

6. Read the information on the **Wake up S Voice** screen, then touch **Next**.
7. Read the information on the **Edit what you said** screen, then touch **Next**.
8. Read the information on the **Help** screen, then touch **Finish**.
9. At the S Voice screen, say “Hi Galaxy” to wake up S voice.
10. Speak into the phone and follow the on-screen instructions.

Samsung Apps

Samsung Apps allows you to easily download many different types of applications to your phone. You can download games, news, reference, social networking, navigation, and other applications.

1. From the **Apps** screen, touch  **Samsung Apps**.
2. Read the Disclaimer, Terms and conditions, and Privacy policy and touch **Accept** to continue.
3. Follow the on-screen instructions to use Samsung Apps.

Samsung Link

Samsung Link is a smart remote that allows you to use your phone to control your TV and other devices.

1. From the **Apps** screen, touch  **Samsung Link**.
2. Touch **Sign in** to sign in to Samsung Link.
3. Touch **Sign in** again and sign in to your Samsung account.
4. Follow the on-screen instructions.

Settings

Configure your phone to your preferences. (For more information, see “*Settings*” on page 139.)

- From the **Apps** screen, touch  **Settings**.

Story Album

Create an album with your story on one timeline.

- From the **Apps** screen, touch  **Story Album**.

Talk

Use Google Talk to chat with other Google Talk users. (For more information, see “*Google Talk*” on page 85.)

- From the **Apps** screen, touch  **Talk**.

TripAdvisor

TripAdvisor allows you to access traveler reviews and opinions on hotels, restaurants and more. You can also compare prices and check availability on hotels, flights, car rentals and more.

Note: This application requires a Samsung account sign in to access its features.

- From the **Apps** screen, touch  **TripAdvisor**.

Video

Video identifies and plays video files (3GP or MP4) stored on your phone or on an optional microSD Memory card.

1. From the **Apps** screen, touch  **Video**.
2. Select a video from those listed, if any. (For information on downloading videos from Samsung Hub, see “*Samsung Hub*” on page 122.)
3. Touch  **Menu** for additional options.

Voice Recorder

Record your voice or other sounds, and share recordings via Bluetooth, Messaging, or Gmail.

- From the **Apps** screen, touch  **Voice Recorder**.

Voice Search

Voice Search offers voice-activated Google searches. If you agree, Voice Search uses your location to improve search results and offer other services.

- From the **Apps** screen, touch  **Voice Search**.

VPN Client

VPN Client lets you define multiple Virtual Private Networks (VPNs) to your device and connect to them as needed by simply selecting a connection from the VPN Client list.

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

WatchON

Use the Samsung WatchON application to use your phone as a remote control for your TV, set top box, DVR, Blu-Ray/DVD, stereo or other device.

1. From the **Apps** screen, touch  **WatchON**.
2. Follow the prompts to setup WatchON.
(For more information, touch  **Menu** → **Help** → **Introduction to WatchON**.)

Configure your Device as a Remote

1. Touch  **Remote Control**
2. Touch **Set up now** at the prompt.
3. Select your TV's manufacturer name from the **Select your TV Brand** screen.

– or –

Touch the **Show other brands** or **I have a projector** button if you own a TV brand or projector other than those listed.

4. Aim your device at the TV and touch  **Power** to turn on your TV with the remote.
5. Touch **Yes** if the TV turned on.
– or –
Touch **No**, or **Retry** if the TV did not turn on.
6. Select your current channel control method:

If Connected Directly to a TV

- Select **My xxx TV**: select when a signal is directly connected to the tv.

If Connected through a Set Top Box

1. Select **Cable / Satellite / STB / PVR / DVR**.
2. Configure your set top box for IR communication with this device.
3. Touch **More Info...** to view a tutorial on configuring the set top box for IR controls.
4. Select the Satellite Box Brand from the list.

YouTube

Access your YouTube™ account, and view and upload YouTube videos, right from your phone.

- From the **Apps** screen, touch  **YouTube**.

Accessing Widgets

1. Press  **Home**, then Sweep your finger right or left to scroll to a particular Home screen panel.
2. Touch  **Apps**, then the **Widgets** tab. The **Widgets** screen appears in the display.
— or —
Touch and hold on the displayed **Home screen** panel until the Home screen menu pops-up, then touch **Add to Home screen → Apps and widgets**, then the **Widgets** tab. The **Widgets** screen appears in the display.
3. Sweep your finger right or left to scroll through the Widgets screens and find the desired widget.
4. To place a widget on the selected Home screen panel, touch and hold the widget's image or icon, then position the widget on the Home screen panel.
5. If needed, follow any prompts to configure the widget.

Widgets List

The following widgets are available for executing on your Home screen:

- **Active Apps Manager 2 x 1:** Shows the number of active apps. Touch to launch the Apps Manager **Active applications** screen.
- **Adapt Sound 1 x 1:** Touch to adapt your phone's sound to suit a headset or headphones.
- **Alarm 5 x 1:** Add, view, and manage alarms you set using this widget or using the Clock application.
- **Assistive Light 2 x 1:** Use your phone's flash as a flashlight.
- **Book 1 x 1:** Directly access one of your downloaded electronic books from **Play Books**.
- **Bookmark 1 x 1:** Directly access a selected Internet browser bookmark.
- **Bookmarks 3 x 2:** Directly access any of four selected Internet browser bookmarks.
- **Briefing 5 x 2:** View and directly access either of two events.
- **Calendar 2 x 3:** View your Calendar events scheduled for today.
- **Calendar (mini today) 5 x 4:** View and access your Calendar events scheduled for today.
- **Calendar (month) 5 x 5:** View and access your scheduled Calendar events, one month at a time.
- **Clock (digital) 5x 1:** View a digital clock-calendar.
- **Clock (digital) 3 x 1:** View a digital clock-calendar.
- **Contact 1 x 1:** Directly access a selected contact for calls or messaging.
- **Direct Dial 1 x 1:** Immediately call a selected contact.
- **Direct Message 1 x 1:** Immediately send a message to a selected contact.
- **Directions & Navigation 1 x 1:** Immediately obtain directions to a selected location.
- **Dropbox Folder 1 x 1:** Directly access one of your Dropbox folders.
- **Dual clock (digital) 2 x 2:** View digital clock-calendar displays for two selected locations.
- **Email 5 x 5:** View and directly access email messages in your Combined email box.
- **Flipboard 4 x 2:** View a small image of your Flipboard "magazine".
- **Gmail 3 x 3:** View and directly access your Gmail messages.

- **Gmail label 1 x 1:** Directly access Gmail messages with a selected Gmail label.
- **Google Now 5 x 4:** View and directly access the current version of your selected navigation, weather, and stock information.
- **Google Play Books 2 x 3:** Directly access your Google books.
- **Google Play Music 4 x 1:** Directly access and play a selected music playbook.
- **Google Search 5 x 1** (transparent background): Perform and manage Internet searches.
- **Google Search 4 x 1** (opaque background): Perform and manage Internet searches.
- **Messaging 5 x 4:** View and access your latest messages.
- **Music 5 x 1:** Play your music purchased and downloaded from Music Hub.
- **Music playlist 1 x 1:** Play a selected music playlist.
- **Picture frame 2 x 2:** Directly access your photos and images.
- **Play - My Library 5 x 5:** Access your Google content (ebooks, music, magazines, and videos).
- **Play Recommendations 5 x 2:** View recommendations from Google Play Store.
- **Play Store 2 x 2:** View recommendations from and access Google Play Store.
- **S Bookmarks 2 x 2:** View selected bookmarks and directly access the related web sites.
- **S Memo 2 x 2:** View and access a stored memo.
- **Settings Shortcut 1 x 1:** Directly access selected settings for your phone.
- **Software update 1 x 1:** Directly access your device software status information and access **Software update**.
- **Story Album 5 x 5:** View and access your stories.
- **Traffic 1 x 1:** Directly access traffic information for a selected destination.
- **Travel 3 x 3:** View and access travel destination recommendations from S Travel.
- **User manual 1 x 1:** .
- **Video 5 x 5:** Directly access and play one or more selected videos.
- **Weather 5 x 3:** View current and forecast temperature and weather conditions for a selected location.

- **Yahoo! Finance 4 x 3:** View current prices for selected stocks and/or commodities and directly access additional financial information.
- **Yahoo! News 4 x 2:** View news headlines and access full news articles.
- **YouTube 3 x 2:** Receive and view suggested videos. Directly access your YouTube account.

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Section 7: Connections

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 141.

Turning Wi-Fi On or Off

When you turn Wi-Fi service on, your phone automatically searches for available, in-range "hotspots" [also termed WAPs (Wireless Access Points)].

