then select the Main menu and change Function ke
behavior to Function keys).
(Specifications vary depending on model.)

Windows keys

The keyboard has two keys that perform Windows-specific funct

Key	Description
Windows key	Pressed alone it returns to the Start or to return to the last open app.
Application key	This key has the same effect as click the right mouse button.

USING THE PRECISION TOUCHPA

The touchpad controls the arrow   (or 'cursor') on the screen
slide your finger across the touchpad, the cursor will follow
movement. The Precision Touchpad (PTP) is designed to provid
more uniform, smooth, and accurate touchpad experience.
applications support precision touchpad gestures that use on
more fingers, however, some gestures may not be supported by
specific application or program you are using.

Touchpad gestures

Single-finger slide
Slide a finger across the touchpad to move the cursor.

Single-finger press or tap
Press the touchpad down, or lightly tap the touchpad v
your finger, to perform a 'click', which will select or sta
item. Quickly repeat the tap to perform a double tap or
'double click'.

Two-finger press

Lightly tap the touchpad with two fingers to perform a
'right click'. In the Start screen, this will toggle the app
commands. In most apps this will open a context men
related to the selected item.

Two-finger slide
Swiftly scroll through web pages, documents and pl
by placing two fingers on the touchpad and moving bo
any direction.

Two-finger pinch

Three-finger press

Lightly tap the touchpad with three fingers to open Co
(if your computer supports Cortana) or open the Searc
Windows (if your computer does not support Cortana)

Three-finger swipe

Swipe across the touchpad with three fingers.

• Swipe up to open Task View. Move the cursor ove
  window and tap the touchpad to select that windo
  swipe downwards to exit Task View.

• Swipe down to minimize all open windows and s
  Desktop; swipe upwards to restore the mini
  windows.

• Swipe left or right to switch between open windows.

Four-finger press

Lightly tap the touchpad with four fingers to open the
Action Center.

Four-finger swipe

Swipe across the touchpad with four fingers.

• Swipe up to open Task View. Move the cursor ove
  window and tap the touchpad to select that windo
  swipe downwards to exit Task View.

• Swipe down to minimize all open windows and s
  Desktop; swipe upwards to restore the mini
  windows.

The precision touchpad includes added technology features tha
recognize and prevent unintentional gestures such as accidenta
gestures, and pointer movement.

Note

The touchpad is sensitive to finger movement; the lighter the touch, the be

Changing touchpad settings

To change the touchpad settings to suit your personal requireme
please do the following.

1. In the icon tray in the lower right-hand corner of the screen, sele
the Notifications icon to open the Notifications pane.

2. Select All settings.

3. Select Devices > Touchpad

4. Now you can adjust the settings to suit your personal needs.
can switch off the touchpad if you prefer to use a mouse. Or you ca
adjust the touchpad sensitivity to suit your needs. Scroll down to
more settings.

RECOVERY

If you are having trouble with your computer, and the frequently as do not help, recover your computer.

This section describes the recovery tools available on your com Acer provides Acer Care Center, which allows you to reset your refresh your PC, or create a factory default backup. If you car access Acer Care Center, click Settings in the Start menu, se Update & Security and then click Recovery.

Note
Acer Care Center vary depending on model or Operating System.

Important
We recommend that you create a Factory Default Backup as soon possible. In certain situations a full recovery will require a USI recovery backup.

Creating a factory default backup

Recovery Management allows you to quickly and easily back up operating system, installed apps and data.

Note
Since the recovery backup requires at least 8 GB of storage after formatti it is recommended to use a USB drive with a capacity of 16 GB or larger.

1. From Start, select Care Center then Recovery Management.
2. Select the Backup tab and click Get Started for Create Fac
   Default Backup to open the Recovery Drive window.

3. Make sure Back up system files to the recovery drive is selec
   and click Next.

4. Plug in the USB drive and wait for the PC to detect the USB driv
then click Next.

5. Everything on the drive will be deleted. Click Create to continue.

6. You will be shown the backup progress on the screen.

7. Follow the process until it completes.

8. Unplug the USB drive and label it clearly.

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

Backing up your wireless and LAN drivers

Back up your wireless and LAN drivers. You can use these backup
install the wireless and LAN drivers if you install another oper
system.

1. From Start, select Care Center then Recovery Management.

2. Select the Backup tab and click Get started for Backup wirele
and LAN drivers. Choose a folder to save your drivers and se
OK.

