




## Voicemail

All unanswered calls to your phone are sent to voicemail, even if your phone is turned off, so you'll want to set up your voicemail and personal greeting as soon as you activate your phone.

- From the Home screen, touch  **Voicemail**.  
— or —  
From the Home screen, touch  **Apps →**  
 **Voicemail**.



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**Note:** For more information about setting up and checking voicemail, see “*Voicemail*” on page 67.

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## VPN Client

Easily configure connections to a VPN (Virtual Private Network).

- From the Home screen, touch  **Apps →**  
 **VPN Client**.




## VZ Navigator

Use VZ Navigator<sup>®</sup> to find, share and navigate to millions of locations, avoid traffic and drive or walk with ease.

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**Note:** VZ Navigator requires service activation. Contact Verizon Wireless for more information.

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- From the Home screen, touch  **Apps →**  
 **VZ Navigator**.  
— or —  
From a Home screen, touch the  **VZ Navigator** shortcut.

## YouTube

View and upload YouTube videos, right from your phone.

- From the Home screen, select  **Apps →**  
 **YouTube**.

## Section 7: Connections

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### Wi-Fi

Wi-Fi is a wireless networking technology that provides access to local area networks.

Wi-Fi communication requires access to an existing Wi-Fi network. Wi-Fi networks can be Open (unsecured), or Secured (requiring you to provide login credentials).

Your phone supports the 802.11 a/b/g/n Wi-Fi protocols.

### Configuring Wi-Fi Settings

Configure your phone's Wi-Fi settings. For more information, see *“Wi-Fi Settings”* on page 112.

### Turning Wi-Fi On or Off

Turn your phone's Wi-Fi service on or off. When you turn Wi-Fi service on, your phone automatically searches for nearby available Wi-Fi networks.

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**Tip:** When you turn Wi-Fi service on, your phone automatically searches for available networks and displays them.

You can also turn Wi-Fi On or Off from Settings.

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1. From the Home screen, sweep your finger downward to display Notifications.
2. If Wi-Fi is not already on, touch **Wi-Fi Off** to turn on Wi-Fi.  
– or –

Touch **Wireless network available** to launch Wi-Fi settings, then touch **Wi-Fi** .

## Scanning and Connecting to a Wi-Fi Network

When you turn on Wi-Fi, your phone searches for available Wi-Fi connections, then displays them.

1. From the Home screen, sweep your finger downward to display Notifications.
2. If Wi-Fi is not already on, touch **Wi-Fi Off** to turn on Wi-Fi.

– or –

Touch **Wireless network available** to launch Wi-Fi settings, then touch **Wi-Fi** .

3. When your phone completes a scan, touch a Wi-Fi network to connect. If the Wi-Fi network is open, you will be automatically connected. If the Wi-Fi network is secured, enter the password at the prompt to connect.

## Adding a Wi-Fi Network Manually


1. From the Home screen, sweep your finger downward to display Notifications.
2. If Wi-Fi is not already on, touch **Wi-Fi Off** to turn on Wi-Fi.  
– or –

Touch **Wireless network available** to launch Wi-Fi settings, then touch **Wi-Fi** .



3. On the pop-up Wi-Fi settings screen, touch **Add Network** (below the scanned networks), then enter these fields:
  - **Network Name (SSID):** Enter the name of the Wi-Fi network.
  - **Security:** Select the type of security used by the Wi-Fi network.
  - **Password:** If the network is secured, enter the password.
4. Touch **Connect** to save the settings and connect to the network now, or **Save** to save the network settings for future use.

## Wi-Fi Direct



Wi-Fi Direct is a standard that allows devices to connect to each other directly via Wi-Fi, without a Wi-Fi network or hotspot, and without having to set up the connection. This type of connection is commonly called peer-to-peer.

For example, your device can use Wi-Fi Direct to share photos, contacts and other content with other Wi-Fi Direct devices. Many of the apps on your device provide options for sharing via Wi-Fi Direct under  **Menu**.

### Turning Wi-Fi Direct On or Off

1. From the Home screen, touch  **Menu**, then select **Settings** → **More settings**.
2. Touch **Wi-Fi Direct**  to turn Wi-Fi Direct On or Off.

### Connecting to Wi-Fi Direct Devices

1. First, enable Wi-Fi Direct on your device. From the Home screen, touch  **Menu**, then select **Settings** → **More settings**, then touch **Wi-Fi Direct**  .
2. Enable Wi-Fi Direct on the other device(s). Consult the other device's documentation for more information.
3. On your device, touch **Wi-Fi Direct** to scan for the other device(s).
4. In the scanned list, touch a device to connect with it, or touch **Multi-connect** to connect to multiple devices (not all devices support multi-connect).
5. Follow the prompts on both devices to complete the connection.

## Mobile Hotspot

Use Mobile Hotspot to share your phone's internet connection with a PC or other device through Wi-Fi, using your phone as the mobile hotspot.

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**Note:** Mobile Hotspot requires a subscription to Mobile Hotspot/Mobile Broadband Connect service. Contact Verizon Wireless for more information.

Mobile Hotspot consumes battery power and uses data service. While the Mobile Hotspot is active, your phone's applications will use the Mobile Hotspot data allowance.

---




### Configuring Mobile Hotspot Settings

Configure your phone's Mobile Hotspot settings, including your phone's name and password, and set the visibility of your phone's Wi-Fi hotspot.

For more information, see “*Configuring Mobile Hotspot*” on page 114.

### Turning Mobile Hotspot On or Off

Activate your phone's Mobile Hotspot application to allow other devices to use your phone's internet connection.

1. From the Home screen, select  **Apps** →  **Mobile Hotspot**.
2. Touch **Mobile Hotspot**  to turn the hotspot On or Off.

---

**Tip:** By default, your device's mobile hotspot has no security applied, and any device can connect. For more information about configuring your mobile hotspot, see “*Configuring Mobile Hotspot*” on page 114.

---

## Connecting a Device via Mobile Hotspot

Use the other device's Wi-Fi control to connect to your device's Mobile Hotspot.

1. Turn on Mobile Hotspot on your phone. For more information, see *"Turning Mobile Hotspot On or Off"* on page 101.
2. Activate Wi-Fi on the device, using the device's Wi-Fi control.
3. Scan for Wi-Fi hotspots, and select your device from the list. To find your device's name, see *"Configuring Mobile Hotspot"* on page 114.
4. At the prompt, enter your phone's Mobile Hotspot password. By default, the password is your phone's telephone number. For more information, see *"Configuring Mobile Hotspot"* on page 114.


## Bluetooth

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**Note:** For Hearing Aid Compatibility Information, see page 178.

---

Bluetooth is a short-range wireless communications technology for exchanging information over a distance of about 30 feet. You don't need to line up the devices to send information with Bluetooth. If the devices are in range, you can exchange information between them, even if they are in different rooms.

Your device can use Bluetooth to share photos, contacts and other content with other Bluetooth devices. Many of the apps on your device provide options for sharing via Bluetooth under  **Menu**.

### Configuring Bluetooth Settings


Configure your phone's Bluetooth settings. For more information, see *"Bluetooth settings"* on page 116.

---

**Note:** Bluetooth profiles are specifications for services supported by individual devices. For a list of profiles your phone supports, see *"Bluetooth profiles"* on page 115.

---

## Turning Bluetooth On or Off

1. From the Home screen, touch  **Menu**, then select **Settings**.
2. Touch **Bluetooth**  to turn Bluetooth On or Off.

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**Tip:** You can also turn Bluetooth On or Off on Notifications. From almost any unlocked screen, sweep your finger down from the Status bar to display Notifications.


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## Pairing with a Bluetooth Device


Search for a Bluetooth device and pair with it, to exchange information between your phone and the device.

After pairing, your phone and the target device will recognize each other and exchange information without a passcode or PIN.

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**Note:** When paired, the  **Bluetooth paired** icon displays in the Status Bar. If you receive a new request for pairing while paired with a Bluetooth headset, a new Bluetooth icon displays at the left of the Status bar and Notifications displays the pairing request.

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1. From the Home screen, touch  **Menu**, then select **Settings** → **Bluetooth**.
2. Touch **Bluetooth**  to turn Bluetooth On.
3. Activate the target device's discoverable mode.
4. Touch **Scan**.
5. From the list of scanned devices, touch the target device, then follow the prompts to complete the pairing:
  - If the target device requires a PIN, enter a PIN for the target device and touch **OK**. When prompted, enter the PIN on the target device.
  - If the device allows automatic or smart pairing, your phone will attempt to pair with the phone automatically. Follow the prompts on your phone and the target device to complete the pairing.

## VPN

You can use your phone's VPN (Virtual Private Network) feature to connect to VPNs.

### Configuring VPN Settings


Configure your phone's VPN settings. For more information, see “VPN” on page 119.

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**Note:** You must enable at least Pattern security before setting up a VPN. If you have not yet enabled security, you'll be prompted to do so the first time you launch VPN settings.

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### Adding a VPN

1. From the Home screen, touch  **Menu**, then select **Settings → More settings → VPN**.
2. Touch **Add VPN network** to set up a connection to a VPN. Available settings depend on the type of VPN.

## Tethering

Use Tethering to share your phone's internet connection with a computer that connects to your device via USB cable, or by Bluetooth.


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**Note:** Touch **Help** under Tethering settings to view information about tethering, and for links to more information.

---

### USB tethering

Use USB tethering to share your device's network connection with a computer that connects to your device via USB cable.

1. From the Home screen, touch  **Menu**, then select **Settings → More settings → Tethering**.
2. Connect the other device to your device via USB cable.
3. Touch **USB tethering** to turn tethering On or Off.



## Bluetooth tethering

Before starting, pair your computer with your phone, then configure your computer to obtain its network connection via Bluetooth.

1. From the Home screen, touch  **Menu**, then select **Settings → More settings → Tethering**.
2. Connect the other device to your device via USB cable.
3. Touch **Bluetooth tethering** to turn tethering On or Off.

---


**Important!** Tethering consumes battery power and increases your data usage. Roaming while using tethering will incur extra data charges.

---

## NFC and Beaming

Use NFC (Near Field Communication) to share information between your device and another NFC device by beaming, typically by touching the devices together back-to-back.

Your device uses NFC for the Android Beam and S Beam features. NFC must be turned on to use Android Beam or S Beam.

1. From the Home screen, touch  **Menu**, then select **Settings → More settings**.
2. Touch **NFC** to turn NFC On or Off.

---



**Note:** NFC must be turned on to use Android Beam or S Beam.

---

## Android Beam

Android Beam uses your phone's NFC (Near Field Communication) feature to send, or “beam”, content to another NFC-capable device, by holding the devices close together, typically back-to-back.

Use the sharing options from your favorite apps to select content to share via Android Beam. You can beam browser pages, YouTube videos, contacts, and more.



1. From the Home screen, touch  **Menu**, then select **Settings → More settings**.
2. Touch **NFC** to turn NFC On. NFC must be turned On to use Android Beam.
3. Touch **Android Beam**, then touch  to turn Android Beam On or Off.

## S Beam

Share more and share it faster with S Beam. From photos to documents, large video files to maps, you can share almost anything instantly with one touch, simply by placing your phones back-to-back.

S Beam uses your phone's NFC (Near Field Communication) feature to send, or “beam”, content to other NFC and Wi-Fi Direct devices, by holding the devices close together.

S Beam works in the background. Use the sharing options from your favorite apps to select content to share via S Beam. For example, you can beam pictures or videos from Gallery, or songs from Music player. Just bring the devices together (typically back-to-back), then tap the screen.

1. From the Home screen, touch  **Menu**, then select **Settings → More settings**.
2. Touch **NFC** to turn NFC On. NFC must be turned On to use S Beam.
3. Touch **S Beam**, then touch  to turn S Beam On or Off.

---

**Note:** If you turn on S Beam, NFC is automatically turned On.

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## Nearby devices

Share files with nearby devices using DLNA (Digital Living Network Alliance) standards, over Wi-Fi.



To share with nearby devices, you must connect to a Wi-Fi network. The devices you wish to share files with must also be connected to the same Wi-Fi network and must support DLNA.

---


**Important!** Use care when enabling file sharing for nearby devices. When enabled, other devices can access data on your device.

---

### Turning File sharing On or Off

1. From the Home screen, touch  **Menu**, then select **Settings** → **More settings** → **Nearby Devices**.
2. Touch **File sharing**  to turn sharing On or Off.

## Configuring File Sharing

1. From the Home screen, touch  **Menu**, then select **Settings** → **More settings** → **Nearby Devices**.
2. Under **Advanced**, touch options to control how content is shared from your device:
  - **Shared contents:** Choose the type of content to share, from **Videos**, **Photos**, or **Music**.
  - **Device name:** View or modify your device's name.
  - **Access control:** Choose whether other devices access your content, from **Allow all** or **Only allowed devices**.
  - **Allowed devices list:** View and manage devices allowed to connect to your device.
  - **Not-allowed devices list:** View and manage devices restricted from connecting to your device.
  - **Download to:** Choose a location to save downloaded content, from USB storage (phone memory) or SD card.
  - **Upload from other devices:** Choose how to handle incoming files from other devices, from **Always accept**, **Always ask**, or **Always reject**.