Turning Wi-Fi On

1. From the top of the Home screen, sweep your finger downward to display the Notifications screen.
2. At the top of the Notifications screen, touch  **Wi-Fi** to turn Wi-Fi On.

Turning Wi-Fi Off

1. From the top of the Home screen, sweep your finger downward to display Notifications.
2. At the top of the Notifications screen, touch  **Wi-Fi** to turn Wi-Fi Off.

Scanning and Connecting to a Wi-Fi Network

1. Turn Wi-Fi on (see “Turning Wi-Fi On” on page 127). Your phone scans for available hotspots and pops-up a list of any it finds.
2. To connect to a hotspot, touch it on the pop-up list.
 - 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, touch  **Menu** → **Settings** →  **Connections** → **Wi-Fi**. The **Wi-Fi** options screen appears. (For more information, refer to “Accessing Settings” on page 139.)
2. Touch **Wi-Fi**  to turn on Wi-Fi.
3. Touch **Add Wi-Fi network**, then enter the following values:
 - **Network SSID**: Enter the name of the WAP (Wireless Access Point).
 - **Security**: Select the type of security used by the WAP.
 - **Password**: If the WAP is secured, enter the password or key.

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, some printers support Wi-Fi Direct, and you could print from your phone via Wi-Fi Direct.

Establishing Wi-Fi Direct Connections

1. From the Home screen, touch  **Menu** → **Settings** →  **Connections** → **Wi-Fi** → **Wi-Fi Direct**.
The **Wi-Fi Direct** screen appears, and your phone scans for available Wi-Fi Direct devices and lists them under **Available devices**.
2. To connect to a single Wi-Fi Direct device, touch its name in the list.
3. To connect to multiple Wi-Fi Direct devices, touch **Multi-connect**, next touch **Select all** or individual devices, then touch **Done**.

Bluetooth

Note: For Hearing Aid Compatibility Information, see page 217.

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.

Configuring Bluetooth Settings

Configure your phone's Bluetooth settings. For more information, see *"Bluetooth settings"* on page 144.

Note: Bluetooth profiles are specifications for services supported by individual devices. For a list of profiles your phone supports, see *"Bluetooth profiles"* on page 143.

Turning Bluetooth On or Off

1. From the Home screen, sweep your finger from the top of the screen downward to display Notifications.
2. Touch  **Bluetooth** to turn Bluetooth On.
Touch  **Bluetooth** to turn Bluetooth Off.

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 connect with each other and exchange information without a passcode or PIN.

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

1. Activate the target device's discoverable mode.

2. On your phone, turn on Bluetooth (see “Turning Bluetooth On or Off” on page 129). A list of detected devices pops-up on your display.
3. From the list of detected devices, touch the target device, your phone attempts to automatically pair with the target device.

If automatic pairing fails, then follow the prompts to complete manual pairing:

- Enter a PIN for the target device and touch OK.

Tip: Some devices use a default passcode of 0000. Refer to the target device’s user manual for more information.

- When prompted to connect with the target device, touch **OK** to complete the connection, touch **Cancel** to retain the pairing only.

Connecting with a Bluetooth Device

1. From the Home screen, touch  **Menu** → **Settings** →  **Connections** → **Bluetooth**. The **Bluetooth** screen appears in the display.
2. Under **Available devices**, touch a previously paired device. The device connects with your phone.

VPN

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

Configuring VPN Settings

For information about configuring your phone’s VPN settings, see “VPN” on page 150.

Accessing a VPN

1. From the Home screen, touch  **Menu** → **Settings** →  **Connections**.
2. Under **Network connections**, touch **More networks** → **VPN**. The **VPN** screen appears, listing available VPN connections.
3. Touch a VPN and follow any prompts to access the network.

Personal Computer Connections

Connect your device to a personal computer to transfer data between your device and the computer. Use the USB data cable that comes with your device, or use the Kies via Wi-Fi connection 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 device to the computer with a USB data cable. Your device 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).
- **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 via Wi-Fi

Kies via Wi-Fi lets you wirelessly synchronize files on your device (in mass storage and on a memory card) with files on a Windows computer or Mac, provided they are both on the same Wi-Fi network. You can also view and share call logs, videos, photos, music, bookmarks, ringtones, and even send SMS messages from your computer.

Kies via Wi-Fi connects via Wi-Fi to the Kies application, that you can install on your computer.

For more information, visit: www.samsung.com/us/kies.

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/us/kies> (for Windows/Mac).

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.

Tethering

Use Tethering to share your phone's internet connection with a computer connected to your device using the USB data/charging cable, or using Bluetooth.

(For more information, refer to “Tethering” on page 149.)

1. From the Home screen, touch  **Menu** → **Settings** →  **Connections**.
2. Under **Network connections**, touch **More networks** → **Tethering and portable hotspot**. The **Tethering and portable hotspot** screen appears.
3. 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. When On, a check appears in the check box.
 - **Bluetooth tethering:** Connect your phone with the computer using Bluetooth. Consult the computer's documentation for more information about using your computer to make a Bluetooth connect. Touch **Bluetooth Tethering** to turn tethering On or Off. When On, a check appears in the check box.

Note: Using Tethering requires a subscription to your Wireless Provider's mobile data service.

Portable Wi-Fi Hotspot

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

Note: Portable Wi-Fi Hotspot requires a subscription to the applicable service to use the application.

Portable Wi-Fi Hotspot consumes battery power and uses data service. While the Portable Wi-Fi Hotspot is active, your phone's applications will use the Portable Wi-Fi Hotspot data feature allowance.

Configuring Portable Wi-Fi Hotspot Settings

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

Tip: By default, your device's mobile hotspot has security applied, and a password (your device's phone number) is required to connect. (For more information about configuring your mobile hotspot, see *"Portable Wi-Fi hotspot"* on page 147.)

Activating Portable Wi-Fi Hotspot

Activate your phone's Portable Wi-Fi Hotspot application to allow other devices to use your phone's internet connection.

1. From the Home screen, touch  **Menu** → **Settings** →  **Connections**.
2. Under **Network connections**, touch **More networks** → **Tethering and portable hotspot** → **Portable Wi-Fi Hotspot**.
3. Touch **Portable Wi-Fi Hotspot**  and follow the prompts to turn Portable Wi-Fi Hotspot ON.

Connecting a Device via Portable Wi-Fi Hotspot

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

1. Activate Portable Wi-Fi Hotspot on your phone. (For more information, see *"Activating Portable Wi-Fi Hotspot"* on page 133.)
2. Activate Wi-Fi on the other device, using that device's Wi-Fi control.
3. Scan for Wi-Fi hotspots, and select your phone from the list. (To find your phone's name, see *"Configuring Portable Wi-Fi Hotspot"* on page 148.)
4. At the prompt, enter your phone's Portable Wi-Fi Hotspot password.

By default, the password is your phone's telephone number. (For information on changing your phone's Portable Wi-Fi Hotspot password, see *"Configuring Portable Wi-Fi Hotspot"* on page 148.)

Beaming NFC

NFC (Near Field Communication) allows data exchange when you touch your device with another compatible device. This is used for applications such as Android Beam and S Beam.

1. From the Home screen, touch  **Menu** → **Settings** →  **Connections**.
2. Under **Connect and share**:
 - Touch the **NFC** slider  to turn NFC ON.
 - Touch the **NFC** slider  to turn NFC OFF.

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

Android Beam

When Android Beam is activated, you can beam application content to another NFC-capable device by holding the devices close together. You can beam browser pages, YouTube videos, contacts, and more.

Turning Android Beam On or Off

1. From the Home screen, touch  **Menu** → **Settings** →  **Connections**.
2. Under **Connect and share**, turn **NFC** ON. (For more information, see “NFC”.)
3. Touch the **NFC** option.
4. Touch the **Android Beam** slider  to turn Android Beam ON.

Touch the **Android Beam** slider  to turn Android Beam OFF.

Using Android Beam

1. Turn **Android Beam** ON. (See “Turning Android Beam On or Off”.)
2. Launch the desired feature or application or browse to the desired web page (See “Applications and Widgets” on page 86.)
3. Place your phone back-to-back with the device to receive your “beamed” content, then touch the screen on your phone. The receiving device prompts the user to accept your “beamed” content.
4. Once the user of the receiving device accepts your “beamed” content, it appears on the screen of that device.

S Beam

When S Beam is activated, you can beam files to another NFC-capable device by holding the devices close together. You can beam images and videos from your gallery, music files from your music player, and more.