Restoring your computer

Reset this PC and keep my files

1. From Start, select Care Center then Recovery Management.

2. Select the Restore tab and click Get started to Choose an option

3. Select Keep my files to refresh your PC and reinstall your opera
   system without removing your personal files. Click Next to contin

Important
If you have apps installed on your PC, they will be removed.

4. Resetting the PC will reinstall Windows, change settings back
their factory defaults and remove all preinstalled apps and progr
without removing your personal files. Click Reset to continue.

5. You will be shown the reset progress on the screen. The screen
turn off during the reset process.

6. The screen will turn back on when it is installing Windows. Your
will restart several times during the reset process.

7. Follow the process until it completes.

8. When your PC has completed the reset process, Windows will h
been reset back to its factory default settings without removing y
personal files.

Reset this PC and remove everything

1. From Start, select Care Center then Recovery Management.

2. Select the Restore tab and click Get Started to Choose an optio

3. Select Remove everything to reset your PC back to its fact
   default. This process will reinstall your operating system
   remove all of your personal files, apps, and settings.

4. Select Just remove my files if you are keeping your computer. Th
   will be quicker, but less secure. Files may still be recovered with
   file recovery program.
   Select Remove files and clean the drive if you are not keep
   your computer. This process will take longer, but will be mo
   secure.

Warning
Selecting "Remove files and clean the drive" will remove all of yo
personal files and accounts, along with pre-existing drivers that
affect your Windows installation.

5. Click Reset to continue.

6. You will be shown the reset progress on the screen. The screen
turn off during the reset process.

7. The screen will turn back on when it is installing Windows. Your
will restart several times during the reset process.

8. Follow the process until it completes.

9. When your PC has completed the reset process, Windows will u
factory default settings.

USINGA BLUETOOTHCONNECTION

Bluetooth is a technology enabling you to transfer data wirelessly o...
short distances between many different types of devices. Blueto...
enabled devices include computers, cell phones, tablets, wire...
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...
computer, this may be an external switch, a software setting,...
separate Bluetooth dongle plugged into the computer's USB port (i...
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...
Bluetooth adapter. This means it must first be authenticate...
security purposes. You only need to pair once. After that, sim...
turning on the Bluetooth adapter of both devices will connect them.

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

1. Press the Windows key or select the Windows Start button...
   Settings > Devices > Bluetooth & other devices, and cli...
   toggle under Bluetooth to enable/disable it.

2. Click on Add Bluetooth or other device then select the device tha...

4. Select the device you wish to pair from the list of discovere
devices.

5. After pairing, if there is a code displaying on the screen, enter th
code on the device to proceed the connection.

Note

Some devices using older versions of the Bluetooth technology require bo
devices to enter a PIN. In the case of one of the devices not having any input
(as in a headset), the passcode is hardcoded into the device (usually "000
or "1234"). Consult your device's user manual for more information.

You can also enter the Bluetooth settings by selecting
Notifications icon in the lower right-hand corner of the screen to op

CONNECTING TO THE INTERNET

This chapter includes general information on types of connec and getting connected to the internet. For detailed information, refer to

Your computer's built-in network features make it easy for you connect your computer to the internet.

First though, in order to connect to the internet from home, you'll ne to sign up for internet services from an ISP (Internet Service Provic -- usually a phone or cable company -- that will have to go to yo home or office to set up internet service. The ISP will install a sn box, a router or modem, that will allow you to connect to the interne

Connecting to a wireless network

Connecting to a wireless LAN

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

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

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

Acer notebook computers feature an Airplane mode hotkey that

To connect to a wireless network, please follow the steps below.

1. Ensure you have a wireless router/access point and current inte
   connection through the ISP of your choice. Make a note of
   wireless network's name and password (if necessary). If you a
   trying to connect to a public network (such as at a coffeesh
   make sure you have the wireless network's name.

Note

Please refer to your ISP or router documentation for details on connecting
the internet.

2. Click Network icon in the notification area.

Note

If Wi-Fi is turned off, please click Wi-Fi tile to turn it on.

3. You will see a list of available wireless networks. Select the one
   wish to use.

4. Once you select a wireless network, select Connect.

5. If required, enter the network's password.

Connecting with a cable

Built-in network feature

If your computer has a network port, plug one end of a network cab
into the network port on your computer, and the other end into a po
on your router (refer to the image below.) Then, you'll be ready to g
online.