## Connecting to a Computer

Connect your device to a computer to transfer data between your device and the computer. Use the USB cable that comes with your device, or use one of the pre-loaded apps on your device to connect wirelessly.

### Transferring Data

Connect your device to a computer, via USB cable, to transfer data as a Media device using MTP (Media Transfer Protocol), or as a Camera using PTP (Photo Transfer Protocol).

1. Attach your phone to the computer with a USB data cable. Your phone recognizes the connection as the last connection method you used, and displays a connection alert in the Status bar and Notifications.
2. From the Home screen, sweep your finger downward to display Notifications, then touch the alert.
3. Select a connection method:
  - **Media device (MTP):** Transfer media files with Windows, or using Android file transfer on a Mac (see [www.android.com/filetransfer](http://www.android.com/filetransfer)).
  - **Camera (PTP):** Transfer photos using camera software, and transfer files to computers that do not support MTP.

4. On your computer, choose a method for accessing your device. Available options depend on the programs installed on your computer.
5. Transfer files to the memory card. When finished, you can disconnect the USB cable.

### Kies air

Manage content saved on your device via your desktop or mobile browser using Wi-Fi technology. The pre-loaded Kies air app connects via Wi-Fi to the Kies application, which you can install on your computer.

For more information, visit: [www.samsung.com/us/kies](http://www.samsung.com/us/kies)

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**Note:** To sync your device to a PC, it is highly recommended that you install Samsung Kies, which is available at <http://www.samsung.com/kies> (for Windows/Mac).

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**Note:** If you are a Windows XP user, ensure that you have Windows XP Service Pack 3 or higher installed on your computer. Also, ensure that you have Samsung Kies 2.0 or Windows Media Player 10 or higher installed on your computer.

---

## Connecting to Video Devices

You can connect your phone to video devices, such as a TV, dock, or gaming system, to view content from your phone on the other device. This type of connection uses an optional 11-pin HDTV Smart Adapter (not included), to connect your phone's USB/Accessory Port to the other device's HDMI port.

---

**Note:** Your phone has an 11-pin USB/Accessory Port, and supports 11-pin USB cables, which are compatible with existing USB charging and other accessories, but may not be compatible with other 5-pin cables and ports. If you have an HDTV Smart Adaptor that is not labeled for use with the Galaxy S III, an MHL™ Cable Adapter (not included) is required to connect your Galaxy S III to your HDTV.

---

## Memory Card

Your device supports removable microSD™ or microSDHC™ memory cards of up to 64GB capacity, for storage of music, pictures, videos, and other files.

By default, files that you download, or that you create with your device, such as pictures and videos you capture with Camera, are stored to your device's memory. For more storage capacity, you can set the memory card as the primary storage location for apps with the app's options.

For more information about viewing memory usage for the memory card, see “SD card” on page 133.

### **Installing and Removing a Memory Card**

For more information about installing and removing a memory card, see “Memory Card” on page 13.

---


**Important!** To prevent damage to data stored on the memory card, unmount the card before removing it from the phone.

---

## ***Mounting and Unmounting a Memory Card***

Mounting a memory card establishes the connection between your device and the card, to prepare for saving files to the memory card. In most cases, the phone mounts the card automatically when you install it, and displays the memory card status on Notifications.

Before removing the card, use the Mount/Unmount setting to unmount, it to prevent damage to data stored on the card.

1. From the Home screen, touch  **Menu**, then select **Settings → Storage**.
2. Touch **Unmount SD card**, then follow the prompts.


## ***Formatting a Memory Card***

Use the Format SD card setting to remove all data from an installed memory card.

---

**Important!** Data cannot be recovered after formatting.

---

1. From the Home screen, touch  **Menu**, then select **Settings → Storage**.
2. Touch **Format SD card**, then follow the prompts to confirm the deletion of data from the card.

## Section 8: Settings

---

### Accessing Settings


#### From the Home screen

- Touch  **Menu**, then select **Settings**.

— or —

Touch  **Apps** →  **Settings**.

#### From Notifications

- Touch and drag downward from the top of the screen to display notifications, then touch .

### Wi-Fi

Set up and manage your phone's connections to Wi-Fi networks. Your phone supports Wi-Fi a/b/g/n.

For more information about using Wi-Fi, see “Wi-Fi” on page 98.

### Turning Wi-Fi On or Off



Turn your phone's Wi-Fi service on or off. When you turn Wi-Fi service on, your phone automatically searches for available Wi-Fi networks.

---

**Tip:** When you turn Wi-Fi service on, your phone automatically searches for available networks and displays them.


You can also turn Wi-Fi On or Off from Notifications.

---


1. From the Home screen, touch  **Menu**, then touch **Settings**.
2. Touch **Wi-Fi**  to turn Wi-Fi On or Off.

## Wi-Fi Settings

Set up and manage wireless access points.

1. From the Home screen, touch  **Menu**, then select **Settings → Wi-Fi**.
2. Touch settings to configure:
  - **Notify me:** When enabled, your phone notifies you of Wi-Fi networks when you launch a high data-usage application.
  - **Add Network:** Connect to a new Wi-Fi network. For more information, see “*Adding a Wi-Fi Network Manually*” on page 99.
  - **Scan:** Search for available Wi-Fi networks.
  - **Advanced:** View and configure your phone's Wi-Fi settings.

## Advanced Wi-Fi settings

1. From the Home screen, touch  **Menu**, then select **Settings → Wi-Fi → Advanced**.
2. Configure settings:
  - **Auto-connect:** When enabled, your phone will automatically connect to known Wi-Fi networks when you launch a high data-usage application, even if Wi-Fi is turned off. A known Wi-Fi network is one that you previously added.
  - **Keep Wi-Fi on during sleep:** Specify when to switch from Wi-Fi to mobile data for data communications, when the phone goes to sleep (when the backlight goes out). This setting can affect your data usage, and the behavior of devices you connect to your phone, such as when tethering or using Mobile Hotspot.
  - **MAC address:** (Not configurable) View your phone's MAC address, needed for connecting to some secured networks.
  - **IP address:** (Not configurable) View your phone's IP address.



## Mobile Hotspot

Use Mobile Hotspot to share your phone's internet connection with up to 5 other devices, through Wi-Fi.

You can control whether devices connect to your Mobile Hotspot with the Allowed device list.

For more information about using your phone as a mobile hotspot, see “*Mobile Hotspot*” on page 101. You can also access Mobile Hotspot with the  **Mobile Hotspot** app.



---

**Note:** Mobile Hotspot may require a subscription to Mobile Hotspot/Mobile Broadband Connect service. For more information, contact Verizon Wireless.

Using your phone as a mobile hotspot consumes battery power and uses data service. While Mobile Hotspot is active, your phone's applications will use the Mobile Hotspot data service. Roaming while using your phone as a mobile hotspot will incur extra data charges.

---

## Turning Mobile Hotspot On or Off

1. From the Home screen, touch  **Menu**, then select **Settings**.
2. Touch **Mobile Hotspot**  to turn Mobile Hotspot On or Off.

---

**Note:** Using your phone as a mobile hotspot consumes battery power and uses data service. While Mobile Hotspot is active, your phone's applications will use the Mobile Hotspot data service. Roaming while using your phone as a mobile hotspot will incur extra data charges.

---

## Configuring Mobile Hotspot

1. From the Home screen, touch  **Menu**, then select **Settings → Mobile Hotspot**.
2. Touch **Configure** for these options:
  - **Network SSID:** View and change the name of your mobile hotspot.
  - **Hide my device:** When enabled, your mobile hotspot is not visible to other Wi-Fi devices during a scan. Other devices can still connect to your mobile hotspot, but will have to set up the connection manually with your Network SSID and Password.
  - **Security:** Choose the security level for your Mobile Hotspot.
  - **Password:** If you choose a security level that uses a password, enter the password. By default, the password is your mobile telephone number.
  - **Show password:** Enable to make the Password field visible.
  - **Show advanced options:** Enable to access advanced options, including Broadcast channel, to specify the channel your device uses for Mobile Hotspot.


## Allowed Device List

Control whether devices connect to your Mobile Hotspot with the Allowed device list. After you add devices to the list, they can scan for your device and connect using your device's mobile hotspot name and password.

---

**Note:** Using your phone as a mobile hotspot consumes battery power and uses data service. While Mobile Hotspot is active, your phone's applications will use the Mobile Hotspot data service. Roaming while using your phone as a mobile hotspot will incur extra data charges.

---

1. From the Home screen, touch  **Menu**, then select **Settings → Mobile Hotspot → Allowed device list**.
2. Touch , then enter the other device's Device name and MAC address.
3. Touch  to add the device to the **Allowed devices** list.

---

**Tip:** For information about connecting to your Mobile Hotspot, see *“Connecting a Device via Mobile Hotspot”* on page 102.

---

## Bluetooth

Your phone supports Bluetooth® 4.0.

### Bluetooth profiles

Bluetooth profiles are specifications for services supported by individual devices. Profiles improve the ability of different devices to work together. Your phone supports these Bluetooth profiles:

- **Headset:** HSP v1.2 profile supports use of compatible Bluetooth headsets for mono voice.
- **Handsfree:** HFP v1.5 profile supports Bluetooth headsets, and may also support other compatible Bluetooth devices with speakerphone capabilities.
- **Stereo:** A2DP v1.2, AVRCP v1.0, GAVDP 1.2, AVCTP 1.3 and AVDTP 1.2 profiles support delivery of stereo audio to compatible Bluetooth devices.
- **Object Exchange:** OPP v1.0 profile allows sending and receiving of contact name cards (vCard 2.1) and calendar events (vCalendar) between devices. PBAP v1.2 supports exchange of Phone Book Objects.
- **Human Interface Devices:** HID v1.0 profile supports certain interface devices.

- **Personal Area Networking:** PAN 1.0 supports exchange of data with other devices.
- **Message Access Profile:** MAP 1.0 allows exchange of text messages between devices, such as with an automotive hands-free device.
- **Health Device Profile:** HDP allows communication with medical devices.



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**Note:** This device does not support all Bluetooth profiles.

For vehicle/accessory compatibility, visit  
[www.verizonwireless.com/bluetoothchart](http://www.verizonwireless.com/bluetoothchart).

---

### Turning Bluetooth On or Off

1. From the Home screen, touch  **Menu**, then select **Settings**.
2. Touch **Bluetooth**  to turn Bluetooth On or Off.

---

**Tip:** You can also turn Bluetooth On or Off at Notifications.

---



## Bluetooth settings

Pair with other Bluetooth devices, manage your Bluetooth connections, and control your device's visibility to other devices.

---

**Note:** Bluetooth must be turned On to access Bluetooth settings.



---

1. From the Home screen, touch  **Menu**, then select **Settings** → **Bluetooth**.
2. Touch a setting to configure Bluetooth:
  - Touch  to turn Bluetooth On or Off.
  - Touch your phone's name to control its visibility to other devices' Bluetooth searches. Available when Bluetooth is turned On.
  - Touch **Scan** to search for visible Bluetooth devices. After searching, touch a device to pair with it. For more information, see *"Pairing with a Bluetooth Device"* on page 103.

## Data usage

Control your device's connection to mobile data service, and monitor your data usage.

### Turning Mobile data On or Off

1. From the Home screen, touch  **Menu**, then select **Settings** → **Data usage**.
2. Touch **Mobile data**  to turn mobile data On or Off.

---


**Tip:** You can also turn Mobile Data On or Off at Notifications.

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## Setting a mobile data limit

Set a mobile data limit, to have your phone automatically disable the mobile data connection when the limit is reached. You can set a warning threshold, to have your device alert you when data usage nears your set limit.

Data usage is measure by your device, and your service provider may account for usage differently, so you may want to consider using a conservative limit. Contact your service provider for more information on actual data usage.

1. From the Home screen, touch  **Menu**, then select **Settings → Data usage**.
2. Touch **Limit mobile data usage** to enable the limit. Touch **Alert me about data usage** to have your device alert you when data usage reaches the warning you set.
3. Configure the limit by touching and dragging the limit and warning lines on the graph.


## Viewing data usage by app or process

1. From the Home screen, touch  **Menu**, then select **Settings → Data usage**.
2. Scroll down the page to see the top three processes or apps using mobile data service. Touch a process or app to see data usage for the process or app, and to configure specific settings.

## More Wireless and Network Settings

### Airplane mode

When airplane mode is enabled, all your phone's wireless connections are disabled, and you cannot make or receive calls or messages or connect to networks. While in airplane mode, you can use other features of your phone, such as playing music, watching videos, or other applications.

1. From the Home screen, touch  **Menu**, then select **Settings → More settings**.
2. Touch **Airplane mode** to enable or disable airplane mode.

---

**Note:** Airplane mode can also be controlled from Notifications, and from Device options when you press and hold the



**Power/Lock Key.**


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### Kies via Wi-Fi

Kies air makes it easy to manage content saved on your device via your desktop or mobile browser using Wi-Fi technology.

Using Kies via Wi-Fi requires the Samsung Kies application on your computer. For more information, see “Kies Air” on page 85.


Your device, and the computer with the Kies application, must be connected to the same Wi-Fi network.

1. From your computer, launch the Samsung Kies application, and connect to a Wi-Fi network.
2. On your device, connect to the same Wi-Fi network.
3. From the Home screen touch  **Menu**, then select **Settings → More settings → Kies via Wi-Fi**.