Turning S Beam On or Off

1. From the Home screen, touch  **Menu** → **Settings** →  **Connections**.
2. Under **Connect and share**, turn **NFC** ON. (For more information, see “NFC”.)
3. Touch  **Back**.
4. Under **Connect and share**, touch **S Beam**  to turn S Beam ON, or touch **S Beam**  to turn S Beam OFF.

Using S Beam

1. Turn **S Beam** On. (See “Turning S Beam On or Off”.)
2. Launch  **Camera**,  **Music**, or  **Gallery** (See “Applications and Widgets” on page 86.) When using Gallery, you can select multiple files to S Beam.
3. Place your phone back-to-back with the device to receive your “beamed” content, then touch the screen on your phone. The receiving device prompts the user to accept your “beamed” content.
4. Once the user of the receiving device accepts your “beamed” content, it appears on the screen of that device.

Screen Mirroring

Screen Mirroring lets your phone share the contents of its display with other Digital Living Network Alliance (DLNA) certified devices, such as Smart televisions.

Note: To view more information about DLNA certified products visit <http://www.dlna.org/home>.

1. Connect your phone and another DLNA certified device to the same Wi-Fi network. (For more information, refer to “Wi-Fi” on page 127.)
2. From the Home screen, touch  **Menu** → **Settings** →  **Connections**.
3. Under **Connect and share**, touch **Screen Mirroring**. The **Screen Mirroring** screen appears with **Screen Mirroring** set to ON and begins scanning for available devices. All detected DLNA certified devices are listed under **Available devices**.
4. Touch the desired device to establish a connection. You can now view the contents of your phone's display on the connected device.

Nearby devices

Share files with nearby DLNA certified devices over Wi-Fi. (For information on configuring Nearby devices, For more information, refer to “Nearby devices” on page 152.)

Note: To use Nearby devices for sharing, you must have set up a connection with another Wi-Fi device that supports DLNA.

1. Connect your phone and another DLNA certified device to the same Wi-Fi network. (For more information, refer to “Wi-Fi” on page 127.)
2. From the Home screen, touch  **Menu** → **Settings** →  **Connections**.
3. Under **Connect and share**, touch **Nearby devices**. The **Nearby devices** screen appears.
4. Touch **File sharing** to turn file sharing via DLNA On or Off. When On, a check mark appears in the check box.

Memory Card

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

Installing and Removing a Memory Card

(For more information about installing and removing a memory card, see “*Installing a Memory Card*” on page 9.)

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

Formatting a Memory Card

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

1. From the Home screen, touch  **Menu** → **Settings** →  **More**. The **More** screen appears.
2. Under **Device manager**, touch **Storage**.
3. If needed, under **SD card**, touch **Mount SD card**.
4. After mounting the SD card, touch **Format SD card**, then follow the prompts to confirm the deletion of information from the card.

Section 8: Settings

Accessing Settings

- From the Home screen, touch  Menu → Settings.

– or –

From the Home screen, touch  Apps →



Settings.

– or –

Pull down the Notifications screen, then touch



Settings. (For more information, refer to “Notifications panel” on page 33.)

The **Settings** menu appears.

Note: This section does not include information about Call settings. (For Call settings information, see “Call Settings” on page 73.)

Settings Tabs

Your phone's Settings are divided into 4 main groups. When the Settings screen appears, the following 4 tabs are located at the top of the screen:



Connections: Wi-Fi, Bluetooth, Data usage, More networks, NFC, S Beam, Nearby devices, Screen Mirroring, and Kies via Wi-Fi.



My device: Lock screen, Display, Sound, Home screen mode, Call, Blocking mode, Sound, Display, Power saving mode, Accessory, Accessibility Date and time, Accessibility, Language and input, Motions and gestures, Smart screen, Air view, and Voice control.



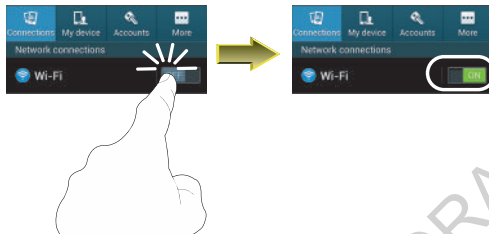
Accounts: My accounts [Add account (Samsung account, ChatON, Dropbox, Email, Google, LDAP, Microsoft Exchange, and Sync apps with Facebook)] and Backup options (Cloud and Backup and reset).



More: Location services, Security, Application manager, Battery, Storage, Date and time, and About device.

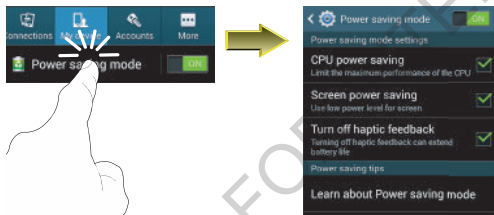
Using Setting Sliders

- To enable or disable a setting, touch the setting slider as shown.



Accessing Additional Options

- To access additional setting options, touch the setting label.



Connections

- From the **Settings** screen, touch  **Connections**. The **Connections** screen appears.

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 127.)

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.

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 the Notifications panel.

Turn Wi-Fi On:

- From the **Connections** screen and under **Network connections**, touch **Wi-Fi** .
- or —
- From the Home screen and others, touch and swipe the Status Bar downward, then touch  **Wi-Fi**.

Turn Wi-Fi Off:

- From the **Connections** screen and under **Network connections**, touch **Wi-Fi** .
- or —
- From the Home screen and others, touch and swipe the Status Bar downward, then touch  **Wi-Fi**.

Wi-Fi Settings

Configure and manage connections to Wi-Fi access points.

1. From the **Connections** screen and under **Network connections**, touch **Wi-Fi**. The **Wi-Fi** options screen appears.
2. Touch options to configure:
 - **Add Wi-Fi network**: Connect to a new Wi-Fi network (see *“Adding a Wi-Fi Network Manually”* on page 128).
 - **Scan**: Search for available Wi-Fi networks.
 - **Wi-Fi Direct**: Access Wi-Fi Direct settings (see *“Wi-Fi Direct”* on page 142.)
3. Touch  **Menu** to access the following additional options:
 - **Advanced**: View and configure your phone's Advanced Wi-Fi settings.
 - **WPS push button**: Record/send the signal from the Wi-Fi Protected Set-up push button on your Wi-Fi router.
 - **WPS PIN entry**: Record/send the Wi-Fi Protected Set-up Personal Identification Number for your Wi-Fi router.
 - **Help**: Provides on-line assistance to perform Wi-Fi interface tasks.

Advanced Wi-Fi settings

1. From the **Connections** screen and under **Network connections**, touch **Wi-Fi** →  **Menu** → **Advanced**.
2. Configure settings:
 - **Network notification:** When enabled, your phone notifies you of nearby Wi-Fi networks when you launch a high data-usage application.
 - **Passpoint:** When set to ON, your phone automatically connects to passpoint-enabled Wi-Fi hotspots.
 - **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.
 - **Check for Internet service:** Check whether Wi-Fi Internet service is available when connected to a Wi-Fi hotspot.
 - **MAC address:** (Not configurable) View your phone's MAC address, needed for connecting to some secured networks (only shows when Wi-Fi is active).
 - **IP address:** (Not configurable) View your phone's IP address (only shows when connected to a Wi-Fi network).

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, some printers support Wi-Fi Direct, and you could print from your phone via Wi-Fi Direct.

Turning Wi-Fi Direct On or Off

- From the **Connections** screen and under **Network connections**, touch **Wi-Fi** → **Wi-Fi Direct**.

The **Wi-Fi Direct** screen appears, and your phone scans for available Wi-Fi Direct devices and lists them under **Available devices**.

(For information on connecting your phone to other Wi-Fi Direct devices, see *“Establishing Wi-Fi Direct Connections”* on page 128.)

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 messages between devices, such as with an automotive hands-free device.

Turning Bluetooth On or Off

Turn Bluetooth On:

- From the **Connections** screen and under **Network connections**, touch **Bluetooth** .

Turn Bluetooth Off:

- From the **Connections** screen and under **Network connections**, touch **Bluetooth** .

Tip: You can also turn Bluetooth On or Off at the Notifications Panel. (For more information, refer to “*Quick Settings Menu*” on page 33.)

Bluetooth settings

Pair and connect 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 **Connections** screen and under **Network connections**, touch **Bluetooth**.
2. Touch a setting to configure Bluetooth:
 - Touch **Bluetooth**  to turn Bluetooth On, or touch **Bluetooth**  to turn Bluetooth Off.
 - Touch your phone's name to enable/disable its visibility to other devices' Bluetooth searches. Available when Bluetooth is On.
 - Touch **Scan** to search for visible Bluetooth devices. Touch a detected device to pair and connect with it (see *"Pairing with a Bluetooth Device"* on page 129).
 - Under **Paired devices**, touch a Bluetooth device option to connect with it or disconnect from it.
 - Touch  **Settings** to Rename the device, Unpair from it, or to enable or disable its Bluetooth Profiles.