Connecting to a cellular network

If your computer has a SIM slot, you can connect to the internet us
a cellular phone network. To do this, you must have a compatible S
card and a data contract with your cellular provider. Contact y
cellular provider for more information on connecting to the int
using a cellular network.

Bluelight Shield

The Bluelight Shield can be enabled to reduce blue-light emission from the screen to protect your eyes.

To configure the Bluelight Shield, search for 'Quick Access' in the Start Menu. From here you can toggle Bluelight Shield on or off, and you can choose from four different modes to fit your needs:

No.	Item	Description
1	Low Reduction	Reduces blue light emission from the LED screen by 10% to 25% for basic protection.
2	Medium Reduction	Reduces blue light emission from the LED screen by 26% to 45% to protect your eyes
3	High Reduction	Reduces blue light emission from the LED screen by 46% to 65% for maximum protec
4	Long Hour Mode	Professionally tuned to reduce eye strain o extended period of time.

Note

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

S ECURINGYOURCOMPUTER

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

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

Using a computer security lock

The computer comes with a computer security slot for a security lo

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

Using passwords

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

• Supervisor Password prevents unauthorized entry into the E
  utility. Once set, you must enter this password to gain access to
  BIOS utility. See Setting passwords on page   37.

• User Password secures your computer against unauthorized u
  Combine the use of this password with password checkpoints
  boot-up and resume from Hibernation (if available) for max
  security.

• Password on Boot secures your computer against unauthor
  use. Combine the use of this password with password checkp
  on boot-up and resume from Hibernation (if available) for max
  security.

Important

Do not forget your Supervisor Password! If you forget your passwc

Entering passwords

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

- When the Supervisor Password is set, a prompt appears when yo enter the BIOS utility.

- Type the Supervisor Password and press Enter to access the BIO utility. If you enter the password incorrectly, a warning mess appears. Try again and press Enter.

- When the User Password is set and the password on boo parameter is enabled, a prompt appears at boot-up.

- Type the User Password and press Enter to use the computer. you enter the password incorrectly, a warning message appears 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 ho the power button for four seconds to shut down the computer. Ther turn on the computer again, and try again.

B I O S   UTILITY

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

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

To activate the BIOS utility, press F2 while the computer logo is bei
displayed.

Boot sequence

To set the boot sequence in the BIOS utility, activate the BIOS utilit
then select Boot from the categories listed on the top of the screen

Setting passwords

To set a password on boot, activate the BIOS utility, then sele
Security from the categories listed on the top of the screen.

Find Set Supervisor Password and enter a password to enable t
feature. Once you have entered a password for this feature, you m
then enable/disable Password on Boot.

Remember to select F10 to properly save and exit the BIOS utili
when you are done making changes.

POWER MANAGEMENT

This computer has a built-in power management unit that mo
system activity. System activity refers to any activity involving or
more of the following devices: keyboard, mouse, hard
peripherals connected to the computer, and video memory. If
activity is detected for a period of time, the computer stops some o
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 sn
amount of power to check for signals to start. These checks will slo
drain your computer's battery.

If you prefer to reduce your computer's power requirements a
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. Press the Windows key or select the Windows Start button th
   select Settings > System > Power & sleep.
2. Select Additional power settings.
3. Select Choose what the power buttons do.

4. Select Change settings that are currently unavailable.

5. Scroll down and disable Turn on fast startup.

6. Select Save changes.

B ATTERYPACK

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

Battery characteristics

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

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

Charging the battery

Plug the AC adapter into the computer, and connect to a mains po
outlet.

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 wi
fully charged battery.*

Conditioning a new battery pack

Before you use a battery pack for the first time, there is a condition
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 sys

3. Disconnect the AC adapter.

4. Operate the computer using battery power.

5. Fully deplete the battery until the battery-low warning appears.

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

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

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

• Using the computer on constant AC power.

• Not discharging and recharging the battery to its extremes,
  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
  more than 1,000 charge/discharge cycles.

Optimizing battery life

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

• Use AC power whenever possible, reserving battery for mobile us

• Remove accessories that are not being used (e.g. a USB di
  drive), as they can continue to draw power.

• Store your PC in a cool, dry place. The recommended temperatu
  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 cu[rsor]
over the battery/power icon on the taskbar to see the battery's pres[ent]
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-lo[w]
warning appears. Data may be lost if the battery is allowed to beco[me]
fully depleted and the computer shuts down.