## VPN

Set up and manage Virtual Private Networks (VPNs). For more information about using VPNs, see “VPN” on page 104.

### Adding a VPN

1. From the Home screen, touch  **Menu**, then select **Settings → More settings → VPN**.
2. Touch **Add VPN network** to set up a connection to a VPN. Available settings depend on the type of VPN.

---


**Note:** You must enable at least Pattern security before setting up a VPN. If you have not yet enabled security, you'll be prompted to do so the first time you launch VPN settings.

---

## Tethering

Use Tethering to share your phone's internet connection with a computer that connects to your device via USB cable, or by Bluetooth.

For more information about connecting computers to your phone via Tethering, see “Tethering” on page 104.

1. From the Home screen, touch  **Menu**, then select **Settings → More settings → Tethering**.
2. Choose a tethering method:
  - **USB tethering:** Connect the computer to the phone via USB cable, then touch **USB Tethering** to turn tethering On or Off.
  - **Bluetooth tethering:** Pair your phone with the computer via Bluetooth. Consult the computer's documentation for more information about configuring your computer to pair via Bluetooth. Touch **Bluetooth Tethering** to turn tethering On or Off.

---


**Note:** Using Tethering requires a subscription to Mobile Hotspot/Mobile Broadband Connect service. For more information, contact Verizon Wireless.

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## NFC

Use NFC (Near Field Communication) to share information between your phone and another NFC device by touching the devices together, typically back-to-back.

For more information about sharing information with NFC, see “*NFC and Beaming*” on page 105.

1. From the Home screen, touch  **Menu**, then select **Settings → More settings**.
2. Touch **NFC** to turn NFC On or Off.

---



**Note:** NFC must be turned on to use Android Beam or S Beam.

---

## Android Beam

Android Beam uses your phone’s NFC (Near Field Communication) feature to send, or “beam”, content to another NFC device, by holding the devices close together.

Android Beam works in the background. Use the sharing options from your favorite apps to select content to share via Android Beam. You can beam browser pages, YouTube videos, contacts, and more.



1. From the Home screen, touch  **Menu**, then select **Settings → More settings**.
2. Touch **NFC** to turn NFC On. NFC must be turned On to use Android Beam. When On, a check appears in the checkbox.
3. Touch **Android Beam**, then touch  to turn Android Beam On or Off.



## S Beam

S Beam uses your phone's NFC (Near Field Communication) to send, or "beam", content to other NFC and Wi-Fi Direct devices, by holding the devices close together.



Android Beam works in the background. Use the sharing options from your favorite apps to select content to share via Android Beam. For example, you can beam pictures or videos from Gallery, or songs from Music player. Just bring the devices together (typically back-to-back), then tap the screen.

1. From the Home screen, touch  **Menu**, then select **Settings → More settings**.
2. Touch **NFC** to turn NFC On. NFC must be turned On to use S Beam.
3. Touch **S Beam**, then touch  to turn S Beam On or Off.

## Wi-Fi Direct

Wi-Fi Direct allows devices to connect to each other directly via Wi-Fi, without a Wi-Fi network or hotspot, and without having to set up the connection. For example, your phone can use Wi-Fi Direct to share photos, contacts and other content with other Wi-Fi Direct devices. For more information, see "*Wi-Fi Direct*" on page 100.

Turning Wi-Fi Direct On or Off

1. From the Home screen, touch  **Menu**, then select **Settings → More settings**.
2. Touch **Wi-Fi Direct**  to turn Wi-Fi Direct On or Off.

## Configuring Wi-Fi Direct

1. From the Home screen, touch  **Menu**, then select **Settings → More settings**.
2. Touch **Wi-Fi Direct** to configure settings:
  - When you turn on Wi-Fi Direct, your device automatically searches for available Wi-Fi Direct devices. Touch **Scan** to start a new search.
  - After scanning for devices, touch a device to connect to it, then follow the prompts to complete the connection.
  - Touch **Multi-connect** to create a connection to devices that support multi-connect. Touch **Scan** to search for available multi-connect devices, then touch the devices you want to connect to and follow the prompts to complete the connection.

## Nearby devices

Share files with devices using DLNA (Digital Living Network Alliance) standards, over Wi-Fi.



To use devices for sharing, you must connect to a Wi-Fi network. The devices you wish to share files with must also be connected to the same Wi-Fi network and must support DLNA.

For more information about connecting to Wi-Fi, see “*Wi-Fi*” on page 111.

---

**Important!** Use care when enabling file sharing for devices. When enabled, other devices can access data on your device.

---

1. From the Home screen, touch  **Menu**, then select **Settings → More settings → Nearby devices**.
2. Touch **File sharing**  to turn file sharing via DLNA On or Off.
3. Under **Advanced**, touch options to control how content is shared from your device:
  - **Shared contents:** Choose the type of content to share, from **Videos**, **Photos**, or **Music**.

- **Device name:** View or modify your device's name.
- **Access control:** Choose whether other devices access your content, from **Allow all** or **Only allowed devices**.
- **Allowed devices list:** View and manage devices allowed to connect to your device.
- **Not-allowed devices list:** View and manage devices restricted from connecting to your device.
- **Download to:** Choose a location to save downloaded content, from USB storage (phone memory) or SD card.
- **Upload from other devices:** Choose how to handle incoming files from other devices, from **Always accept**, **Always ask**, or **Always reject**.


## Mobile networks

Set options for network selection and data service.

---

**Important!** Depending on your service plan, changes you make to mobile networks settings may incur extra charges. Consult Verizon Wireless for more information.


---

1. From the Home screen, touch  **Menu**, then select **Settings → More settings → Mobile networks**.
2. Set these options:
  - **Use packet data:** Enable or disable your phone's connection to the mobile data network. You can also control this setting at Notifications with the Mobile data toggle.
  - **Global Data Roaming Access:** Enable or disable connection to data services when your device is roaming on another network. For more information about roaming, see *"Roaming"* on page 12.
  - **Roaming:** (Not configurable) View the current roaming status.
  - **Access Point Names:** Configure wireless network access.


## Sound

### Silent mode

Use Silent modes to temporarily silence the sounds your phone makes, except for media playback and alarms, or replace them with vibration.

1. From the Home screen, touch  **Menu**, then select **Settings → Sound → Silent mode**.
2. Select a mode:
  - **Off**: Use your sound settings.
  - **Vibrate**: Enable Vibrate mode, to replace sounds with vibration. You can also enable Vibrate mode by pressing the Volume Key down from the Home screen, by pressing and holding the # key on the Phone keypad, or from Notifications.
  - **Mute**: Enable Mute mode, to silence all sounds.

---

**Tip:** Silent mode is also available from Notifications, and from Device options when you press and hold the  **Power/Lock Key**.

---

## Volume

Set the system volume level, and set default volume for call ringtones, notifications, and media playback.

---



**Note:** You can also set System volume from the Home screen by pressing the **Volume Key**.

---

1. From the Home screen, touch  **Menu**, then select **Settings → Sound → Volume**.
2. Touch and drag the sliders for:
  - **Music, video, games, and other media**: Set the default volume level for audio playback. You can also adjust volume from this default inside the apps.
  - **Ringtone**: Set the volume for incoming call ringtones.
  - **Notifications**: Set the volume for notifications, such as new messages and event reminders.
  - **System**: Set the volume for all other system sounds, such as keytones played for screen touches. You can control whether tones play for screen touches with other sound settings.
3. Touch  to save your settings.



## Vibration intensity

Set the level for vibration to accompany ringtones and notifications.

1. From the Home screen, touch  **Menu**, then select **Settings → Sound → Vibration intensity**.
2. Touch and drag the sliders for:
  - **Incoming call:** Set the vibration level for incoming call ringtones.
  - **Notification:** Set the vibration level for notifications, such as new messages and event reminders.
  - **Haptic feedback:** Set the vibration level vibrations to accompany screen touches.
3. Touch  to save your settings.

## Device ringtone

Choose a ringtone for incoming calls.

1. From the Home screen, touch  **Menu**, then select **Settings → Sound → Device ringtone**.
2. Touch a ringtone to select it. As you touch ringtones, a sample plays, unless you have a Silent mode enabled.
3. Touch  to save your settings.



---

**Tip:** You can also set songs as ringtones for all calls, or for a selected contact. For more information, see “*Setting a Song as a Ringtone*” on page 89.

---



## Device vibration

Choose a vibration pattern to use when vibration is enabled.

1. From the Home screen, touch  **Menu**, then select **Settings → Sound → Device vibration**.
2. Touch a pattern to select it. As you touch patterns, a sample plays.
3. To create your own pattern, touch **Create**. Touch **Tap to create** in the pattern, then touch **Stop**. Touch **Save** to save your pattern.
4. Touch  to save your settings.

## Default notifications

Choose a default sound to play for notifications, such as for new messages and event reminders.

1. From the Home screen, touch  **Menu**, then select **Settings → Sound → Default notifications**.
2. Touch a sound to select it. As you touch sounds, a sample plays.
3. Touch  to save your settings.


---

**Tip:** You can also set songs as ringtones. For more information, see “*Setting a Song as a Ringtone*” on page 89.

---


## Sound and vibration

When enabled, vibration is played at the same time as sounds for calls and alerts.

1. From the Home screen, touch  **Menu**, then select **Settings → Sound → Sound and vibration**.
2. Touch Sound and vibration to turn the feature On or Off.


## Keytones

Keytones are sounds that play when you touch keys on the Phone keypad.

1. From the Home screen, touch  **Menu**, then select **Settings → Sound**.
2. Touch **Keytones** to turn key sounds On or Off.


## Touch sounds

Touch sounds play when you touch items on the screen, such as when making a selection.

1. From the Home screen, touch  **Menu**, then select **Settings → Sound**.
2. Touch **Touch sounds** to turn sounds On or Off.


## Screen lock sound

Screen lock sound plays when you lock or unlock the screen.

1. From the Home screen, touch  **Menu**, then select **Settings → Sound**.
2. Touch **Screen lock sounds** to turn sounds On or Off.


## Haptic feedback

When turned On, the phone vibrates to indicate screen touches and other interactions.

1. From the Home screen, touch  **Menu**, then select **Settings → Sound**.
2. Touch **Haptic feedback** to turn touch vibrations On or Off.


## Auto haptic

The Auto haptic setting controls whether haptic vibrations occur in downloaded apps.

1. From the Home screen, touch  **Menu**, then select **Settings** → **Sound**.
2. Touch **Auto haptic** to turn the setting On or Off.



## Emergency tone

You can set your phone to play an alert tone or vibrate during an emergency call (for example, calls to 911).

1. From the Home screen, touch  **Menu**, then select **Settings** → **Sound** → **Emergency tone**.
2. Touch **Alert** or **Vibrate**, or touch **Off** for no emergency tone.


## Display Brightness

Set the default screen brightness.

1. From the Home screen, touch  **Menu**, then select **Settings** → **Display** → **Brightness**.
2. Touch and drag the slider to set the brightness, or touch **Automatic brightness** to allow the phone to adjust brightness in response to light conditions.
3. Touch  to save the setting.

## Screen timeout


Set the length of delay between the last key press or screen touch and the automatic screen timeout (dim and lock).

1. From the Home screen, touch  **Menu**, then select **Settings** → **Display** → **Screen timeout**.
2. Touch a setting to select it.




## Smart stay

When On, the Smart stay feature prevents screen timeout, if you are using the phone. For example, the phone uses the front camera to identify your eyes, and keeps the screen bright for continued viewing.

1. From the Home screen, touch  **Menu**, then select **Settings → Display**.
2. Touch **Smart stay** to turn the feature On or Off.

## Auto-rotate screen

When enabled, the screen's orientation automatically changes when you rotate the phone.

1. From the Home screen, touch  **Menu**, then select **Settings → Display**.
2. Touch **Auto-rotate screen** to turn the feature On or Off.


---

**Tip:** You can also set Auto rotate from Notifications with the Screen rotation setting.

---

## Touch key light duration

Set the length of time the Menu and Back Keys remain lit after you touch them.

1. From the Home screen, touch  **Menu**, then select **Settings → Display → Touch key light duration**.
2. Choose a time period, or **Always off** or **Always on**.

## Font style

Set the font for screen displays.

1. From the Home screen, touch  **Menu**, then select **Settings → Display → Font style**.
2. Select a font, or touch **Get fonts online** to browse and download a new font.


## Font size

Set the font size for screen displays.

1. From the Home screen, touch  **Menu**, then select **Settings → Display → Font size**.
2. Select a font size.


## Auto adjust screen power

When turned On, your phone automatically analyzes the screen and adjusts the brightness to conserve battery power.

1. From the Home screen, touch  **Menu**, then select **Settings → Display**.
2. Touch **Auto adjust screen power** to turn the feature On or Off.


## Display battery percentage

When On, the battery's charge level displays in the Status bar next to the Battery icon.

1. From the Home screen, touch  **Menu**, then select **Settings → Display**.
2. Touch **Display battery percentage** to turn the setting On or Off.


## Gyroscope calibration

Calibrate your phone's motion sensors.

1. From the Home screen, touch  **Menu**, then select **Settings → Display → Gyroscope calibration**.
2. Follow the prompts to calibrate the motion sensors.