- Touch  **Menu** to access the following options:
 - **Visibility timeout:** Select how long your phone will remain visible to other devices.
 - **Received files:** Lists files received from other devices over Bluetooth connections.
 - **Help:** Explains how to connect with and configure your phone's Bluetooth interface.

Data usage

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

Turning Mobile data On or Off

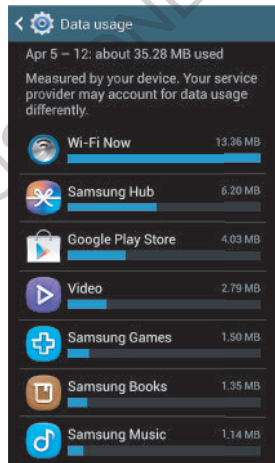
1. From the **Settings** screen, under **Wireless and network**, touch **Data usage**. The **Data usage** screen appears.
2. Touch **Mobile data** to enable/disable access to your Wireless Provider's mobile data network. When **Mobile data** is enabled, a check mark appears in the checkbox.

Tip: You can also enable or disable Mobile data by touching the **Mobile data** Quick set button on the top of the Notifications panel. (For more information, refer to “*Quick Settings Menu*” on page 33.)

Viewing data usage by app or process

1. From the **Settings** screen, under **Wireless and network**, touch **Data usage**. The **Data usage** screen appears.

2. Scroll down the page to see the processes or apps using mobile data service listed in order of their amount of usage.



3. Touch a process or app to see data usage for the process or app, and to configure specific settings (touch **View app settings**, when active).

4. To access mobile data usage settings, touch

 **Menu:**

- **Data roaming:** When enabled, includes data roaming usage in the graph.
- **Restrict background data:** When enabled, stops some apps and services unless your device is connected to a Wi-Fi network.
- **Auto sync data:** When enabled, reduces mobile data usage and conserves battery power, but you must manually sync your accounts and you will not receive app update notices.
- **Show Wi-Fi usage:** When enabled, two buttons appear at the top of the **Data usage** screen:
 - **Mobile:** Shows Mobile data usage.
 - **Wi-Fi:** Shows Wi-Fi data usage.
- **Mobile hotspots:** Lets you mark a detected Wi-Fi hotspot as a mobile hotspot (a check mark appears in the check box), restricting background apps from using this hotspot and warning you when you attempt to use it for large downloads.

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 [except for Emergency (E911) calls] or messages. You can, however, make Wi-Fi and Bluetooth connections.

While in airplane mode, you can use other features of your phone, such as playing music, watching videos, or using other applications.

1. From the **Connections** screen and under **Network connections**, touch **More networks**. The **Wireless and networks** screen appears.
2. Touch **Airplane mode** to enable or disable airplane mode.

A check mark in the check box indicates this option is enabled.

Mobile networks

Set options for network selection, data service, and roaming behavior.

1. From the **Wireless and networks** screen, touch **Mobile networks**. The **Mobile networks** screen appears.
2. Set these options:
 - **Mobile 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.
 - **Data roaming**: Enable or disable connection to data services when your device is roaming on another network. (For more information about roaming, see “Roaming” on page 18.)
 - **Network mode**: Configure roaming for CDMA, LTE, and EV-DO networks.
 - **LTE/CDMA**: Lets your phone automatically access LTE, CDMA, and/or EV-DO mobile networks when available.
 - **CDMA**: Restricts your phone to CDMA mobile networks.

- **System select**: Configure data roaming mode.
 - **Home only**: Restricts your phone to your Wireless Provider's network.
 - **Automatic**: Permits your phone to automatically roam to networks other than that provided by your Wireless Provider.

Portable Wi-Fi hotspot

Use Portable Wi-Fi 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 Portable Wi-Fi Hotspot with the Allowed device list.

(For more information about using your phone as a mobile hotspot, see “Portable Wi-Fi Hotspot” on page 133.)

Note: Using Portable Wi-Fi Hotspot requires a subscription to data service. For more information, contact your Wireless Provider.

Using your phone as a mobile hotspot consumes battery power and uses data service. While Portable Wi-Fi Hotspot is active, your phone's applications will use your Wireless Provider's data service. Roaming while using your phone as a mobile hotspot will incur extra data charges.

Turning Portable Wi-Fi Hotspot On or Off:

1. From the **Wireless and networks** screen, touch **Tethering and portable hotspot** → **Portable Wi-Fi hotspot**.
2. Touch **Portable Wi-Fi Hotspot**  and follow the prompts to turn Portable Wi-Fi Hotspot On, or touch **Portable Wi-Fi Hotspot**  to turn Portable Wi-Fi Hotspot Off.

Note: Using your phone as a mobile Wi-Fi hotspot consumes battery power and uses data service. While Portable Wi-Fi hotspot is active, your phone's applications will use your Wireless Provider's data service. Roaming while using your phone as a mobile Wi-Fi hotspot will incur extra data charges. (For additional information, contact your Wireless Provider.)

Configuring Portable Wi-Fi Hotspot

1. From the **Wireless and networks** screen, touch **Tethering and portable hotspot** → **Portable Wi-Fi hotspot**. The **Portable Wi-Fi hotspot** screen appears.
2. Touch **Configure** to access the following options:
 - **Network SSID:** View and change the name of your Mobile Hotspot.
 - **Hide my device:** When enabled, your Portable Wi-Fi Hotspot is not visible to other Wi-Fi devices during a scan. Other devices can still connect to your Portable Wi-Fi Hotspot, but will have to set up the connection manually with your Network SSID and Password.
 - **Security:** Choose the security level for your Portable Wi-Fi 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 Portable Wi-Fi Hotspot.

Allowed Devices List

Control whether devices connect to your Portable Wi-Fi 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 Wi-Fi hotspot name (SSID) and password.

Note: Using your phone as a mobile hotspot consumes battery power and uses data service. While Portable Wi-Fi Hotspot is active, your phone's applications will use your Wireless Provider's data service. Roaming while using your phone as a mobile hotspot will incur extra data charges.

1. From the **Wireless and networks** screen, touch **Tethering and portable hotspot** → **Portable Wi-Fi hotspot**. The **Portable Wi-Fi hotspot** screen appears.
 2. Touch **Allowed devices** → , then enter the other device's Device name and MAC address.
 3. Touch **OK** to add the device to the **Allowed devices** list.
-

Tip: For information about connecting to your Portable Wi-Fi Hotspot, see *"Connecting a Device via Portable Wi-Fi Hotspot"* on page 134.

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 132.)

1. From the **Wireless and networks** screen, touch **Tethering and portable hotspot**. The **Tethering and portable hotspot** screen appears.
 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. When On, a check appears in the check box.
 - **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. When On, a check appears in the check box.
-

Note: Using Tethering requires a subscription to your Wireless Provider's mobile data service.

VPN

Set up and manage Virtual Private Networks (VPNs).

(For more information about using VPNs, see “VPN” on page 130.)

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.

Adding a VPN

1. From the **Wireless and networks** screen, touch **VPN**.
2. Touch  **Add VPN** to set up a connection to a VPN, using the following settings:
 - **Name:** Enter a name for the VPN connection.
 - **Type:** Choose the type of VPN.
 - **Server address:** Enter the IP address of the VPN server.
 - **PPP encryption (MPPE):** Touch to enable or disable encryption.
 - **Show advanced options:** Touch to show more options. Available options depend on the type of VPN you are adding.

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 “Android Beam” on page 151 and “S Beam” on page 151.)

- From the **Connections** screen, and under **Connect and share**:
 - Touch the **NFC** slider  to turn NFC ON.
 - Touch the **NFC** slider  to turn NFC 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”, application 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 **Connections** screen, and under **Connect and share**, touch **NFC**. The **NFC** screen appears.

- If needed, touch the **NFC** slider  to turn NFC ON.

Note: NFC must be set to ON to use Android Beam.

- Touch the **Android Beam** slider  to turn Android Beam ON.
- Touch the **Android Beam** slider  to turn Android Beam 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.

S Beam works in the background. To share pictures or videos from Gallery, videos from Video player, or songs from Music player. Just bring the devices together (typically back-to-back), then touch the screen.

Turning S Beam On or Off

2. From the **Connections** screen, and under **Connect and share**:

- Touch the **NFC** slider  to turn NFC ON.

Note: NFC must be set to ON to use S Beam.