When the battery-low warning appears, the recommended cours[e of]
action depends on your situation:

Situation	Recommended Action
The AC adapter and a power outlet are available.	1. Plug the AC adapter into the computer, an[d] then connect to the main power supply. 2. Save all necessary files. 3. Resume work. Turn off the computer if you want to recha[rge] the battery rapidly.
The AC adapter or a power outlet is unavailable.	1. Save all necessary files. 2. Close all applications. 3. Turn off the computer.

TRAVELINGWITHYOURCOMPUTER

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

Disconnecting from the desktop

Follow these steps to disconnect your computer from ext 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 m and other external devices.

7. Disconnect the Kensington / Noble lock if you are using one t secure the computer.

Moving around

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

Preparing the computer

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

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

You can put the computer in Sleep mode by pressing the Slee
hotkey or by closing the display.

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

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

What to bring to meetings

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

If the meeting room does not have an electrical outlet, reduce
drain on the battery by putting the computer in Sleep mode. Press
Sleep hotkey or close the display cover whenever you are not activ
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 th
steps to prepare the computer for the trip home:

• Check that you have removed all media and compact discs from
  drive(s). Failure to remove the media can damage the drive hea

• Pack the computer in a protective case that can prevent t
  computer from sliding around and cushion it if it should fall.

Warning
Avoid packing items next to the top cover of the computer. Pressu

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
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

When you are moving within a larger distance, for instance, from yo 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 the battery in the computer is charged. Airport security may requ 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, fo 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 ray machines are safe, but do not put the computer through a m detector.

Traveling internationally

Important
Check with your airline for any special requirements for travelling w

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 official

• International Travelers Warranty passport.

Special considerations

Follow the same special considerations as when traveling wit
computer.

In addition, these tips are useful when traveling internationally:

• When traveling in another country, check that the local AC volt
and the AC adapter power cord specifications are compatible. If
purchase a power cord that is compatible with the local AC volta
Do not use converter kits sold for appliances to power the compu

• If you are using the modem, check if the modem and connector a
compatible with the telecommunications system of the country
are traveling in.

Ports and connectors...

In this section you will find:

- Information on the ports and connectors fitted to your compute

UNIVERSAL SERIAL BUS (USB

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

Note
Two USB standards are currently available on Acer computers: USB 2
(High-speed USB) and USB 3.0 (SuperSpeed USB). USB 2.0 ports on Ac
computers have a black tongue in the port, while USB 3.0 ports have a bl
tongue. For best performance, USB 3.0 devices should always be plug
into USB 3.0 ports. Consult your device's documentation to see wh
standard it supports.

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

Important
When removing a USB storage device, you should right-click on
USB icon in the Windows task bar and select "Eject <device>" to tell t
operating system to stop using the device before removing it. Failure t

USB TYPE-C PORT

A USB Type-C port is a connector that allows you to easily conn
USB Type-C peripherals, such as additional storage (e.g. an ext
drive), or any other compatible device.

The Type-C port is reversable; connectors may be inserted with eit
side up.

Note

*On Acer computers USB Type-C ports support up to USB 3.1 (SuperSpee
USB, 5 Gbps).*
*Other USB devices with a USB Type-C connector are supported, but trans
speed may be reduced and certain functions will be disabled (such
Thunderbolt video support).*

Important

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

SD CARDREADER

SD (Secure Digital) cards are used in a wide selection of digital cameras, tablets, media players and cellular phones.

Inserting an SD card

1. Align the card so that the connector points towards the port, with 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 AutoPlay 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.

Important

When removing an SD card, you should right-click on the USB icon in the Windows task bar and select "Eject <card name>" 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.

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.

VIDEO AND AUDIO CONNECTORS

Add an external monitor to your computer via a video port. The typ
port available depends on your computer's configuration.

Connecting a monitor

1. Check that the computer is powered off and the monitor po
   switch is turned off.
2. Attach the video cable to the monitor port on the computer.
3. Connect the monitor power cable and plug it into a prope
   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. The correct resolution and refresh rate should be dete
   automatically. If necessary, change the display settings used by
   computer.

Note
To access the display controls, right-click anywhere on the desktop
select Display settings.

Headphones and microphone

One or more 3.5 mm jacks on your computer allow you to conne
audio devices.

Use the headphone port to plug in stereo headphones or power
speakers; connecting an audio device to the headphone port dis
the built-in speakers.