## Wallpaper

Customize the background of the Home and Lock screens.

1. From the Home screen, touch  **Menu**, then select **Settings → Wallpaper**.
2. Select a screen, from **Home screen**, **Lock screen**, or **Home and Lock screens**.
3. Select a source for wallpaper, from **Gallery**, **Live wallpaper**, or **Wallpapers**.
4. Follow the prompts to set the picture or wallpaper.


---

**Note:** You can also set Wallpaper by touching and holding on the Home screen.

---

## LED Indicator



The LED indicator on the front of the phone displays when the phone is locked, to notify you of status changes and events. Use LED indicator settings to configure how the LED functions.

1. From the Home screen, touch  **Menu**, then select **Settings → LED Indicator**.
2. Select options:
  - **Charging:** When enabled, the LED glows red when the phone is connected to a charger and charging, and blinks red when the phone is connected to a charger and there is a problem with charging. When enabled, the LED glows green when the phone is connected to a charger and the battery is fully charged.
  - **Low battery:** When enabled, the LED blinks red when battery power is low and the phone is not connected to charger.
  - **Missed event:** When enabled, the LED blinks blue for a missed call, message or other notification.

## Motion

You phone recognizes motion, to allow you to navigate and access features by moving the phone in specific gestures.



For more information about using gestures, see “*Hand Gestures*” on page 23.

1. From the Home screen, touch  **Menu**, then select **Settings → Motion**.
2. Configure settings by touching the setting to display a checkmark, or touch  beside the setting:
  - **Motion activation:** Turn On to have your phone recognize active gestures.
  - **Direct call:** When On, you can lift the phone to your ear while viewing a contact to dial the contact's phone number.
  - **Smart alert:** When On, the phone will automatically notify you to missed calls and alerts that occurred while the phone was stationary.
  - **Tap to top:** When On, a double tap on the top of the phone takes you to the top of the list.
  - **Tilt to zoom:** When enabled, tilting the phone while in Gallery or Internet causes the screen to zoom in or out.

- **Pan to move icon:** When On, moving the phone in a panning motion (side-to-side) moves a highlighted icon to a new location on the Home screen.
- **Pan to browse images:** When On, moving the phone in a panning motion while viewing an image moves focus around in the image.
- **Shake to update:** When On, shaking the phone starts a new scan for available devices.
- **Turn over to mute/pause:** When On, turning the phone screen-down automatically mutes incoming call ringtones and alerts sounds.
- **Palm swipe to capture:** When On, swiping the screen with the side of your hand (left to right, or right to left) captures a screen shot.
- **Palm touch to mute/pause:** When On, covering the screen with your hand mutes or pauses media playback.

## Power saving

Configure Power saving settings to conserve battery power.

1. From the Home screen, touch  **Menu**, then select **Settings → Power saving**.
2. Touch  beside **Power saving** to turn the setting On or Off. The setting must be On to configure options.
3. Touch **Power saving** to configure options. Touch an option to turn it On or Off:
  - **CPU power saving:** When On, the phone's maximum performance is limited. This does not affect normal usage, such as browsing and video playback.
  - **Screen power saving:** When On, the screen uses reduced frame refresh rate and lower brightness.
  - **Background color:** When On, the background uses lower brightness in Email and Internet.
  - **Turn off haptic feedback:** When On, no vibration plays when you touch the screen.
  - **Learn about power saving:** View details about Power saving options.

## Storage

Manage the use of memory resources in your phone's Device memory, and on an installed memory card.


### Device memory

View usage for your phone's internal memory.


---

**Note:** This setting cannot be configured.

---


1. From the Home screen, touch  **Menu**, then select **Settings → Storage**.
2. Under **Device memory**, view memory usage for various categories. Touch a category for more information.

### SD card

1. From the Home screen, touch  **Menu**, then select **Settings → Storage**.
2. Under **SD card**, view memory usage for various categories. Touch a category for more information.
3. Touch **Unmount SD card** to prepare the memory card for safe removal or formatting. For more information, see *"Removing a Memory Card"* on page 14.
4. Touch **Format SD card** to permanently remove all content from an installed memory card. For more information, see *"Formatting a Memory Card"* on page 110.

## Battery

See what's using battery power.

1. From the Home screen, touch  **Menu**, then select **Settings → Battery**.
2. View battery usage for applications and services currently running. Touch an item for more information, or to configure options for managing power use.


## Application manager

You can download and install applications from the Google Play™ Store, or create applications using the Android SDK and install them on your phone. Use Application manager to manage applications on your phone.

---

**Warning!** Because this device can be configured with system software not provided by or supported by Google or any other company, end-users operate these devices at their own risk.

---

1. From the Home screen, touch  **Menu**, then select **Settings → Applications manager**.
2. Touch **Downloaded**, **Running**, or **All** to view the status of applications and services. Touch an app or service for more information, and for app options, such as stopping or uninstalling.



## Accounts and sync

Set up and manage accounts, including Samsung, Google and Backup Assistant Plus, and your social networking accounts.

For more information about managing applications, see “Accounts” on page 36.

### Sync

When enabled, all accounts sync data at any time, automatically.

1. From the Home screen, touch  **Menu**, then select **Settings → Accounts and sync**.
2. Touch **Accounts and sync**  to enable or disable the setting.


## Managing accounts

Use Manage accounts to set up and configure your accounts.

---

**Note:** Available settings depend on the type of account. Not all settings are available for all accounts.

---


1. From the Home screen, touch  **Menu**, then select **Settings → Accounts and sync**.
2. Under **Manage accounts**, touch the account to modify its settings.

---

**Tip:** For more information about managing accounts, see “Setting Up Your Accounts” on page 37.

---

## Adding an account

1. From the Home screen, touch  **Menu**, then select **Settings → Accounts and sync**.
2. Under **Manage accounts**, touch **Add account** and follow the prompts to enter your credentials and set up the account.

---

**Tip:** For more information about adding accounts, see “*Setting Up Your Accounts*” on page 37.


---

## Removing an account

---

**Important!** Removing an account also deletes all of its messages, contacts and other data from the phone.

---

1. From the Home screen, touch  **Menu**, then select **Settings → Accounts and sync**.
2. Touch an account to display its settings.
3. Touch **Remove account**, then follow the prompts to remove the account and delete all its messages, contacts and other data.

## Backup Assistant Plus

Backup Assistant Plus is a new service that integrates the features and capabilities of Backup Assistant, V CAST Media Manager, and Sync & Connect. Back up contacts, photos, music, documents and videos to a secure, online storage cloud. For more information, see “*Backup Assistant+*” on page 72.

- From the Home screen, touch  **Menu**, then select **Settings → Backup Assistant Plus**.



## Location services

Location services control your device's use of GPS signals. Some apps may require one or more location services be turned On for full app functionality.

GPS signals may be affected by your surroundings, including:

- Buildings
- Tunnels or underground structures
- Weather conditions
- High-voltage or electromagnetic fields
- Tinted windows

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**Important!** Verizon Wireless values your privacy. Because of this, your phone is defaulted to only acquire your location when you dial 911. To use Location-Based Services, you must first enable location services on your phone.

---

## E911

E911 location service is standard on all mobile phones, to allow sharing of your GPS location with emergency personnel when you make a call to emergency services (such as 911). This setting is not configurable.

- From the Home screen, touch  **Menu**, then select **Settings → Location services → E911**.

## VZW location services

Enable or disable location service from Verizon Wireless.


---

**Note:** VZW location services must be enabled to use some applications.

---

**Important!** By selecting VZW location services, you are enabling Verizon Wireless and third-party authenticated and validated location-enabled services access to certain location information available through this device and/or the network.

---

1. From the Home screen, touch  **Menu**, then select **Settings → Location services**.
2. Touch **VZW location services** to enable or disable Verizon Wireless location services.

## Standalone GPS services

Enable or disable location service from Standalone GPS services.


---

**Note:** Standalone location services must be enabled to use some applications. You can also enable or disable Standalone GPS services from Notifications. For more information, refer to “*Notifications*” on page 26.

---

**Important!** By selecting Standalone GPS services, you are allowing access to all location information by any third party through web access or any software or peripheral components you choose to install, download, add, or attach to the device or any other means. Enabling this functionality could pose certain risks to users of this device.

---

1. From the Home screen, touch  **Menu**, then select **Settings → Location services**.
2. Touch **Standalone GPS services** to enable or disable Standalone GPS services.

## Google location services

Enable or disable location services from Google location services.

---


**Note:** Google location services must be enabled to use some applications.

---

---

**Important!** By selecting Google location services, you are allowing Google's location service to collect anonymous location data. Some data may be stored on your device. Collection may occur even when no apps are running.

---


1. From the Home screen, touch  **Menu**, then select **Settings → Location services**.
2. Touch **Google location services** to enable or disable Google location services.

## Security

### Screen lock

Choose settings for unlocking your phone.





For more information about using the lock and unlock features, see “*Securing Your Phone*” on page 14.



1. From the Home screen, touch  **Menu**, then select **Settings → Security**.
2. Touch **Screen lock** for settings:
  - **Swipe:** When enabled, you unlock the phone by swiping your finger across the screen. This is the default screen lock, and offers no security, but you can set special lock screen options; see “*Lock screen options*” on page 140.
  - **Motion:** When enabled, you unlock the phone by touching and holding on the screen and tilting the phone forward. Touch the option for more information and a demonstration of the motion. This screen lock offers no security, but you can set special lock screen options; see “*Lock screen options*” on page 140.
  - **Face unlock:** When enabled, you unlock the phone by looking at the screen. This option offers low security, because someone who looks similar to you could unlock your phone. Touch the option for more information, and to set up Face unlock.

- **Face and voice:** When enabled, you unlock the phone by looking at the screen and speaking. This option offers low security, because someone who looks and/or sounds similar to you could unlock your phone. Touch the option for more information, and to set up Face unlock.
- **Pattern:** When enabled, you draw a pattern, which you create, on the screen to unlock the phone. Touch the option, then follow the prompts to create or change your screen unlock pattern.
- **PIN:** When enabled, you enter a numeric PIN (Personal Identification Number), which you create, to unlock the phone.
- **Password:** When enabled, you enter an alphanumeric password, which you create, to unlock the phone.
- **None:** Disable all custom screen lock settings, to use the default swipe unlock screen.

## Lock screen options


When the Screen lock is set to Swipe or Motion, set options for unlocking the screen.

1. From the Home screen, touch  **Menu**, then select **Settings → Security → Lock screen options**.
2. Configure these options:
  - **Shortcuts:** Touch  to control display of app shortcuts at the bottom of the lock screen. Touch **Shortcuts** to choose shortcuts to display: touch and drag a shortcut to a new position, or to the trash can to remove it, and touch **+** to select a new shortcut.
  - **Information ticker:** Touch  to control display of a scrolling ticker on the lock screen. Touch **Information ticker** to choose content to display.
  - **Camera quick access:** Touch  to enable or disable quick access to the camera from the lock screen using a motion gesture. When enabled, touch and hold on the lock screen, then rotate the device to landscape orientation to launch the Camera. Touch **Camera quick access** to learn about this gesture.

- **Clock:** Touch the check box to control display of a digital clock on the lock screen.
- **Dual clock:** Touch  to control display of a dual clock to show the time in two zones when you're traveling. Touch **Dual clock** to set a home city. When you have location services turned on while traveling, the dual clock will display the time in your home city and current location.
- **Weather:** Touch  to control display of current local weather conditions on the lock screen. Touch **Weather** to configure options.
- **Ripple effect:** Touch the check box to control whether the lock screen shows an effect when you swipe your finger across it to unlock the screen.
- **Help text:** Touch the check box to control display of tips as you use the lock screen.
- **Wake up in lock screen:** Touch the check box to enable or disable unlocking by spoken wake-up command.
- **Set wake-up command:** Configure wake-up commands, to be used when the Wake up in lock screen option is enabled. You can configure commands to wake up the phone, or other popular features.


## Owner information

Enter text to display on the Lock screen.

1. From the Home screen, touch  **Menu**, then select **Settings → Security → Owner information**.
2. Touch **Show owner info on lock screen** to enable display of Owner information on the Lock screen.
3. Enter Owner information text. For more information about entering text, see see *“Entering Text”* on page 33.

## Disable debug mode

When turned On, debug mode is disabled when the screen is locked. Debug mode is used in application development.

1. From the Home screen, touch  **Menu**, then select **Settings → Security**.
2. Touch **Disable debug mode** to turn the option On or Off.


## Encryption

As a security measure, you can encrypt the contents of your phone or an installed memory card, and require a password each time you turn on the phone or access the memory card.

Encryption may take an hour or more to complete. Start with a charged battery, and attach the charger until encryption is complete. Loss of power or other interruption may cause the loss of some or all data.


### Encrypt device

As a security measure, you can encrypt the contents of your device and require a password to access the contents each time you turn it on.

1. From the Home screen, touch  **Menu**, then select **Settings → Security**.
2. Touch **Encrypt device** to start encryption. Follow the prompts to complete encryption.

### Encrypt SD card

As a security measure, you can encrypt the contents of an installed SD card, and require a password each time you access the card.

1. From the Home screen, touch  **Menu**, then select **Settings → Security**.
2. Touch **Encrypt SD card** to start encryption. Follow the prompts to complete encryption.