3. Under **Connect and share**:

- Touch the **S Beam** slider  to turn S Beam ON.
- Touch the **S Beam** slider  to turn S Beam OFF.

Nearby devices

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

Note: To use Nearby devices for sharing, you must have set up a connection with another Wi-Fi device that supports DLNA.

1. From the **Connections** screen, and under **Connect and share**, touch **Nearby devices**. The **Nearby devices** screen appears.
2. Touch **File sharing** to turn file sharing via DLNA ON or OFF. When On, a check mark appears in the check box. The **Nearby devices** pop-up appears.
3. Read the cautionary statement, then touch **OK**.
4. 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**.
 - **Allowed devices list:** Lists Wi-Fi devices allowed to access your phone.

- **Not-allowed devices list:** Lists Wi-Fi devices blocked from accessing your phone.
- **Download to:** Choose a location to save downloaded content, from USB storage or SD card.
- **Upload from other devices:** Choose how to handle incoming files from other devices, from **Always accept**, **Always ask**, or **Always reject**.

Screen Mirroring

This feature lets you use your phone's NFC (Near Field Communication) to share the contents of your device's screen with other, Digital Living Network Alliance (DLNA)-certified devices, such as Smart televisions.

Note: For more information about DLNA certified products visit <http://www.dlna.org/home>.

1. From the **Connections** screen, and under **Connect and share**, touch **Screen Mirroring**. The **Screen Mirroring** screen appears.
2. For information about using Screen Mirroring, touch  **Menu** → **Help**.

Kies via Wi-Fi

Kies via Wi-Fi allows you to sync your PC wirelessly with your device provided they are both on the same Wi-Fi network. You can view and share videos, photos, music, ringtones, and more.

1. From your PC, download the Samsung Kies application if you don't already have it. You can find it at samsung.com.
2. From your PC, launch the Samsung Kies application.
3. From your PC, connect to a Wi-Fi network.
4. From the **Connections** screen, and under **Connect and share**, touch **Kies via Wi-Fi**.
5. From your device, connect to the same Wi-Fi network that your PC is connected to if you have not already done so.

(For more information, refer to “*Scanning and Connecting to a Wi-Fi Network*” on page 128.)

My device

- From the **Settings** screen, touch  **My device**. The **My device** screen appears.

Lock screen

Choose settings for locking and unlocking your phone.

(For more information about using the lock and unlock features, see “*Securing Your Phone*” on page 19.)

- From the **My device** screen and under **Personalization**, touch **Lock screen**. Touch the following options to access additional options:

- **Screen security:**

- **Screen lock:** Touch one of the following options to select it as your custom screen lock/unlock method:

Swipe: When enabled, you unlock the phone by swiping your finger across the screen. This is the default screen lock, and offers no security.

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 saying your phone's wake-up command. 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 and voice 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.

- **Swipe options:**

Note: The Lock screen Swipe options are only available when the **Screen lock** option is set to **Swipe** or **Motion**.

- **Multiple widgets:** When enabled, activates some **Lock screen widgets** options that let you add 1 or more widgets to your Lock screen.
- **Lock screen widgets:** Touch this option and the **Lock screen widget options** screen appears with the following additional options available:

Favourite apps or Camera: Touch

Favourite apps or Camera  to enable the Favourite apps widget or Camera shortcut on the Lock screen.

Clock or personal message: Choose whether the Clock widget or a personal message text entry appears on the Lock screen.

Edit personal information: Customize the personal message text on the Lock screen.

- **Shortcuts:** When enabled, application shortcuts appear on the lock screen. Swipe an icon to launch the associated application. Touch **Shortcuts**  to enable lock screen shortcuts. Touch **Shortcuts**  to disable lock screen shortcuts. Touch **Shortcuts** to add/remove lock screen shortcuts.
- **Unlock effect:** Touch this option to enable/disable showing a Ripple or Light effect on the lock screen, provided the lock screen wallpaper is not “live”.
- **Help text:** Touch this option to enable/disable showing text explanations of lock screen features. When enabled, a check mark appears in the check box.
- **Wake up in lock screen:** Touch this option to enable/disable unlocking your phone by saying the S Voice wake-up command. When enabled, a check mark appears in the check box. (For more information about S Voice, see “*S Voice*” on page 119.)
- **Set wake-up command:** Touch this option to configure the S Voice wake-up command functions. (For more information about S Voice, see “*S Voice*” on page 119.)

Display

- From the **My device** screen and under **Personalization**, touch **Display**. The **Display** menu appears.

General

Wallpaper

Select wallpaper(s) for the Home and Lock screens.

1. From the **Display** menu, under **General**, touch **Wallpaper**.
2. Touch the screen for which you want to select wallpaper. (Options are: **Home screen**, **Lock screen**, and **Home and lock screens**.)
3. Touch the source of the wallpaper(s) you want to use. [Options are: **Gallery**, **Live wallpapers** (not for the Lock screen), **Travel wallpaper** (not for the Home screen), and **Wallpapers**.]
(For more information, refer to “*Wallpaper*” on page 41.)
4. Touch the desired image or wallpaper.

Notification panel

- From the **Display** menu, under **General**, touch **Notification panel**. The following options are available:
 - **Brightness adjustment**: When enabled, the Brightness setting appears on the Notification panel, below the Quick setting buttons.
 - **Set the quick setting buttons**: By touching and dragging available buttons in rows 2 through 4 into row 1, you can customize which Quick settings buttons appear on the Notification panel.

Multi window

- From the **Display** menu, under **General**, touch **Multi window** to enable or disable the Multi window tray. (For more information, refer to *“Using Multi window”* on page 28.)

Screen

Screen mode

Set or choose the screen color range and saturation, and display sharpness only for pre-loaded apps such as Camera, Gallery, Video Player, and so on.

1. From the **Display** menu, under **Screen**, touch **Screen mode**. The following options are available:
 - **Adapt display**: When enabled, automatically adjusts screen color range and saturation and display sharpness.
 - With **Adapt display** disabled, choose **Dynamic**, **Standard**, **Profession photo**, or **Movie**. The sample screen image changes to reflect your choice.
2. To save your setting, touch **Save**.

Brightness

Set the default screen brightness.

1. From the **Display** menu, under **Screen**, touch **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 **OK** to save the setting.

Auto-rotate screen

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

- From the **Display** menu, under **Screen**, touch **Auto-rotate screen** to turn the feature On or Off.

Tip: You can also set Auto rotate on the Notifications panel with the **Screen rotation** Quick setting. (For more information, refer to “*Quick Settings Menu*” on page 33.)

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 **Display** menu, under **Screen**, touch **Screen timeout**.
2. Touch a setting to select it.

Daydream

When set to ON, this option lets you control your phone's reactions to being placed in an optional desk or vehicle dock and/or sleeping.

1. From the **Display** menu, under **Screen**:
 - Touch the **Daydream** slider  to turn Daydream ON.
 - Touch the **Daydream** slider  to turn Daydream OFF. The **Enable daydream** pop-up appears.
2. Review the pop-up text. To enable Daydream with the current settings, touch **OK**.
3. Touch the **Daydream** option to select Daydream wallpaper from Colors, Flipboard, Photo Frame, or Photo Table.

For additional Flipboard, Photo Frame, or Photo Table settings, touch .

- Touch **Start now** to preview the effects of your Daydream settings.
- Touch **Enable daydream**, then select **While docked**, **While charging**, or **All**.

Font

Font style

Set the font for screen displays.

1. From the **Display** menu, under **Font**, touch **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 **Display** menu, under **Font**, touch **Font size**.
2. Select a font size (**Tiny**, **Small**, **Normal**, **Large**, or **Huge**).

Increase legibility

1. From the **Display** menu, under **Font**, touch **Increase legibility**.

More settings

- From the **Display** menu, under **More settings**, the following options are available:
 - **Touch key light duration**: Select the length of time keys light when you touch them (1.5 seconds, 6 seconds, Always off, or Always on).
 - **Show battery percentage**: When enabled, the battery's charge level displays in the Status bar next to the Battery icon.
 - **Edit after screen capture**: When enabled, after you capture a screen displayed on your phone, Picture editor launches with the screenshot preloaded for you to edit it.

Sound

- From the **My device** screen and under **Personalization**, touch **Sound**. The **Sound** menu appears.

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 Up or Down.

1. From the **Sound** menu, touch **Volume**. The **Volume** menu pops-up.
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 **OK** to save your settings.

Vibration intensity

Set the level for vibration to accompany ringtones, notifications, and display touches (Haptic feedback).