Use the microphone port to connect an external microph
connecting a microphone disables the built-in microphone.

Note

H D M I

HDMI (High-Definition Multimedia Interface) is a high-quality, 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 connection and the best audio and visual quality.

Got a question?

In this section you will find:

- Frequently asked questions
- Tips for using Windows 10
- Troubleshooting information
- How to protect yourself while online
- Where to find Acer service center contact information

FREQUENTLYASKEDQUESTIONS

The following is a list of possible situations that may arise during th
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.

Check if power is being supplied to the computer (if your compu
has a power indicator, it will be off); if there is no power, check th
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 pa
  You may need to wait a few minutes before trying to turn yo
  computer on again.

- Make sure that the AC adapter is properly plugged into th
  computer and to the power outlet.

If power is being supplied to the computer, 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 drive or smartpho
  plugged into your computer? Unplug it and press Ctrl + Alt + Del
  restart the system.

Nothing appears on the screen.

The computer's power management system automatically blank
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 mi
be the cause:

- The brightness level might be too low. Use the Brightness up hotk
  to adjust the brightness level.

- The display device might be set to an external monitor. Press t
  display toggle hotkey to toggle the display back to the computer.

- The computer may be in Sleep or Hibernate mode (if there is a

No audio is heard from the computer.

Check the following:

- The volume may be muted. Look at the volume control (speak
  icon in the taskbar. If it is crossed-out, click the icon and drag
  slider to the right to increase the volume.

- The volume level may be too low. Check the volume from th
  volume control (speaker) icon in the taskbar. You can also use t
  volume control hotkeys to adjust the volume.

- If headphones, earphones or external speakers are connected
  the headphone jack on the computer, the internal spea
  automatically turn off.

I want to eject the optical drive tray without turning on the power.

There is a mechanical eject hole on the optical drive. Insert the tip of a
pen or straightened-out paperclip into the hole and push to eject the tr

The keyboard does not respond.

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

The printer does not work.

- Make sure that the printer is connected to a power outlet and that
  is turned on.

- Make sure that the printer cable is connected securely to a USB p
  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 langua
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 ori

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 sett

1. If there is a D2D Recovery setting in Main, make sure it is Enabl

2. Exit the BIOS utility and save changes. The system will reboot.

Note

To access the BIOS utility, press F2 when you see the Acer logo during bo up.

For more information,

Requesting service

International Travelers Warranty (ITW)

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

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

If the country you are traveling in does not have an Acer-authori ITW service site, you can still get in contact with our offices worldw Please visit www.acer.com.

Before you call

Please have the following information available when you call Acer online service, and please be at your computer when you call. V your support, we can reduce the amount of time a call takes and h solve your problems efficiently. If there are error messages or b

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 10

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

How do I get to Start?

Press the Windows key or select the Windows Start button on th
lower left-hand corner of the screen. Selecting it will open Start whe
you can launch apps.

How do I see all of my apps?

Press the Windows key or select the Windows Start button to show
list of installed apps on the computer.

How do I turn off my computer?

Press the Windows key or select the Windows Start button and sel
the power icon > Shut down. You can also turn off the computer
right-clicking the Windows Start button > Shut down or sign o
Shut down.

Can I turn off notifications?

You can turn off notifications so that you can leave your compute
running, but not be disturbed by notifications.

Press the Windows key or select the Windows Start button and sel
Settings > System > Notifications & actions. From here you c
enable/disable notifications for all of your apps or choose which
to enable/disable.

How do I unlock my computer?

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

Can I personalize the Lock screen?

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

To change the background, press the Windows key or select *Windows Start button and select Settings > Personalization > L* screen. From here you can:

• Select a background image for the lock screen

• Turn the Slideshow on or off

• Select lock screen apps.

How do I set up the lock screen slideshow?

1. Press the Windows key or select the Windows Start button ar select Settings > Personalization.

2. Under Lock screen, select Slideshow.

3. Select Add a folder and open the folder you wish to use (yo *Pictures folder will open by default). Select Choose this folder* add the folder to the lock screen slideshow.

4. Select a folder and select Remove to remove the folder from lock screen slideshow.

5. Change the other settings to suit your needs.

How do I move tiles?

Select a tile and drag it to the place on Start that you want it t appear. Other tiles will be moved to accommodate the tile in its location.

Can I arrange tiles in groups?