## ***SIM card lock***


### **Set up SIM card lock**

As a security measure, you can choose to lock the SIM card, and require a PIN to use the phone.

1. From the Home screen, touch  **Menu**, then select **Settings → Security**.
2. Touch **Set up SIM card lock** for these settings:
  - **Lock SIM card:** Enable to require a PIN be entered to use the phone, then set the PIN.
  - **Change SIM PIN:** Create a PIN for accessing the SIM card.

## ***Passwords***

When enabled, password characters display briefly as you enter them.

1. From the Home screen, touch  **Menu**, then select **Settings → Security**.
2. Touch **Make passwords visible** to enable or disable brief displays of password characters.

## ***Device administration***


View or disable device administrators. Some applications, such as Corporate email, may require you allow access to your device by device administrators in certain circumstances, such as if your phone is lost or stolen.

Some features a device administrator might control include:

- Setting the number of failed password attempts before the phone is restored to factory settings
- Automatically locking the phone.
- Restoring factory settings on the phone.


## ***Device administrators***

View, add or remove device administrators.

1. From the Home screen, touch  **Menu**, then select **Settings → Security**.
2. Touch **Device administrators**.

## Unknown sources

When enabled, you can install applications from sources other than Google Play®.

1. From the Home screen, touch  **Menu**, then select **Settings → Security**.
2. Touch **Unknown sources** to enable or disable the option.

---

**Warning!** Because this device can be configured with system software not provided by or supported by Google or any other company, end-users operate these devices at their own risk.


---

## Credential storage

### Trusted credentials

You can install credentials from an installed memory card, and use the Credential storage settings to allow applications to access the secure certificates and other credentials.

### Trusted credentials

1. From the Home screen, touch  **Menu**, then select **Settings → Security**.
2. Touch **Trusted credentials** to view certificates you've installed.


### Install from device storage

Install encrypted certificates from an installed memory card.

---

**Note:** You must have installed a memory card containing encrypted certificates to use this feature.

---

1. From the Home screen, touch  **Menu**, then select **Settings → Security**.
2. Touch **Install from device storage**, then choose a certificate and follow the prompts to install.




## Clear credentials

Clear stored credentials and reset the password.

---

**Note:** This setting is only available if you have installed certificates.


---

1. From the Home screen, touch  **Menu**, then select **Settings → Security → Clear credentials**.
2. Follow the prompts to clear stored credentials and reset the password.

## Language and input




### Language

Set the language used by your phone's screens.

1. From the Home screen, touch  **Menu**, then select **Settings → Language and input → Language**.
2. Select a language from the list.

### Personal dictionary

Create and manage a list of words for use in text entry, for matching your key touches with words.


1. From the Home screen, touch  **Menu**, then select **Settings → Language and input → Personal dictionary**.
2. Manage your word list:
  - Select  to enter new words.
  - Touch a word to **Edit** the word.
  - Touch  to delete a word.

## Keyboards and input methods

Configure text entry options to your preferences.

### Default



Choose the default method for entering text. From the factory, the default method is Samsung keyboard. If you install other text entry apps, you can set them as default here.

1. From the Home screen, touch  **Menu**, then select **Settings → Language and input → Default**.
2. Touch an input method.

## Google voice typing settings

Configure Google voice input settings. When you enable Google voice in Settings, it is available for text entry when you touch a text field to enter text.



For more information, see *“Using Google Voice Typing”* on page 35.

1. From the Home screen, touch  **Menu**, then select **Settings → Language and input**.
2. Touch **Google voice typing** to enable it.
3. Touch  beside **Google voice typing** to configure options:
  - **Select input languages:** Select languages for Google voice typing. Select **Automatic** to use the Default language exclusively, or choose other language(s).
  - **Block offensive words:** When enabled, words many people find offensive are not shown in results of Google voice searches. Offensive words are replaced in results with a placeholder (####).

## Samsung keyboard

Configure Samsung keypad settings. When you enable Samsung keyboard in Settings, it is available for text entry when you touch a text field to enter text.


For more information, see *“Using Samsung Keyboard”* on page 33.

1. From the Home screen, touch  **Menu**, then select **Settings → Language and input**.
2. **Samsung keyboard** is enabled by default. Touch  to configure options:
  - **Portrait keyboard types:** Choose the default keypad when the screen is in portrait mode, from Qwerty or 3x4 keyboard (similar to a phone keypad).
  - **Input language:** Select languages for the Samsung keyboard.

---

**Tip:** When you have more than one language selected, you can slide your finger on the space bar while entering text to switch languages.



---

- **Predictive text:** Touch  to enable predictive text, to have predictive text suggest words matching your text entries and optionally, complete common words automatically. Touch **Predictive text** to configure options:
  - **Word completion:** When enabled, predictive text automatically completes words matching your key touches.
  - **Word completion point:** Choose the number of letters predictive text uses to predict words for automatic completion.
  - **Spell correction:** Enable for automatic spelling check and correction.
  - **Next word prediction:** When enabled, the system predicts the next word based on common usage patterns.
  - **Auto-append:** When enabled, the most common predicted word is automatically added to your text.
  - **Auto-substitution:** When enabled, predictive text automatically replaces words you enter with words from the auto substitution list.
  - **Regional correction:** When enabled, predictive text automatically changes the spelling of words based on norms for your default language.

- **Recapture:** When enabled, predictive text re-displays matching words when you make corrections to a word inserted automatically.
- **My word list:** Add words to your predictive text predictive text dictionary.
- **Auto substitution list:** Manage the list of words predictive text uses for auto-substitution (Auto-substitution setting must be enabled).
- **T9 Trace:** When enabled, you can sweep your finger over keypad letters to enter words. When you lift your finger, a word matching your sweep is entered automatically. Available when Predictive text is turned On.
- **Handwriting:** When enabled, Samsung keyboard recognizes on-screen tracing of words.
- **Voice input:** When enabled, the voice input key appears on the keyboard.
- **Auto-capitalization:** When enabled, predictive text automatically capitalizes words in your text based on common usage, such as at the beginning of sentences.
- **Auto-punctuate:** When enabled, a period and space are automatically entered to end a sentence, when you tap the space bar twice.
- **Character preview:** When enabled, characters available on the key you touch display briefly as you enter text.
- **Key-tap vibration:** When enabled, a vibration plays for your key touches.
- **Key-tap sound:** When enabled, a sound plays for your key touches.
- **Tutorial:** View help for using predictive text.
- **Reset settings:** Touch to reset Samsung keyboard settings to the defaults, except for My word list and the Auto substitution list.


## Voice cmd for apps

Use Voice cmd for apps settings to customize your phone's recognition feature for using voice commands to control your phone.


1. From the Home screen, touch  **Menu**, then select **Settings → Language and input**.
2. Touch  to enable Voice input control.
3. Touch **Voice cmd for apps** to configure settings:
  - **Incoming calls**: When enabled, you can make a call or end a call with voice commands like "Answer" or "Reject".
  - **Alarm**: When enabled, you can stop or snooze alarms with voice commands like "Stop" or "Snooze".
  - **Camera**: When enabled, you can take photos with voice commands like "Capture", "Shoot", "Smile" and "Cheese".
  - **Music**: When enabled, you can control music playback with voice commands like "Next", "Previous", "Play", "Pause", "Volume up", and "Volume down".

## Voice recognizer

Choose a voice recognition engine for your phone's recognition features.



1. From the Home screen, touch  **Menu**, then select **Settings → Language and input → Voice recognizer**.
2. Touch option.

## Voice search

1. From the Home screen, touch  **Menu**, then select **Settings → Language and input → Voice search**.
2. Set options:
  - **Language**: Choose a language for voice searching.
  - **SafeSearch**: Set the sensitivity for filtering of explicit images from the results of your Google voice searches.
  - **Block offensive words**: When enabled, words many people find offensive are not shown in results of Google voice searches. Offensive words are replaced in results with a placeholder (####).


## Text-to-speech output

Text-to-speech (TTS) provides audible readout of text, for example, the contents of text messages, and the Caller ID for incoming calls.

1. From the Home screen, touch  **Menu**, then select **Settings → Language and input → Text-to-speech output**.
2. Touch a setting to configure:
  - **Preferred TTS engine**
    - Select **Google Text-to-speech Engine**, or **Samsung TTS**.
  - **General**
    - **Speech rate**: Choose a rate at which text readouts are spoken.
    - **Listen to an example**: Play a sample of speech synthesis.
    - **Driving mode**: When enabled, incoming calls and new notifications are read out automatically. Touch  to enable. Touch **Driving mode** to choose items for readout when Driving mode is enabled.

## Mouse/trackpad

Customize the response of your screen swipes.


1. From the Home screen, touch  **Menu**, then select **Settings → Language and input → Pointer speed**.
2. Touch and drag along the scale to set the pointer speed.

## Back up and reset

Set options for backing up your information and resetting your device.


### Back up my data

When enabled, app data, Wi-Fi passwords, and other phone settings are backed up to Google servers.

1. From the Home screen, touch  **Menu**, then select **Settings → Back up and reset**.
2. Touch **Back up my data** to enable or disable back-up.


### Backup account

Sign in to a Google account to use for backing up settings.

1. From the Home screen, touch  **Menu**, then select **Settings → Back up and reset**.
2. Touch **Backup account**, then follow the prompts to sign in to a Google account.


### Automatic restore

Use Automatic restore to have previous app settings and data automatically update from the backup when you reinstall the app.

1. From the Home screen, touch  **Menu**, then select **Settings → Back up and reset**.
2. Touch **Automatic restore** to enable or disable the setting.

### Factory data reset

Use Factory data reset to return all settings to the defaults, and remove all data from the phone.

1. From the Home screen, touch  **Menu**, then select **Settings → Back up and reset**.
2. Touch **Factory data reset**, then follow the prompts.


---

**Important!** Settings and data erased in a Factory data reset cannot be recovered. To save your settings, you can use Back up my data settings before a reset.

---


## Dock

Configure your phone's behavior when it is connected to an optional dock (not included).

1. From the Home screen, touch  **Menu**, then select **Settings → Dock**.
2. Configure settings:
  - **Dock sound:** When enabled, a sound plays when you insert and remove the phone from the dock.
  - **Audio output mode:** When enabled, audio plays through the dock speakers when the phone is docked.
  - **Desk home screen display:** When enabled, displays a special screen when the phone is docked.

## Date and time

By default, your phone receives date and time information from the wireless network. When you are outside network coverage, you may want to set date and time information manually using the Date & time settings.

1. From the Home screen, touch  **Menu**, then select **Settings → Date and time**.
2. Touch a setting to configure:
  - **Automatic date and time:** When enabled, the phone takes date and time updates from the wireless network.
  - **Automatic time zone:** When enabled, the phone takes the time zone from the wireless network.
  - **Set date:** Enter the current date (only available when Automatic date and time is disabled).
  - **Set time:** Enter the current time (only available when the Automatic setting is disabled).
  - **Select time zone:** Choose your local time zone (only available when the Automatic setting is disabled).
  - **Use 24-hour format:** Set the format for time displays.
  - **Select date format:** Set the format for date displays.




## Accessibility

Your phone offers features to make using the phone easier for those with certain physical disabilities. Use the Accessibility settings to activate these services.

### Auto-rotate screen

When enabled, the screen's orientation automatically changes when you rotate the phone.

1. From the Home screen, touch  **Menu**, then select **Settings → Accessibility**.
2. Touch **Auto-rotate screen** to turn the feature On or Off.


---

**Tip:** You can also set Auto rotate from Notifications with the Screen rotation setting.

---


## Speak passwords


When enabled, you can speak passwords for log-ins.

1. From the Home screen, touch  **Menu**, then select **Settings → Accessibility**.
2. Touch **Speak passwords** to turn the feature On or Off.

## Call answering/ending

### Answering key

When enabled, you can answer an incoming call by pressing the  **Home Key**.


1. From the Home screen, touch  **Menu**, then select **Settings → Accessibility → Call answering/ending**.
2. Touch **Answering key** to enable or disable answering incoming calls by pressing the **Home Key**.

## The power key ends calls


When enabled, you can end voice calls by pressing the


 **Power/Lock Key**.

When this option is enabled, pressing the **Power/Lock Key** during a call does not lock the screen.

1. From the Home screen, touch  **Menu**, then select **Settings → Accessibility → Call answering/ending**.
2. Touch **The power key ends calls** to enable or disable the setting.


## Accessibility shortcut

When enabled, a link to Accessibility settings displays on the Device options menu, which appears when you press and hold the  **Power/Lock Key**. This provides quick access to accessibility settings, to make changes as you use the phone.

1. From the Home screen, touch  **Menu**, then select **Settings → Accessibility**.
2. Touch **Accessibility shortcut** to enable or disable the setting.


## Screen timeout

Set the length of delay between the last key press or screen touch and the automatic screen timeout (dim and lock).

1. From the Home screen, touch  **Menu**, then select **Settings → Accessibility → Screen timeout**.
2. Touch a setting to select it.

## Services


Enable or disable accessibility services.

1. From the Home screen, touch  **Menu**, then select **Settings → Accessibility**.
2. Touch **TalkBack** to enable or disable readout of menu options, application titles, contacts, and other items when scrolling and making selections.