1. From the **Sound** menu, touch **Vibration intensity**. The **Vibration intensity** menu pops-up.
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. (For more information, refer to “*Haptic feedback*” on page 161.)
3. Touch **OK** to save your settings.

Ringtones

Choose a ringtone for incoming calls.

1. From the **Sound** menu, under **Ringtones and notifications**, touch **Ringtones**. The **Ringtones** menu pops-up.
2. Touch a ringtone to select it. When you touch a ringtone, a sample plays, unless you have a Silent mode enabled.

– or –

To add a sound/music file, and set it as the Ringtone, touch **Add**, then:

- Select the source of the sound/music file (**Choose music track**, **Dropbox**, or **Sound picker**).
- Choose to use the selected source **Always** or **Just once**.
- Select the desired file.

3. Touch **OK** to save your selection.

Tip: You can also set songs as ringtones for all calls, or for a selected contact. (For more information, refer to “*Music*” on page 112.)

Vibrations

Choose a vibration pattern to use when vibration is enabled.

1. From the **Sound** menu, under **Ringtones and notifications**, touch **Vibrations**. The **Vibrations** menu pops-up.
2. Touch a vibration pattern to select it. When you touch a pattern, a sample plays.

– or –

To create your own pattern, touch **Create**, then:

- Touch **Tap to create** in the pattern, then touch **Stop**.
- Touch **Save** to save your pattern.

3. Touch **OK** to save your selection.

Notifications

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

1. From the **Sound** menu, under **Ringtones and notifications**, touch **Notifications**. The **Notifications** menu pops-up.
2. Touch a sound to select it. When you touch a sound, a sample plays.
3. Touch **OK** to save your selection.

Vibrate when ringing

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

- From the **Sound** menu, under **Ringtones and notifications**, touch **Vibrate when ringing** to enable or disable the feature.

When **Vibrate when ringing** is enabled, a check mark appears in the check box.

Dialing keypad tone

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

- From the **Sound** menu, under **System**, touch **Dialing keypad tones** to enable or disable key sounds.

When **Dialing keypad tones** is enabled, a check mark appears in the check box.

Touch sounds

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

- From the **Sound** menu, under **System**, touch **Touch sounds** to enable or disable touch sounds.

When **Touch sounds** is enabled, a check mark appears in the check box.

Screen lock sound

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

- From the **Sound** menu, under **System**, touch **Screen lock sound** to enable or disable the Screen lock sound.

When **Screen lock sound** is enabled, a check mark appears in the check box.

Haptic feedback

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

- From the **Sound** menu, under **System**, touch **Haptic feedback** to turn touch vibrations 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).

Caution! When you are endangered by intruders, you should disable Emergency tone before placing an Emergency Call.

1. From the **Sound** menu, under **System**, touch **Emergency tone**.
2. To disable the Emergency tone, touch **Off**.
3. To enable the Emergency tone, touch **Alert** or **Vibrate**.

Adapt sound

You can adapt your phone's sound output to headphones and headsets to best suite you.

1. From the **Sound** menu, under **More settings**, touch **Adapt sound**.
2. Follow the instructions and prompts to adapt your phone's sound output to headsets and headphones.

Home screen mode

Select the Home screen layout that best suits your needs.

1. From the **My device** screen and under **Personalization**, touch **Home screen mode**. The **Home screen mode** screen appears.
2. Select the desired Home screen mode:
 - **Standard mode:** A conventional layout for apps and widgets on the Home screen panels.
 - **Easy mode:** A simplified apps and widgets layout for first time smartphone users.
3. To save your setting, touch **Apply**.

Call

Note: This section does not include information about Call settings. (For Call settings information, see “*Call Settings*” on page 73.)

Blocking mode

When enabled, Blocking mode lets you select which notifications you receive.

1. From the **My device** screen and under **Personalization**, touch **Blocking mode**  to turn this feature ON.

2. Touch the **Blocking mode** option to access the following additional options:

- **Features:**

- **Turn off incoming calls:** When enabled, blocks incoming calls from everyone except **Allowed contacts**.
- **Turn off notifications:** When enabled, blocks notifications from playing an alert tone.
- **Turn off alarm and timer:** When enabled, blocks notifications from Clock and Calendar alarms, and from timers.

- **Set time:**

- **Always:** When enabled, blocking mode stays active until you turn it off.
- **From:** With **Always** disabled, select the time when Blocking mode will come on.
- **To:** With **Always** disabled, select the time when Blocking mode will go off.

- **Allowed contacts:**

- **Allowed contacts:** Select contacts from whom your phone is to accept incoming calls when Blocking mode is ON.
[Options are: None, All contacts, Favorites, Custom (selecting this option enables **Allowed contact list**).]
- **Allowed contact list:** Add and remove contacts from whom your phone accepts calls when Blocking mode is on.

3. Select the desired option to enable/disable it.

Safety assistance

Power saving mode

Configure Power saving settings to conserve battery power.

1. From the **My device** screen and under **Personalization**, touch **Power saving mode**. The **Power saving mode** screen appears.
2. Touch **Power saving mode** to enable or disable the option:
 - Touch **Power saving mode**  to turn Power saving ON.
 - Touch **Power saving mode**  to turn Power saving OFF.

Note: **Power saving mode** must be set to ON () to configure the **Power saving mode settings**.

3. Touch the following **Power saving mode settings** to enable or disable them. (When an option is enabled, a check mark appears in its check box.):
- **CPU power saving:** When enabled, the phone's maximum performance is limited. This does not affect normal usage, such as browsing and video playback.
 - **Screen power saving:** When enabled, the screen uses reduced frame refresh rate and lower brightness.
 - **Turn off haptic feedback:** When enabled, no vibration plays when you touch the screen.
4. Under **Power saving tips**, touch **Learn about power saving mode** to read information about Power saving options.

Accessory

Configure your phone's behavior when you connect it to optional accessories (not included). (For more information, please visit [Samsung Galaxy S® 4 U.S. Cellular](#) or [Explore Galaxy S4 Smartphone. Features & Accessories.](#))

- From the **My device** screen and under **Personalization**, touch **Accessory**. The **Accessory** screen appears.

Dock

Configure your phone's behavior when it is connected to an optional Smart Dock (not included) or Desktop Doc (not included).

- From the **Accessory** screen, under **Dock**, touch the check box next to each of the following options to enable it: (When enabled, a check mark appears in the check box.)
 - **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.

S View Cover

Configure your phone to react to the optional S-View Flip Cover (not included).

- From the **Accessory** screen, under **S View Cover**, the following option is available:
 - **Automatic unlock:** When enabled, you can awaken and unlock your phone's screen by flipping the (optional) S-View Flip Cover open.

Tip: For the Automatic unlock function to awaken and unlock your phone's screen, the **Screen lock** option must be set to **None**. (See *"Lock screen"* on page 153.)

HDMI

Configure your phone's behavior when you connect it to an HD television or an amplifier using an optional Smart Dock (not included).

- From the **Accessory** screen, under **HDMI**, the following option is available:
 - **Audio output:** Select the quality of sound to be produced (Stereo or Surround).

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.

- From the **My device** screen, under **Personalization**, touch **Accessibility**. To enable/disable each of the following options, touch the check box next to it: (When enabled, a check mark appears in the check box.)
 - **Auto-rotate screen:** The screen's orientation automatically changes when you rotate the phone.
You can also set Auto rotate on the Notifications panel with the **Screen rotation** Quick setting.
 - **Screen timeout:** Set the length of delay between the last key press or screen touch and the automatic screen timeout (dim and lock).
 - **Speak passwords:** When enabled, your phone reads out characters you enter into password fields.

Note: To activate **Speak passwords**, **TalkBack** must be set to ON and **Explore by touch** must be enabled. (For more information, refer to *"Services"* on page 168.)

- **Answering/ending calls:** Touch this option to access the following call answering and ending settings:
 - **The home key answers calls:** When enabled, you can answer calls by pressing  **Home**.
 - **Answers calls by tapping:** When enabled, you can answer calls by touching the Accept call button on the Incoming Call screen.
 - **Voice control:** When enabled, you can use your voice to answer calls.
 - **The power key ends calls:** Lets you can end voice calls by pressing the  **Power/Lock** key.
- **Show shortcuts:** Adds an **Accessibility settings** option to the **Device options** menu (appears when you press and hold the  **Power/Lock** key. This provides quick access to the **Accessibility** settings, to make changes as you use the phone.
- **Manage accessibility:** Save and update your accessibility settings, or share them with another device.
 - **Export:** Save your accessibility settings in a file.
 - **Update:** Update your accessibility settings by importing the saved file.
 - **Share via:** Share your accessibility settings using Bluetooth, Dropbox, Email, Gmail, or Wi-Fi Direct.
 - **Android Beam:** Send your accessibility settings to another device using Android Beam and NFC.