Yes, you can. Select an existing tile and drag the tile to arrange Sta to your liking. Right-click on an app and select Pin to Start to create new group on Start. From here, you can drag the tile to an existi group on Start. You can give the group(s) a name and arrange t tiles within the groups to suit your needs.

Can I change the screen resolution?

Yes, you can. Move your cursor to the lower left-hand corner of
screen and type 'Resolution' in the text box to display the results; sele
Change the resolution of the display. Alternatively, you can
right-click anywhere on the desktop and select Display settin
Display.

How do I set the alarm?

Your computer can act as an alarm clock. Type 'Alarms' to search f
the Alarms & Clock app.

1. Select an alarm from the list, or select the + in the lower-right corne
   to create a new alarm.
2. Enter the Alarm name.
3. Set the time by choosing the hour and minute.
4. Select AM or PM.
5. Choose which days the alarm should go off.
6. Select the sound notification.
7. Select the snooze time.
8. Select the Save icon in the bottom right-hand corner to save the ala
9. Select On or Off to activate or deactivate the alarm.

Hour

Minutes

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

Where are my apps?

Move your cursor to the lower left-hand corner of the screen and cl
search box, start typing the name of the app you would like to oper

How do I make an app appear on Start?

If you're in all apps list and you want to make an app appear on Sta
right-click an app and select Pin to Start.

How do I remove a tile from Start?

Right-click a tile to select it and select Unpin from Start to remov
the tile from Start.

How do I make an app appear on my taskbar?

If you're in all apps list and you want to make an app appear on the
taskbar, right-click an app or tile and select More > Pin to taskbar.

How do I install apps?

You will need to have a Microsoft ID to purchase and download app
from Microsoft Store.

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

Move your cursor to the lower left-hand corner of the screen and cl
search box. Type the name of the app you would like to op
Alternatively, open all apps list and scroll to 'Windows Accessories'
see the list of legacy programs.

What is a Microsoft ID (account)?

A Microsoft account is an email address and password that you us

Microsoft account, you'll connect your PC to the people, files,
devices you care about.

Do I need one?

You do not need a Microsoft ID to use Windows 10, but it makes lif
easier because you can sync data across different machines you s
in to using a Microsoft ID.

How do I get one?

If you've already installed Windows 10 and didn't sign in wi
Microsoft account or you don't have a Microsoft account and wa
get one, press the Windows key or select the Windows Start butto
Settings > Accounts > Sign in with a Microsoft account inst
and follow the onscreen instructions.

How do I check for Windows updates?

Press the Windows key or select the Windows Start button > Settin
> Update & Security > Windows Update. Select Advanced op
to configure the settings.

Where can I get more information?

For more information please visit the following pages:

- Windows 10 information: go.acer.com/windows-tutor
- Support FAQs: support.acer.com

Troubleshooting

This chapter shows you how to deal with common system problem
Read it before calling a technician if a problem occurs. Solutions
more serious problems require opening up the computer. Do
attempt to open the computer yourself; contact your dealer
authorized service center for assistance.

Troubleshooting tips

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

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

Error messages

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

Error messages	Corrective action
CMOS battery bad	Contact your dealer or an authorized serv center.
CMOS checksum error	Contact your dealer or an authorized serv center.
Disk boot failure	Insert a system (bootable) disk, then pres Enter to reboot.
Equipment configuration error	Press F2 (during POST) to enter the BIOS utility, then press Exit in the BIOS utility to reboot.
Hard disk 0 error	Contact your dealer or an authorized serv center.

Error messages	Corrective action
I/O parity error	Contact your dealer or an authorized serv center.
Keyboard error or no keyboard connected	Contact your dealer or an authorized serv center.
Keyboard interface error	Contact your dealer or an authorized serv center.
Memory size mismatch	Press F2 (during POST) to enter the BIOS utility, then press Exit in the BIOS utility to reboot.

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

INTERNETANDONLINESECURITY

First steps on the net

Protecting your computer

It is vital to protect your computer from viruses and attacks over internet (see Internet security software on page 70).
A comprehensive internet security program is offered when you start your computer. You should activate this protection as soon possible, certainly before you connect to the internet.

Choose an Internet Service Provider

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

Connection types

Depending on your computer model, your location and y communication needs, you have several ways to connect t internet.

Dial-up

Some computers include a telephone dial-up ('modem') connect

internet as the connection speed is low and connection tim
typically charged per hour.