## Vision


### Install Web scripts

When enabled, this service allows apps to install scripts from Google that make their Web content more accessible.

1. From the Home screen, touch  **Menu**, then select **Settings → Accessibility**.
2. Touch **Install Web scripts**, then follow the prompts to enable or disable the service.


### Negative colors

When enabled, Negative colors reverses the colors on the screen.

1. From the Home screen, touch  **Menu**, then select **Settings → Accessibility**.
2. Touch **Negative colors** to enable or disable reversal of screen colors.

## Font size


Set the font size for screen displays.

1. From the Home screen, touch  **Menu**, then select **Settings → Accessibility → Font size**.
2. Select a size.

## Hearing


### Mono audio

When enabled, sound is delivered as mono, to support listening with one earphone.

1. From the Home screen, touch  **Menu**, then select **Settings → Accessibility**.
2. Touch **Mono audio** to enable or disable the service.

### Turn off all sounds


When enabled, all sounds are disabled, including the voice portion of calls.

1. From the Home screen, touch  **Menu**, then select **Settings → Accessibility**.
2. Touch **Turn off all sounds** to enable or disable the service.

## **Mobility**

### **Tap and hold delay**

Set the length of time the phone considers a screen touch before interpreting a touch as touch-and-hold.


1. From the Home screen, touch  **Menu**, then select **Settings → Accessibility → Tap and hold delay**.
2. Touch a setting to select it.

## **Developer options**

Set options for use when developing apps for devices.


### **USB debugging**

When enabled, connecting your device to a computer with a USB data cable launches debugging mode.


1. From the Home screen, touch  **Menu**, then select **Settings → Developer options**.
2. Touch **USB debugging** to enable or disable the setting.

### **Development device ID**

View your device's unique identifier (not configurable).


1. From the Home screen, touch  **Menu**, then select **Settings → Developer options**.
2. Under **Development device ID**, find your device's ID.

### **Allow mock locations**

1. From the Home screen, touch  **Menu**, then select **Settings → Developer options**.
2. Touch **Allow mock locations** to enable or disable the setting.


## Desktop backup password

Set a password for protecting full desktop backups.

1. From the Home screen, touch  **Menu**, then select **Settings → Developer options**.
2. Touch **Desktop backup password**, then enter the current and new passwords. Touch **Set backup password** to save your settings.

## User interface


Set options for user interface behavior.

1. From the Home screen, touch  **Menu**, then select **Settings → Developer options**.
2. Touch options to enable or disable:
  - **Strict mode**: When enabled, the screen flashes while apps perform long operations.
  - **Show pointer location**: When enabled, the current pointer location shows on a screen overlay.
  - **Show touches**: When enabled, screen touches cause the screen to display visual feedback.
  - **Show screen updates**: When enabled, areas of the screen flash as they update.

- **Show CPU usage**: When enabled CPU usage displays on a screen overlay.
- **Force GPU rendering**: When enabled, 2D hardware acceleration is used in applications.
- **Window animation scale**: Choose a scale for window animations.
- **Transition animation scale**: Choose a scale for screen transitions.

## Apps

Set options for application behavior.

1. From the Home screen, touch  **Menu**, then select **Settings → Developer options**.
2. Touch options to enable or disable:
  - **Do not keep activities**: When enabled, activities are destroyed as soon as the user leaves them.
  - **Limit background processes**: Choose options for processes running in the background.
  - **Show all ANRs**: When enabled, an App Not Responding dialog displays for apps running in the background.

## About device

View information about your phone, including status, legal information, hardware and software versions, and a tutorial.

1. From the Home screen, touch  **Menu**, then select **Settings** → **About phone**.
2. Touch items to view details:
  - **Software update**: Check availability and install updates.
  - **Status**: View information about your phone's current status.
  - **Legal information**: Display open source licenses, configure license settings, including your DivX® VOD registration, and Google info.
  - **Model number**: View your phone's model number.
  - **Android version**: View the firmware version of your phone.
  - **Baseband version**: View the baseband version of your phone.
  - **Kernel version**: View the kernel version of your phone.
  - **Build number**: View the build number of your phone.
  - **Hardware version**: View the hardware version of your phone.

## Section 9: Health and Safety Information

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This section outlines the safety precautions associated with using your phone. The terms “mobile device” or “cell phone” are used in this section to refer to your phone. **Read this information before using your mobile device.**

### Exposure to Radio Frequency (RF) Signals

The U.S. Food and Drug Administration (FDA) has published information for consumers relating to Radio Frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

#### ***Do cell phones pose a health hazard?***

Many people are concerned that cell phone radiation will cause cancer or other serious health hazards. The weight of scientific evidence has not linked cell phones with any health problems.

Cell phones emit low levels of Radio Frequency (RF) energy. Over the past 15 years, scientists have conducted hundreds of studies looking at the biological effects of the radio frequency energy emitted by cell phones. While some researchers have reported biological changes associated

with RF energy, these studies have failed to be replicated. The majority of studies published have failed to show an association between exposure to radio frequency from a cell phone and health problems.

The low levels of RF cell phones emit while in use are in the microwave frequency range. They also emit RF at substantially reduced time intervals when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects.

The biological effects of radio frequency energy should not be confused with the effects from other types of electromagnetic energy.

Very high levels of electromagnetic energy, such as is found in X-rays and gamma rays, can ionize biological tissues. Ionization is a process where electrons are stripped away from their normal locations in atoms and molecules. It can permanently damage biological tissues including DNA, the genetic material.

The energy levels associated with radio frequency energy, including both radio waves and microwaves, are not great enough to cause ionization of atoms and molecules. Therefore, RF energy is a type of non-ionizing radiation. Other types of non-ionizing radiation include visible light, infrared radiation (heat), and other forms of electromagnetic radiation with relatively low frequencies.

While RF energy does not ionize particles, large amounts can increase body temperatures and cause tissue damage. Two areas of the body, the eyes and the testes, are particularly vulnerable to RF heating because there is relatively little blood flow in them to carry away excess heat.

### **Research Results to Date: Is there a connection between RF and certain health problems?**

The results of most studies conducted to date say no. In addition, attempts to replicate and confirm the few studies that have shown a connection have failed.

The scientific community at large therefore believes that the weight of scientific evidence does not show an association between exposure to Radio Frequency (RF) from cell phones and adverse health outcomes. Still the scientific community has supported additional research to address gaps in knowledge. Some of these studies are described below.

### **Interphone Study**

Interphone is a large international study designed to determine whether cell phones increase the risk of head and neck cancer. A report published in the International Journal of Epidemiology (June, 2010) compared cell phone usage for more than 5,000 people with brain tumors (glioma and meningioma) and a similar number of healthy controls.

Results of this study did NOT show that cell phones caused brain cancer. In this study, most people had no increased risk of brain cancer from using cell phones. For people with the heaviest use of cell phones (an average of more than ½ hour per day, every day, for over 10 years) the study suggested a slight increase in brain cancer. However, the authors determined that biases and errors prevented any conclusions being drawn from this data. Additional information about Interphone can be found at

[http://www.iarc.fr/en/media-centre/pr/2010/pdfs/pr200\\_E.pdf](http://www.iarc.fr/en/media-centre/pr/2010/pdfs/pr200_E.pdf).

Interphone is the largest cell phone study to date, but it did not answer all questions about cell phone safety. Additional research is being conducted around the world, and the FDA continues to monitor developments in this field.



## **International Cohort Study on Mobile Phone Users (COSMOS)**

The COSMOS study aims to conduct long-term health monitoring of a large group of people to determine if there are any health issues linked to long-term exposure to radio frequency energy from cell phone use. The COSMOS study will follow approximately 300,000 adult cell phone users in Europe for 20 to 30 years. Additional information about the COSMOS study can be found at

<http://www.ukcosmos.org/index.html>.

## **Risk of Brain Cancer from Exposure to Radio Frequency Fields in Childhood and Adolescence (MOBI-KIDS)**

MOBI-KIDS is an international study investigating the relationship between exposure to radio frequency energy from communication technologies including cell phones and brain cancer in young people. This is an international multi-center study involving 14 European and non-European countries. Additional information about MOBI-KIDS can be found at

[http://www.creal.cat/programes-recerca/en\\_projectes-creal/view.php?ID=39](http://www.creal.cat/programes-recerca/en_projectes-creal/view.php?ID=39).

## **Surveillance, Epidemiology, and End Results (SEER) Program of the National Cancer Institute**

The National Cancer Institute (NCI) actively follows cancer statistics in the United States to detect any change in rates of new cases for brain cancer. If cell phones play a role in risk for brain cancer, rates should go up, because heavy cell phone use has been common for quite some time in the U.S. Between 1987 and 2005, the overall age-adjusted incidence of brain cancer did not increase. Additional information about SEER can be found at

<http://seer.cancer.gov/>.

## **Cell Phone Industry Actions**

Although the existing scientific data do not justify FDA regulatory actions, the FDA has urged the cell phone industry to take a number of steps, including the following:

- Support-needed research on possible biological effects of RF for the type of signal emitted by cell phones;
- Design cell phones in a way that minimizes any RF exposure to the user; and
- Cooperate in providing users of cell phones with the current information on cell phone use and human health concerns.

The FDA also is working with voluntary standard-setting bodies such as the Institute of Electrical and Electronics Engineers (IEEE), the International Commission on Non-Ionizing Radiation Protection (ICNIRP), and others to assure that safety standards continue to adequately protect the public.

## **Reducing Exposure: Hands-Free Kits and Other Accessories**

### **Steps to Reduce Exposure to Radio Frequency Energy**

If there is a risk from being exposed to radio frequency energy (RF) from cell phones - and at this point we do not know that there is - it is probably very small. But, if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your RF exposure.

- Reduce the amount of time spent using your cell phone;
- Use speaker mode or a headset to place more distance between your head and the cell phone.

### **Hands-Free Kits**

Hands-free kits may include audio or Bluetooth® headsets and various types of body-worn accessories such as belt-clips and holsters. Combinations of these can be used to reduce RF energy absorption from cell phones.

Headsets can substantially reduce exposure because the phone is held away from the head in the user's hand or in approved body-worn accessories. Cell phones marketed in the U.S. are required to meet RF exposure compliance requirements when used against the head and against the body.

Because there are no known risks from exposure to RF emissions from cell phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used for convenience and comfort. They are also required by law in many states if you want to use your phone while driving.

### **Cell Phone Accessories that Claim to Shield the Head from RF Radiation**

Because there are no known risks from exposure to RF emissions from cell phones, there is no reason to believe that accessories which claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone.

Studies have shown that these products generally do not work as advertised. Unlike “hands-free” kits, these so-called “shields” may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption.

### **Children and Cell Phones**

The scientific evidence does not show a danger to any users of cell phones from RF exposure, including children and teenagers. The steps adults can take to reduce RF exposure apply to children and teenagers as well.

- Reduce the amount of time spent on the cell phone;
- Use speaker mode or a headset to place more distance between the head and the cell phone.

Some groups sponsored by other national governments have advised that children be discouraged from using cell phones at all. For example, The Stewart Report from the United Kingdom made such a recommendation in December 2000. In this report, a group of independent experts noted that no evidence exists that using a cell phone causes brain tumors or other ill effects. Their recommendation to limit cell phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations (updated 10/1/2010):

- FCC RF Safety Program:  
<http://www.fcc.gov/oet/rfsafety/>.
- Environmental Protection Agency (EPA):  
<http://www.epa.gov/radtown/wireless-tech.html>.
- Occupational Safety and Health Administration (OSHA):  
<http://www.osha.gov/SLTC/radiofrequencyradiation/>.  
(Note: This web address is case sensitive.)
- National Institute for Occupational Safety and Health (NIOSH):  
<http://www.cdc.gov/niosh/>.
- World Health Organization (WHO):  
<http://www.who.int/peh-emf/en/>.
- International Commission on Non-Ionizing Radiation Protection:  
<http://www.icnirp.de>.
- Health Protection Agency:  
<http://www.hpa.org.uk/Topics/Radiation/>.

- US Food and Drug Administration:

[http://www.fda.gov/Radiation-EmittingProducts/  
RadiationEmittingProductsandProcedures/  
HomeBusinessandEntertainment/CellPhones/default.htm](http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm).

## **Specific Absorption Rate (SAR) Certification Information**

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for Radio Frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government.

These FCC RF exposure limits are derived from the recommendations of two expert organizations: the National Council on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

The RF exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of absorption of RF energy by the human body

expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg).

The FCC SAR limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum reported value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output of the phone.

\*\*\*\*\*Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the SAR limit established by the FCC. Tests for each model phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC. For body-worn operation, this phone has been

tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the mobile device a minimum of **X.X?** cm from the body.

Use of other accessories may not ensure compliance with FCC RF exposure guidelines. The FCC has granted an Equipment Authorization for this mobile phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. **The maximum SAR values for this model phone as reported to the FCC is/are:**

- **Head:** XXXXXX???? W/kg.
- **Body-worn:** XXXXXX???? W/kg. \*\*\*\*\*

SAR information on this and other model phones can be accessed online on the FCC's website through <http://transition.fcc.gov/oet/rfsafety/sar.html>. To find information that pertains to a particular model phone, this site uses the phone FCC ID number which is usually printed somewhere on the case of the phone. Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional

SAR information can also be obtained at <http://www.fcc.gov/encyclopedia/specific-absorption-rate-sar-cellular-telephones>.