Services

Enable or disable accessibility services.

TalkBack

When turned ON in the **TalkBack** screen, recites menu options, application titles, contacts, and other items when scrolling and making selections, according to the **Settings** values you select.

Note: **TalkBack** must be set to ON () and the **Explore by touch** **TalkBack** setting must be enabled, to activate the **Speak passwords** setting. (For more information, refer to “*Accessibility*” on page 166.)

1. From the **Accessibility** screen, under **Services**, touch **TalkBack**. The **TalkBack** screen appears.
2. Touch **TalkBack**  to turn TalkBack ON.
– or –
Touch **TalkBack**  to turn TalkBack OFF.

3. For more options, touch **Settings**. The **TalkBack Settings** screen appears.

Use TalkBack settings to customize when and how your phone speaks, enable/disable Vibration and/or Sound feedback, enable/disable Touch exploration and/or Single-tap selection, or choose values for Miscellaneous Developer settings.

(For more information about Developer settings, For more information, refer to “*Additional information*” on page 197.)

Vision

- From the **Accessibility** screen, under **Vision**, touch the check box or slider next to each of the following options to enable it or turn it ON: (When enabled, a check mark appears in the check box.)
 - **Font size:** Set the font size for screen displays (Tiny, Small, Normal, Large, Huge).
 - **Magnification gestures:** Touch **Magnification gestures**  to turn ON tripple-tap to zoom, tripple-tap and hold to zoom temporarily, pan, and adjust zoom level gestures.
 - **Negative colors:** Reverses the colors on the screen.
 - **Color adjustment:**  to turn ON and adjust screen colors for better readability.
 - **Accessibility shortcut:** Touch **Accessibility shortcut**  to turn ON quick access to the **Accessibility** settings, to make changes as you use the phone, by pressing and holding the  **Power/Lock** key.
 - **Text-to-speech options:** Select Preferred TTS engine, Speech rate, and Driving mode.
 - **Enhance web accessibility:** Does not allow / Allows apps to install scripts from Google that make their Web content more accessible.

Hearing

- From the **Accessibility** screen, under **Hearing**, touch the check box next to each of the following options to enable it: (When enabled, a check mark appears in the check box.)
 - **Sound balance:** Lets you adjust media player sound balance when you are using a stereo headset or stereo headphones.
 - **Mono audio:** Delivers monophonic sound to support listening with a wired or Bluetooth headset with one earphone.
 - **Turn off all sounds:** Disables all sounds, including the voice portion of calls.
 - **Flash notification:** allows you to set your camera light to blink whenever you receive a notification.

Mobility

- From the **Accessibility** screen, under **Mobility**, touch the following options:
 - **Assistant menu:** Touch **Assistant menu**  to turn ON options to change the Dominant hand setting and to Edit menu buttons.
 - **Tap and hold delay:** Select the length of time the phone considers a screen touch before interpreting a touch as touch-and-hold (Short, Medium, Long).

Recognition

- From the **Accessibility** screen, under **Recognition**, touch the following option:
 - **Interaction control:** Touch **Interaction control**  to let you enable/disable S motions and/or screen timeout, block touch interaction on screen areas while in an application, disable Auto-rotate and hardkey functions.
To launch **Interaction control**, press  **Home** and the **Volume down** key at the same time.

One-handed operation

- From the **My device** screen and under **Input and control**, touch **One-handed operation**. The **One-handed operation** screen appears.

The following options are available:

- Keypad and in-call buttons:
- Calculator:
- Unlock pattern:
- Learn about on-handed operation:

Language and input

- From the **My device** screen and under **Input and control**, touch **Language and input**. The **Language and input** screen appears.

Language

Select the language used in your phone's screens.

- From the **Language and input** screen, touch **Language** to select the language used in your phone's screens.

Keyboards and input methods

Configure text entry options to your preferences.

- From the **Language and input** screen, under **Keyboards and input methods**, touch the check box next to each of the following options to enable it. (When enabled, a check mark appears in the check box.):
 - **Default**: Select the default method for manually entering text: Samsung keyboard or Swype.

- **Google voice typing**: Lets you vocally dictate the text entered into a field. Touch  beside Google voice typing to configure the following options:

- **Choose 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 (####).
- **Download offline speech recognition**: Downloads language-specific Google voice typing software that lets you use Google voice typing while your phone is offline.

- **Samsung keyboard**: Touch  beside Samsung keypad to configure the following options.

Note: This option cannot be disabled.

- **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 languages:** 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:** When enabled, T9 suggests words matching your text entries and optionally, complete common words automatically. Touch **Predictive text**  to enable T9 predictive text, touch **Predictive text**  to disable T9 predictive text. Touch **Predictive text** to configure the following options:

Personalized data: When enabled, Predictive text uses personal language data you have entered.

Learn from Facebook: Log in to let your device learn from your Facebook entries.

Learn from Gmail: Log in to let your device learn from your Gmail messages.

Learn from Twitter: Log in to let your device learn from your “tweets”.

Learn from Messaging: Update to let your device learn from your message text entries.

Learn from Contacts: Update to let your device learn from your Contacts style.

Clear remote data: Remove all the personal language data you have entered.

Clear personal data: Remove all personalized data you have entered.

- **SwiftKey Flow:** 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.
- **Cursor control:** When enabled, you can move the cursor by sliding your finger across the keyboard.
- **Handwriting:** When in Handwriting mode, Samsung keyboard recognizes on-screen tracing of words. Touch **Handwriting** to configure the following options:
 - Recognition type:** Select Stroke recognition or Complete recognition.
 - Recognition time:** Select 100 ms, 300 ms, 500 ms, 1000 ms, or 2000 ms.
 - Pen thickness:** Select 1 pixel, 3 pixels, 5 pixels, 7 pixels, or 9 pixels.
 - Pen color:** Select Black, Red, Blue, Green, or Brown.
 - About:** Lists the Vision Objects Handwriting widget release version.

— **Advanced:**

Auto capitalization: When enabled, T9 automatically capitalizes words in your text based on common usage, such as at the beginning of sentences.

Auto spacing: When enabled, Automatically inserts spaces between words.

Auto-punctuate: When enabled, a period and space are automatically entered to end a sentence, when you touch 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.

— **Help:** View help for using T9 predictive text.

— **Reset settings:** Touch to reset Samsung keyboard settings to the defaults, except for My word list and the Auto substitution list.

• **Swype:** Touch  beside Swype to configure the following options.

— **How to Swype:** Learn Swype through quick, easy-to-use steps.

— **Gestures:** Learn about the gestures you can use to simplify accessing Swype features.

— **Preferences:**

Vibrate on keypress: When enabled, the phone vibrates on text entry.

Sound on keypress: When enabled, plays sounds as you enter text.

Show helpful tips: When enabled, displays a flashing indicator for quick help as you enter text.

Auto-spacing: When enabled, inserts spaces automatically when you pause entering text.

Auto-capitalization: When enabled, automatically capitalizes the first letter of the first word in a sentence.

Show complete Trace: Choose whether to display the complete Swype path.

Pop-up on keypress: Characters pop-up when you type them.

Next word prediction: When enabled, suggests possible matching words as you enter text.

Reset Swype's dictionary: Delete all words you've added.

Version: View the current Swype software version.

— **Language Options:**

English: Change current language.

Living language: When enabled, automatically updates Swype with popular new words.

Download languages: Select and download languages besides US English.

Active: Enable or disable installed languages.

— **Swype Connect:**

Register now: Register your Swype Backup & Sync account.

Backup & Sync: When enabled, your device automatically downloads popular, new words based on language and location; backs up your Swype dictionary, and synchronizes your Swype dictionary across multiple devices.

Contribute usage data: When enabled, Nuance collects usage data to provide better word predictions.

Cellular data: When enabled, Swype features can use your phone's cellular network connection to download updates, languages, and so on.

— **Personalization:**

Edit Dictionary: Add and/or remove words in your personal dictionary.

Facebook: Sign in to add contact names to your personal dictionary.

Twitter: Sign in to add user names and new words from your public twitter feed to your personal dictionary.

Gmail: Sign in to add recipient names to your personal dictionary.

— **Updates:** Check for updates and download them to your device.

Speech

- From the **Language and input** screen, under **Speech**, the following options are available:
 - **Voice recognizer:** Choose your preferred voice recognizer (Samsung powered by Vlingo or Google).
 - **Voice search:** Configure how **Voice search** reacts to your speech.
 - **Language:** Choose a language for voice searching.
 - **Speech output:** Choose whether Speech is Always available or available with Hands-free only.
 - **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 (#####).
 - **Hotword detection:** When enabled, say “Google” to launch voice search.
 - **Download offline speech recognition:** Enables voice input while off-line.
 - **Personalized recognition:** Train **Voice search** to more accurately recognize your voice.