DSL (e.g. ADSL)

DSL (Digital Subscriber Line) is an 'always-on' connection that r
over the phone line. As DSL and phone do not use the sam
frequencies, you can use your telephone at the same time you a
connected to the internet (this requires a 'micro-filter' on ea
telephone socket to avoid interference). To be eligible for DSL, y
must be located near an DSL-equipped phone exchange (servic
sometimes unavailable in rural areas). Connection speeds
depending on your location, but DSL generally provides very fas
reliable internet connection. As the connection is always-on, i
generally charged at fixed monthly rates.

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

Cable

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

Cellular

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

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

Network connections

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

Wireless networks

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

What are benefits of a wireless network?

Mobility

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

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

Installation speed and simplicity

Installing a wireless LAN system can be fast and easy and eliminat 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 th following:

Access point (router)

Access points (routers) are two-way transceivers that broadcast into the surrounding environment. Access points act as a med between wired and wireless network. Most routers have a built-in D modem that will allow you access to a high speed DSL interne

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

Network cable (RJ45)

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

Wireless adapter

Most computers feature a wireless module and Wi-Fi button that tu
the network connection on or off. You may also turn your wireles
network on or off, or control what is shared over the network with t
network management options.

Warning
Using wireless devices while flying in aircraft may be prohibited. Sw
off all devices before boarding an aircraft; they may be dangerous t
the operation of the aircraft, disrupt communications, and even b
illegal. After take off, ask the cabin crew if you may enable Wi-Fi.

Surf the Net!

To surf the internet, you need a program called an
internet browser. Microsoft Edge provides an easy and
secure web browsing experience. As soon as you have
your internet access installed and you are connected,
from the Start Menu, click the Microsoft Edge tile or the
icon located in the taskbar and take your internet
experience to a new level!

Acer website

To get you started why not visit our website, www.acer.com.

Acer is dedicated to provide you with on-going personalized sup
Check out our Support section to get help tailored to your needs.

www.acer.com is your portal to a world of online activities a

Internet security software

To help you stay ahead of cybercriminals, Acer has partnered w
Norton to offer you security for all your devices.

Select Acer computers include protection by Norton Securi

Norton Security is pre-installed on select Acer computers, prote
your identity and financial data from viruses, spyware, malware
other online threats. Learn more about how to stay safe online a
how to stay protected after your introductory subscription ends.

Note
Specifications vary depending on model or Operating System.

Staying ahead of cybercriminals

Stay ahead of hackers and cybercriminals by understandin
tactics they use to access your private data.

Ensure your software is up to date

Cybercriminals rely heavily upon software or platform vulnerabil
as they are the easiest way to sneak malware into a user's devi
unnoticed, sometimes with little action on the user's part. Immed
after a software manufacturer announces an update, hackers
ready with malware that can breach holes in the software that w
have been patched if the update was installed.

How to stay safe: Perform any and all software updates as soor
they are available.

Keep a lookout for fake or phishing emails

Beware of emails that appear to be from a friend or busine
colleague that you know but seem a little odd. Maybe they di
capitalize your name or there are misspellings. The email might
from cybercriminals who are trying to fool you into sending them yo
credit card number, social security number, or logging into a f
bank website that looks like yours but really isn't.

How to stay safe: Use a strong antispam filter. If an email lo

Don't be fooled if someone calls your phone

A tech support scam is a form of online fraud where people call you on the phone saying they're Technical Support from a trust company like Norton or Microsoft and that you have a virus. The m motive behind these scams is to extort money from the victim Cybercriminals can also install malware such as keylogging soft or backdoor Trojans in order to gain access to personal information

How to stay safe: Don't fall for phone calls that tell you your softwa or computer isn't working. Never give your personal information social security or credit card numbers to someone that you don't kn over the phone.

Common threats cybercriminals use

Now you know a few very common ways cybercriminals try to sn onto your device or trick you into providing private information to th directly. Here are a few of the types of malware they like to depl once they've got into a device and what to do if you're ever infected

Ransomware

A form of malware that will encrypt personal data files on y computer and attached devices. Encryption converts files into a format, that can only be opened with a specific decryption key. O the ransomware installs itself, it will display a warning message the computer is now locked. The user is given a specific amoun money to pay as a "fine" and a timeframe in which to pay. Even paid, the criminal might choose to not unencrypt the files anyway!