## **FCC Part 15 Information to User**

Pursuant to part 15.21 of the FCC Rules, you are cautioned that changes or modifications not expressly approved by Samsung could void your authority to operate the device.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Commercial Mobile Alerting System (CMAS)

This device is designed to receive wireless emergency alerts from the Commercial Mobile Alerting System ("CMAS"; which may also be known as the Personal Localized Alerting Network ("PLAN")). If your wireless provider has chosen to participate in CMAS/PLAN, alerts are available while in the provider's coverage area. If you travel outside your provider's coverage area, wireless emergency alerts may not be available. For more information, please contact your wireless provider.

## Smart Practices While Driving

### On the Road - Off the Phone

The primary responsibility of every driver is the safe operation of his or her vehicle.

Responsible drivers understand that no secondary task should be performed while driving whether it be eating, drinking, talking to passengers, or talking on a mobile phone - unless the driver has assessed the driving conditions and is confident that the secondary task will not interfere with their primary responsibility. **Do not engage in any activity while driving a moving vehicle which may cause you to take your eyes off the road or become so absorbed in the activity that your ability to concentrate on the act of driving becomes impaired.** Samsung is committed to promoting responsible driving and giving drivers the tools they need to understand and address distractions.

**Check the laws and regulations on the use of mobile devices and their accessories in the areas where you drive. Always obey them. The use of these devices may be prohibited or restricted in certain areas. For example, only hands-free use may be permitted in certain areas.**

Before answering calls, consider your circumstances. Let the call go to voicemail when driving conditions require.

Remember, driving comes first, not the call!

If you consider a call necessary and appropriate, follow these tips:

- Use a hands-free device;
- Secure your phone within easy reach;
- Place calls when you are not moving;
- Plan calls when your car will be stationary;
- Do not engage in stressful or emotional conversations;
- Let the person with whom you are speaking know that you are driving and will suspend the call if necessary;
- Do not take notes or look up phone numbers while driving;

Notice regarding legal restrictions on mounting this device in an automobile:

Laws in some states may prohibit mounting this device on or near the windshield of an automobile. In other states, the law may permit mounting this device only in specific locations in the automobile. Be sure to consult the state and local laws or ordinances where you drive before mounting this device in an automobile. Failure to comply with these restrictions could result in fines, penalties, or other damages.

Never mount this device in a manner that will obstruct the driver's clear view of the street and traffic.

**Never use wireless data services such as text messaging, Web browsing, or e-mail while operating a vehicle.**

**Never watch videos, such as a movie or clip, or play video games while operating a vehicle.**

For more information, go to <http://www.ctia.org>.

## Battery Use and Safety

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**Important! Handle and store batteries properly to avoid injury or damage.** Most battery issues arise from improper handling of batteries and, particularly, from the continued use of damaged batteries.

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- **Do not disassemble, crush, puncture, shred, or otherwise attempt to change the form of your battery.** Do not put a high degree of pressure on the battery. This can cause leakage or an internal short-circuit, resulting in overheating.

- **Do not let the phone or battery come in contact with liquids.** Liquids can get into the phone's circuits, leading to corrosion. Even when the phone appears to be dry and appears to operate normally, the circuitry could slowly corrode and pose a safety hazard. If the phone and/or battery get wet, have them checked by your service provider or contact Samsung, even if they appear to be working properly.
- **Do not place your battery in or near a heat source.** Excessive heating can damage the phone or the battery and could cause the phone or the battery to explode. Do not dry a wet or damp battery with an appliance or heat source such as a microwave oven, hair dryer, iron, or radiator. Avoid leaving your phone in your car in high temperatures.
- **Do not dispose of the phone or the battery in a fire.** The phone or the battery may explode when overheated.
- **Do not handle a damaged or leaking battery.** Do not let leaking battery fluid come in contact with your eyes, skin or clothing. For safe disposal options, contact your nearest Samsung-authorized service center.

- **Avoid dropping the cell phone.** Dropping the phone or the battery, especially on a hard surface, can potentially cause damage to the phone and battery. If you suspect damage to the phone or battery, take it to a service center for inspection.
- **Never use any charger or battery that is damaged in any way.**
- **Do not allow the battery to touch metal objects.** Accidental short-circuiting can occur when a metallic object (coin, key, jewelry, clip, or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.

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**Important!** Use only Samsung-approved batteries, and recharge your battery only with Samsung-approved chargers which are specifically designed for your phone.

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## WARNING!

**Use of a non-Samsung-approved battery or charger may present a risk of fire, explosion, leakage, or other hazard.** Samsung's warranty does not cover damage to the phone caused by non-Samsung-approved batteries and/or chargers.

- **Do not use incompatible cell phone batteries and chargers.**

Some websites and second-hand dealers not associated with reputable manufacturers and carriers, might be selling incompatible or even counterfeit batteries and chargers. Consumers should purchase manufacturer or carrier-recommended products and accessories. If unsure about whether a replacement battery or charger is compatible, contact the manufacturer of the battery or charger.

- **Misuse or use of incompatible phones, batteries, and charging devices could result in damage to the equipment and a possible risk of fire, explosion, or leakage, leading to serious injuries, damages to your phone, or other serious hazard.**

## Samsung Mobile Products and Recycling

Samsung cares for the environment and encourages its customers to recycle Samsung mobile devices and genuine Samsung accessories.

Proper disposal of your mobile device and its battery is not only important for safety, it benefits the environment. Batteries must be recycled or disposed of properly.

Recycling programs for your mobile device, batteries, and accessories may not be available in your area.

We've made it easy for you to recycle your old Samsung mobile device by working with respected take-back companies in every state in the country.

### Drop It Off

You can drop off your Samsung-branded mobile device and batteries for recycling at one of our numerous Samsung Recycling Direct (SM) locations. A list of these locations may be found at:

[http://pages.samsung.com/us/recyclingdirect/usactivities\\_environment\\_samsungrecyclingdirect\\_locations.jsp](http://pages.samsung.com/us/recyclingdirect/usactivities_environment_samsungrecyclingdirect_locations.jsp)

Samsung-branded devices and batteries will be accepted at these locations for no fee.

Consumers may also recycle their used mobile device or batteries at many retail or carrier-provided locations where mobile devices and batteries are sold. Additional information regarding specific locations may be found at:

<http://www.epa.gov/epawaste/partnerships/plugin/cellphone/index.htm> or at <http://www.call2recycle.org/>.

### Mail It In

The Samsung Mobile Take-Back Program will provide Samsung customers with a free recycling mailing label. Just go to

[http://www.samsung.com/us/aboutsamsung/citizenship/usactivities\\_environment\\_samsungrecyclingdirect.html?INT=ST\\_A\\_recycle\\_your\\_phone\\_page](http://www.samsung.com/us/aboutsamsung/citizenship/usactivities_environment_samsungrecyclingdirect.html?INT=ST_A_recycle_your_phone_page) and follow the instructions to print out a free pre-paid postage label and then send your old mobile device or battery to the address listed, via U.S. Mail, for recycling.

Dispose of unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

[www.samsung.com/recyclingdirect](http://www.samsung.com/recyclingdirect)

Or call, (877) 278-0799.

## Follow local regulations regarding disposal of mobile devices and batteries

Dispose of your mobile device and batteries in accordance with local regulations. In some areas, the disposal of these items in household or business trash may be prohibited. Help us protect the environment - recycle!

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**Warning!** Never dispose of batteries in a fire because they may explode.

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## UL Certified Travel Charger

The Travel Charger for this phone has met applicable UL safety requirements. Please adhere to the following safety instructions per UL guidelines:

**FAILURE TO FOLLOW THE INSTRUCTIONS OUTLINED MAY LEAD TO SERIOUS PERSONAL INJURY AND POSSIBLE PROPERTY DAMAGE.**

**IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.**

**DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.**

FOR CONNECTION TO A SUPPLY NOT IN NORTH AMERICA, USE AN ATTACHMENT PLUG ADAPTOR OF THE PROPER CONFIGURATION FOR THE POWER OUTLET.

THIS POWER UNIT IS INTENDED TO BE CORRECTLY ORIENTED IN A VERTICAL OR HORIZONTAL OR FLOOR MOUNT POSITION.

## Display / Touch-Screen

Please note the following information when using your mobile device:

### WARNING REGARDING DISPLAY

The display on your mobile device is made of glass or acrylic and could break if your mobile device is dropped or if it receives significant impact. Do not use if screen is broken or cracked as this could cause injury to you.

### WARRANTY DISCLAIMER: PROPER USE OF A TOUCH-SCREEN MOBILE DEVICE

If your mobile device has a touch-screen display, please note that a touch-screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch-screen may damage the tempered glass surface and void the warranty. For more information, please refer to the “Standard Limited Warranty”.

## GPS

Certain Samsung mobile devices can use a Global Positioning System (GPS) signal for location based applications. A GPS uses satellites controlled by the U.S. Government that are subject to changes implemented in accordance with the Department of Defense policy and the 2008 Federal Radio navigation Plan (FRP). Changes may affect the performance of location-based technology on your mobile device.

Even with GPS, when you make an emergency call:

- Always tell the emergency responder your location to the best of your ability; and

- Remain on the mobile device for as long as the emergency responder instructs you.

## Navigation

Maps, directions, and other navigation-data, including data relating to your current location, may contain inaccurate or incomplete data, and circumstances can and do change over time. In some areas, complete information may not be available. **Therefore, you should always visually confirm that the navigational instructions are consistent with what you see before following them. All users should pay attention to road conditions, closures, traffic, and all other factors that may impact safe driving or walking. Always obey posted road signs.**

## Emergency Calls


This mobile device, like any wireless mobile device, operates using radio signals, wireless and landline networks, as well as user-programmed functions, which cannot guarantee connection in all conditions, areas, or circumstances.

Therefore, you should never rely solely on any wireless mobile device for essential communications (medical emergencies, for example). Before traveling in remote or underdeveloped areas, plan an alternate method of contacting emergency services personnel. Remember, to

make or receive any calls, the mobile device must be switched on and in a service area with adequate signal strength.

Emergency calls may not be possible on all wireless mobile device networks or when certain network services and/or mobile device features are in use. Check with local service providers.

### \*\*\*\*\* To make an emergency call:

1. If the mobile device is not on, switch it on.
2. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
3. Press the “Send” key. 

If certain features are in use (call blocking, for example), you may first need to deactivate those features before you can make an emergency call. Consult your User Manual and your local cellular service provider. When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your mobile device may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so. \*\*\*\*\*

## Care and Maintenance

Your mobile device is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill any warranty obligations and allow you to enjoy this product for many years:

### Keep your Samsung Mobile Device away from:

#### Liquids of any kind

Keep the mobile device dry. Precipitation, humidity, and liquids contain minerals that will corrode electronic circuits. If the mobile device does get wet, do not accelerate drying with the use of an oven, microwave, or dryer, because this may damage the mobile device and could cause a fire or explosion.

Do not use the mobile device with a wet hand. Doing so may cause an electric shock to you or damage to the mobile device.

#### Extreme heat or cold

Avoid temperatures below 0°C / 32°F or above 45°C / 113°F.

#### Microwaves

Do not try to dry your mobile device in a microwave oven. Doing so may cause a fire or explosion.

#### Dust and dirt

Do not expose your mobile device to dust, dirt, or sand.

#### Cleaning solutions

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the mobile device. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.

#### Shock or vibration

Do not drop, knock, or shake the mobile device. Rough handling can break internal circuit boards.

#### Paint

Do not paint the mobile device. Paint can clog the device's moving parts or ventilation openings and prevent proper operation.

## Responsible Listening

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**Caution! Avoid potential hearing loss.**

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Damage to hearing occurs when a person is exposed to loud sounds over time. The risk of hearing loss increases as sound is played louder and for longer durations. Prolonged exposure to loud sounds (including music) is the most common cause of preventable hearing loss. Some scientific research suggests that using portable audio devices, such as portable music players and cell phones, at high volume settings for long durations may lead to permanent noise-induced hearing loss.

This includes the use of headphones (including headsets, earbuds, and Bluetooth® or other wireless devices). Exposure to very loud sound has also been associated in some studies with tinnitus (a ringing in the ear), hypersensitivity to sound, and distorted hearing. Individual susceptibility to noise-induced hearing loss and potential hearing problem varies. Additionally, the amount of sound produced by a portable audio device varies depending on the nature of the sound, the device settings, and the headphones that are used. As a result, there is no single volume setting that is appropriate for everyone or for every combination of sound, settings, and equipment.

You should follow some common sense recommendations when using any portable audio device:

- Always turn the volume down before plugging the earphones into an audio source.
- Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.
- Be aware that you can adapt to higher volume settings over time, not realizing that the higher volume may be harmful to your hearing.
- When using headphones, turn the volume down if you cannot hear the people speaking near you or if the person sitting next to you can hear what you are listening to.
- Do not turn the volume up to block out noisy surroundings. If you choose to listen to your portable device in a noisy environment, use noise-cancelling headphones to block out background environmental noise. By blocking background environment noise, noise cancelling headphones should allow you to hear the music at lower volumes than when using earbuds.
- Limit the amount of time you listen. As the volume increases, less time is required before your hearing could be affected.