What to do if you're infected: Avoid getting infected in the first pl by staying protected with internet security software like Nor Security. Also, perform regular backups of all your data either on or to a separate external hard drive that is only attached to yo computer while performing the backup. Ransomware has been to lock access to external hard drives attached to the computer.

If you are infected with ransomware, think twice before you pay ransom. There is no guarantee the cybercriminal will unlock your fi and you'll be funding them to prey upon another innocent victim

Botnets

A botnet is a string of infected, connected computers coordina[ted]
together to perform a task. Botnets gain access to your mach[ine]
through some piece of malicious coding. Once the softwar[e is]
downloaded, the botnet will now contact its master computer and l[et it]
know that everything is ready to go. Now your computer, pho[ne,]
tablet, or IoT device is entirely under the control of the person w[ho]
created the botnet. Most people who are infected with botnets a[ren't]
even aware that their computer's security has become comprom[ised.]

What to do if you're infected: If you're infected you probably d[on't]
realize it as bots are notoriously quiet. Your Internet Service Pro[vider]
might send you a notification alerting you that they found a threat [on]
your network and that you need to remove the bot. If you have a b[ot,]
use internet security software like Norton Security to scan all of [your]
devices.

Viruses/Malware

"Virus" is the commonplace word for all malicious software prog[rams]
for years now; however, a virus is just one type of malicious threat.[A]
virus is classified as a self-replicating piece of malicious code [that]
travels by inserting itself into files or programs.

What to do if you're infected: Take steps to avoid infection [by]
staying protected with internet security software like Norton Sec[urity.]
If you subscribed to Norton Security and think you may have a viru[s,]
contact Norton's on-call technicians to help eliminate the virus.

Take special precautions when using public Wi-Fi

Public Wi-Fi is available just about everywhere, from the local c[offee]
shop to the hotels and airports you visit while traveling. While pu[blic]
Wi-Fi has made our lives a little easier, it also poses security risks [to]
the personal information available on our laptops and smartpho[nes. A]
virtual private network (VPN) gives you online privacy and anon[ymity]
by creating a private network from a public internet connection. VP[Ns]
mask your internet protocol (IP) address so your online actions a[re]
virtually untraceable as well as secure. One of the biggest secu[rity]

between these transmissions. They then set up tools programm
"listen in" on transmissions, intercept data that is specifically targ
as valuable, and capture the data, such as your login credentials a
passwords.

Use a virtual private network (VPN) to ensure your privacy
anonymity are protected when you use public Wi-Fi. VPN ser
can encrypt all the data that you send and receive while using a pu
Wi-Fi hotspot, securing your information from hackers and other us
of the same connection.

For more tips on how to stay safe

Good security habits can reduce your exposure to online crime.
adopting a few basic behaviors, you can make big strides in reduci
cybercrime risk:

• Protect your accounts with strong, unique passwords that us
   combination of at least 10 uppercase and lowercase lette
   symbols and numbers.

• Don't click on random links or open unsolicited messages ar
   attachments-particularly from people you don't know.

• Don't access any personal information or social media acco
   over unprotected Wi-Fi networks.

• Use security software on your devices to help protect yourself fro
   the latest threats.

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 chec
important updates for your computer and install them automatica
These updates include security patches and program updates
can improve your computing experience and help protect y
computer against new viruses and attacks.

How do I know when my computer is at risk?

However, do not blame every computer problem on a virus! If yo
suspect your computer is infected, the first thing to do is update, if
have not already done so, and run your antivirus and anti-spywa
software.

PLAYING BLU-RAYOR DVD MO

If your computer is equipped with a Blu-Ray or DVD drive, you
play movies on your computer or on a high-definition TV via HDMI.

1. Insert the disc into the drive.

2. After a few seconds, the movie will start playing.

3. If the movie does not start playing, open your movie playba
   program and open the disc from the File menu.

Important
When you launch the DVD player for the first time, the program ask
you to enter the region code. DVDs are available for 6 regions.

Region code	Country or region
1	USA, Canada
2	Europe, Middle East, South Africa, Japan
3	Southeast Asia, Taiwan, South Korea
4	Latin America, Australia, New Zealand
5	Former USSR, parts of Africa, India
6	People's Republic of China

Note
To change the region code, insert a DVD movie of a different region into t
DVD drive.
Once your DVD drive is set to a region code, it will only play DVDs for tha
region. You can set the region code a maximum of five times (including th
first time), after which the last region code set will remain permanent.
Recovering your hard disk does not reset the number of times the reg
code has been set.