- Avoid using headphones after exposure to extremely loud noises, such as rock concerts, that might cause temporary hearing loss. Temporary hearing loss might cause unsafe volumes to sound normal.
- Do not listen at any volume that causes you discomfort. If you experience ringing in your ears, hear muffled speech, or experience any temporary hearing difficulty after listening to your portable audio device, discontinue use and consult your doctor.

You can obtain additional information on this subject from the following sources:

#### **American Academy of Audiology**

11730 Plaza American Drive, Suite 300  
Reston, VA 20190

Voice: (800) 222-2336

Email: [info@audiology.org](mailto:info@audiology.org)

Internet:

<http://www.audiology.org/Pages/default.aspx>

#### **National Institute on Deafness and Other Communication Disorders**

National Institutes of Health  
31 Center Drive, MSC 2320  
Bethesda, MD 20892-2320

Email: [nidcdinfo@nih.gov](mailto:nidcdinfo@nih.gov)

Internet:

<http://www.nidcd.nih.gov/>

#### **National Institute for Occupational Safety and Health (NIOSH)**

395 E Street, S.W., Suite 9200  
Patriots Plaza Building  
Washington, DC 20201

Voice: 1-800-35-NIOSH

(1-800-356-4674)

1-800-CDC-INFO (1-800-232-4636)

Outside the U.S. 513-533-8328

Email: [cdcinfo@cdc.gov](mailto:cdcinfo@cdc.gov)

Internet:

<http://www.cdc.gov/niosh/topics/noise/default.html>

1-888-232-6348 TTY

## Operating Environment

Remember to follow any special regulations in force in any area, and always switch your mobile device off whenever it is forbidden to use it, or when it may cause interference or danger. When connecting the mobile device or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

### Using Your Mobile Device Near Other Electronic Devices

Most modern electronic equipment is shielded from Radio Frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless mobile device. Consult the manufacturer to discuss alternatives.

## Implantable Medical Devices

A minimum separation of six (6) inches should be maintained between a handheld wireless mobile device and an implantable medical device, such as a pacemaker or implantable cardioverter defibrillator, to avoid potential interference with the device.

Persons who have such devices:

- Should ALWAYS keep the mobile device more than six (6) inches from their implantable medical device when the mobile device is turned ON;
- Should not carry the mobile device in a breast pocket;
- Should use the ear opposite the implantable medical device to minimize the potential for interference;
- Should turn the mobile device OFF immediately if there is any reason to suspect that interference is taking place;
- Should read and follow the directions from the manufacturer of your implantable medical device. If you have any questions about using your wireless mobile device with an implantable medical device, consult your health care provider.

For more information see: <http://www.fcc.gov/oet/rfsafety/rf-faqs.html#>.



## **Other Medical Devices**

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch your mobile device off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

## **Vehicles**

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle before using your mobile device in a motor vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

## **Posted Facilities**

Switch your mobile device off in any facility where posted notices require you to do so.

## **Potentially Explosive Environments**

Switch your mobile device off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion

or fire resulting in bodily injury or even death. Users are advised to switch the mobile device off while at a refueling point (service station).

Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants, or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust, or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

## **When your Device is Wet**

Do not turn on your device if it is wet. If your device is already on, turn it off and remove the battery immediately (if the device will not turn off or you cannot remove the battery, leave it as-is). Then, dry the device with a towel and take it to a service center.

## FCC Hearing Aid Compatibility (HAC) Regulations for Wireless Devices

The U.S. Federal Communications Commission (FCC) has established requirements for digital wireless mobile devices to be compatible with hearing aids and other assistive hearing devices.

When individuals employing some assistive hearing devices (hearing aids and cochlear implants) use wireless mobile devices, they may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and mobile devices also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless mobile devices to assist hearing device users find mobile devices that may be compatible with their hearing devices. Not all mobile devices have been rated. Mobile devices that are rated have the rating on their box or a label located on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not

be able to use a rated mobile device successfully. Trying out the mobile device with your hearing device is the best way to evaluate it for your personal needs.

**M-Ratings:** Wireless mobile devices rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than mobile devices that are not labeled. M4 is the better/higher of the two ratings. M-ratings refer to enabling acoustic coupling with hearing aids that do not operate in telecoil mode.

**T-Ratings:** Mobile devices rated T3 or T4 meet FCC requirements and are likely to generate less interference to hearing devices than mobile devices that are not labeled. T4 is the better/higher of the two ratings. T-ratings refer to enabling inductive coupling with hearing aids operating in telecoil mode.

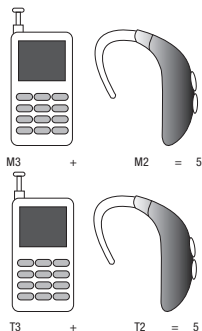
Hearing devices may also be rated. Your hearing aid manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise.

Under the current industry standard, American National Standards Institute (ANSI) C63.19, the hearing aid and wireless mobile device rating values are added together to indicate how usable they are together. For example, if a

hearing aid meets the M2 level rating and the wireless mobile device meets the M3 level rating, the sum of the two values equals M5.

Under the standard, this should provide the hearing aid user with normal use while using the hearing aid with the particular wireless mobile device. A sum of 6 or more would indicate excellent performance.

However, these are not guarantees that all users will be satisfied. T ratings work similarly.



The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

### **HAC for Newer Technologies**

This phone has been tested and rated for use with hearing aids for some of the wireless technologies that it uses. However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids.

It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise. Consult your service provider or the manufacturer of this phone for information on hearing aid compatibility. If you have questions about return or exchange policies, consult your service provider or phone retailer.

### **Restricting Children's Access to Your Mobile Device**

Your mobile device is not a toy. Do not allow children to play with it because they could hurt themselves and others, damage the mobile device, or make calls that increase your mobile device bill.

Keep the mobile device and all its parts and accessories out of the reach of small children.

## **FCC Notice and Cautions**

### **FCC Notice**

The mobile device may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the mobile device if such interference cannot be eliminated. Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association.

### **Cautions**

Any changes or modifications to your mobile device not expressly approved in this document could void your warranty for this equipment and void your authority to operate this equipment. Only use approved batteries, antennas, and chargers. The use of any unauthorized accessories may be dangerous and void the mobile device warranty if said accessories cause damage or a defect to the mobile device.

Although your mobile device is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending, or sitting on it.

## **Other Important Safety Information**

- Only qualified personnel should service the mobile device or install the mobile device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Ensure that any mobile devices or related equipment installed in your vehicle are securely mounted.
- Check regularly that all wireless mobile device equipment in your vehicle is mounted and operating properly.
- When using a headset in dry environments, static electricity can build up in the headset and cause a small quick static electrical shock. To minimize the risk of electrostatic discharge from the headset avoid using the headset in extremely dry environments or touch a grounded unpainted metal object to discharge static electricity before inserting the headset.
- Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the mobile device, its parts, or accessories.

- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including installed or portable wireless equipment near or in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch your mobile device off before boarding an aircraft. The use of wireless mobile devices in aircraft is illegal and may be dangerous to the aircraft's operation. Check with appropriate authorities before using any function of a mobile device while on an aircraft.
- Failure to observe these instructions may lead to the suspension or denial of cell phone services to the offender, or legal action, or both.
- While using your device, leave some lights on in the room and do not hold the screen too close to your eyes.
- Seizures or blackouts can occur when you are exposed to flashing lights while watching videos or playing games for extended periods. If you feel any discomfort, stop using the device immediately.
- Reduce risk of repetitive motion injuries. When you repetitively perform actions, such as pressing keys, drawing characters on a touch screen with your fingers, or playing games, you may experience occasional discomfort in your hands, neck, shoulders, or other parts of your body. When using your device for extended periods, hold the device with a relaxed grip, press the keys lightly, and take frequent breaks. If you continue to have discomfort during or after such use, stop use and see a physician.
- If your device has a camera flash or light, do not use the flash or light close to the eyes of people or pets. [122011]

## Section 10: Warranty Information

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### Standard Limited Warranty

#### What is covered and for how long?

SAMSUNG TELECOMMUNICATIONS AMERICA, LLC (“SAMSUNG”) warrants that SAMSUNG’s handsets and accessories (“Products”) are free from defects in material and workmanship under normal use and service for the period commencing upon the date of purchase by the first consumer purchaser and continuing for the following specified period of time after that date:

Phone	1 Year
Batteries	1 Year
Case/Pouch/Holster	90 Days
Other Phone Accessories	1 Year

#### What is not covered?

This Limited Warranty is conditioned upon proper use of the Product.

This Limited Warranty does not cover: (a) defects or damage resulting from accident, misuse, abnormal use, abnormal conditions, improper storage, exposure to liquid, moisture, dampness, sand or dirt, neglect, or unusual physical, electrical or electromechanical stress; (b) scratches, dents and cosmetic damage, unless caused by SAMSUNG; (c) defects or damage resulting from excessive force or use of a metallic object when pressing on a touch screen; (d) equipment that has the serial number or the enhancement data code removed, defaced, damaged, altered or made illegible; (e) ordinary wear and tear; (f) defects or damage resulting from the use of Product in conjunction or connection with accessories, products, or ancillary/peripheral equipment not furnished or approved by SAMSUNG; (g) defects or damage resulting from improper testing, operation, maintenance, installation, service, or adjustment not furnished or approved by SAMSUNG; (h) defects or damage resulting from external causes such as collision with an object, fire, flooding, dirt, windstorm, lightning, earthquake, exposure to weather conditions, theft, blown fuse, or improper use of any electrical source; (i) defects or damage resulting from cellular signal reception

or transmission, or viruses or other software problems introduced into the Product; or (j) Product used or purchased outside the United States. This Limited Warranty covers batteries only if battery capacity falls below 80% of rated capacity or the battery leaks, and this Limited Warranty does not cover any battery if (i) the battery has been charged by a battery charger not specified or approved by SAMSUNG for charging the battery; (ii) any of the seals on the battery are broken or show evidence of tampering; or (iii) the battery has been used in equipment other than the SAMSUNG phone for which it is specified.

#### **What are SAMSUNG's obligations?**

During the applicable warranty period, provided the Product is returned in accordance with the terms of this Limited Warranty, SAMSUNG will repair or replace the Product, at SAMSUNG's sole option, without charge. SAMSUNG may, at SAMSUNG's sole option, use rebuilt, reconditioned, or new parts or components when repairing any Product, or may replace the Product with a rebuilt, reconditioned or new Product.

Repaired/replaced cases, pouches and holsters will be warranted for a period of ninety (90) days. All other repaired/replaced Products will be warranted for a period equal to the

remainder of the original Limited Warranty on the original Product or for ninety (90) days, whichever is longer. All replaced Products, parts, components, boards and equipment shall become the property of SAMSUNG. Except to any extent expressly allowed by applicable law, transfer or assignment of this Limited Warranty is prohibited.

#### **What must you do to obtain warranty service?**

To obtain service under this Limited Warranty, you must return the Product to an authorized phone service facility in an adequate container for shipping, accompanied by the sales receipt or comparable proof of sale showing the original date of purchase, the serial number of the Product and the seller's name and address.

To obtain assistance on where to deliver the Product, please call SAMSUNG Customer Care at 1-888-987-4357. If SAMSUNG determines that any Product is not covered by this Limited Warranty, you must pay all parts, shipping, and labor charges for the repair or return of such Product.

You should keep a separate backup copy of any contents of the Product before delivering the Product to SAMSUNG for warranty service, as some or all of the contents may be deleted or reformatted during the course of warranty service.

### **What are the limits on SAMSUNG's liability?**

THIS LIMITED WARRANTY SETS OUT THE FULL EXTENT OF SAMSUNG'S RESPONSIBILITIES, AND THE EXCLUSIVE REMEDY REGARDING THE PRODUCTS.

ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. IN NO EVENT SHALL SAMSUNG BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT OR FOR, WITHOUT LIMITATION, COMMERCIAL LOSS OF ANY SORT; LOSS OF USE, TIME, DATA, REPUTATION, OPPORTUNITY, GOODWILL, PROFITS OR SAVINGS; INCONVENIENCE; INCIDENTAL, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES; OR DAMAGES ARISING FROM THE USE OR INABILITY TO USE THE PRODUCT. SOME STATES AND JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE DISCLAIMER OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND DISCLAIMERS MAY NOT APPLY TO YOU.

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If data stored on this device is deleted or reformatted using the standard methods, the data only appears to be removed on a superficial level, and it may be possible for someone to retrieve and reuse the data by means of special software.

To avoid unintended information leaks and other problems of this sort, it is recommended that the device be returned to Samsung's Customer Care Center for an Extended File System (EFS) Clear which will eliminate all user memory and return all settings to default settings. Please contact the **Samsung Customer Care Center** for details.

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**Important!** Please provide warranty information (proof of purchase) to Samsung's Customer Care Center in order to provide this service at no charge. If the warranty has expired on the device, charges may apply.

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Samsung Telecommunications America, LLC  
1301 E. Lookout Drive  
Richardson, Texas 75082

Phone: 1-800-SAMSUNG  
Phone: 1-888-987-HELP (4357)

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