- **Google Account dashboard:** Manage data collected under your Google account.
- **Bluetooth headset:** Records audio through a Bluetooth headset, when available.
- **Text-to-speech options:** Provides audible readout of text, for example, the contents of text messages, and the Caller ID for incoming calls.
 - **Preferred TTS engine:** Select **Samsung text-to-speech engine** or **Google Text-to-speech Engine**.
 - **General:**
 - Speech rate:** Choose a rate at which text readouts are spoken.
 - Listen to an example:** Play a sample of speech synthesis.

Mouse/trackpad

Customize the response of your screen swipes.

- From the **Language and input** screen, under **Mouse/trackpad**, touch **Pointer speed**, then touch and drag along the scale to set the pointer speed.

Motions and gestures

Motion lets you control a number of your phone's functions by moving your hand or finger across the screen in a particular pattern or by moving the phone itself in a particular way.

Note: For more information about using Motion, see “*Motions and gestures*” on page 25.

1. From the **My device** screen and under **Input and control**, touch **Motions and gestures**.
2. Touch **Motion**  to enable your phone's ability to recognize active gestures.
Touch **Motion**  to disable your phone's ability to recognize active gestures.

3. Touch the **Motion** option. The **Motion** screen appears.
The following options are available:

- **Direct call:** When set to ON, you can lift the phone to your ear while viewing a contact to dial the contact's phone number.
- **Smart alert:** When set to ON, the phone will automatically notify you to missed calls and alerts that occurred while the phone was stationary.
- **Zoom:** When set to ON, tilting the phone while in Gallery or Internet causes the screen to zoom in or out.
- **Move an icon:**
- **Browse an image:** When set to ON, moving the phone in a panning motion while viewing an image moves focus around in the image.
- **Mute/pause:** When set to ON, covering the screen with your hand pauses media while playing or mutes sounds playing on your phone.

4. Touch **Palm motion**  to enable your phone's ability to recognize gestures made with your palm.
Touch **Palm motion**  to disable your phone's ability to recognize gestures made with your palm.
5. Touch the **Palm motion** option. The **Palm motion** screen appears. The following options are available:
- **Capture screen:** When enabled, swiping your hand left or right across the display captures an image of the current screen.
 - **Mute/pause:** When enabled, covering the screen with your hand pauses media while playing or mutes sounds playing on your phone.
6. Touch **Gyroscope calibration** to adjust your phone's motion sensors to more accurately respond to your hand motions.

Smart screen

- From the **Display** menu, under **Features**, touch **Smart screen**. The following options are available:
 - **Smart stay:** When enabled (default setting), this feature prevents screen timeout when you are using the phone.

Example: The phone uses the front camera to identify your eyes when you are reading a long message perhaps, and keeps the screen bright though you don't touch the screen for a number of minutes.

- **Smart rotation:** When enabled, this feature adjusts screen images to match your angle of sight.

Air view

This feature lets you preview selected contents or information in pop-up windows by holding your finger above the screen.

You can scroll through screen panels or lists by moving your finger to an edge (top/bottom/left/right) of the screen.

1. From the **My device** screen and under **Input and control**, touch the following **Air view** options:

2. Touch **Air view**  to enable your phone's ability to recognize your finger hovering close to the screen.

Touch **Air view**  to disable your phone's ability to recognize your finger hovering close to the screen.

3. Touch the **Air view** option. The **Air view** screen appears. The following options are available (To try one of these options, touch it and then touch **Try it.**):

- **Information preview:** When set to ON, you can preview extended text or enlarged images.
- **Progress preview:** When set to ON, you can preview a video scene or show elapsed time.

- **Speed dial preview:** When set to ON, you can preview Contact names assigned to Speed dial numbers by hovering over the Phone keypad keys.

- **Webpage magnifier:** When set to ON, you can view a portion of a web page magnified.

4. Touch **Sound and haptic feedback** to enable/disable sound playback and haptic vibrations when you hover your finger over Air view items.

Voice control

Enable use of voice commands to control selected functions of, or applications on, your phone.

1. From the **My device** screen and under **Input and control**, touch the following **Voice control** options:
2. Touch **Voice control**  to enable you to use voice commands to control selected functions of, or applications on, your phone.
3. Touch **Voice control**  to disable you from using voice commands to control selected functions of, or applications on, your phone.
4. Touch the **Voice control** option. The **Voice control** screen appears. The following options are available:
 - **Incoming calls**: When enabled, you can answer or reject calls by saying “Answer” and “Reject”. Your phone will answer the calls in Speakerphone mode.
 - **Alarm**: When enabled, you can stop an alarm or set it to snooze by saying “Stop” and “Snooze”.
 - **Camera**: When enabled, you can take pictures by saying “Smile”, “Cheese”, “Capture” and “Shoot”.

- **Music**: When enabled, you can control the Music Player by saying “Next”, “Previous”, “Pause”, “Play”, “Volume Up”, and “Volume Down”.

Accounts

Set up and manage accounts, including your Samsung, Email, Google, and social networking accounts.

- From the **Settings** screen, touch  **Accounts**. The **Accounts** screen appears.

Samsung account

1. From the **Accounts** screen, under **My accounts**, touch **Add account** → **Samsung account**. The **Samsung account** screen appears.
2. Under **General settings**, touch **Account settings**. The following options are available:
 - **Account information:**
 - **Profile** (password protected): Change password and view Email address, Date of birth, First name, Last name, Name prefix, Zip code, and Receive newsletter status for your account.
 - **Terms and conditions:** Terms and conditions, Special terms, and Privacy policy information.

- **Help:** Find your email address or password, Contact us with a text message, or review Customer support information [My questions, FAQ (Frequently Asked Questions), or Contact us], or Samsung account software and services Information (About, About Samsung services, and Terms and conditions).

- **Storage usage:** Review Total storage used and touch Personal data management options to free up used storage.
- **Backup:**
 - **Auto backup:** When set to On for at least an hour and connected to a Wi-Fi network and with the screen off and the device charging, your data is backed up automatically.
 - **Backup options:** Select the data to be backed up [Logs, Messages (SMS), Messages (MMS), and/or Wallpaper]. These options also show when your data was Last backed up.
 - **Back up now:** Immediately backup your selected data.
- **Restore:** Immediately restore your backed up data to your device.

ChatON

1. From the **Accounts** screen, under **My accounts**, touch **Add account → ChatON**. The **ChatON** screen appears.
2. Follow the prompts to set up a ChatON account or a link to an existing account.

Dropbox

1. From the **Accounts** screen, under **My accounts**, touch **Add account → Dropbox**. The **Welcome to Dropbox!** screen appears.
2. Follow the prompts to set up a Dropbox account or a link to an existing account.

Email

1. From the **Accounts** screen, under **My accounts**, touch **Email**. The **Email** screen appears.
2. Under **Common settings**, touch **Settings**. The **Settings** screen appears.
3. Touch **General settings**. The following options are available:
 - **General settings:**
 - **Auto-advance:** Select which screen (Next message, Previous message, Message list) appears after you delete a message.
 - **Message preview line:** Number of message lines (None, 1 line, 2 lines, 3 lines) that appear in the folder message list.
 - **Title line in list:** Select which message header line (Subject, Sender) appears as the message title in the folder message list.
 - **Confirm deletions:** When enabled, you are prompted to confirm message deletions.
 - **Quick responses:** Edit pre-composed text you frequently include in your messages.
 - **Spam addresses:** Edit list of senders and domains reported as spam sources.

– **Priority sender settings:**

Priority senders: List those senders whose messages receive priority in your message list.

Set as the default folder: When enabled, the priority sender inbox appears when you touch  **Email**.

Email notifications: When enabled, an icon and the Email title appear in the status bar for new messages.

Select ringtone: Choose the ringtone that plays when you receive new messages.

Vibrate: When enabled, your phone vibrates when you receive new messages.

– **Rules for filtering:** Set email filters and manage filtered email in the Combined view.

– **Delay email sending:**

Delay email sending: When enabled, delays sending your emails for your selected delay interval so that you can cancel them.

Set length of delay: Choose 3 seconds (default), 5 seconds, 10 seconds, 20 seconds, or 30 seconds.

– **Default image size:** Choose the default size for images attached to email messages [Original, Large (70%), Medium (30%), Small (10%), or Always ask (default)].

4. Under **Added accounts**, touch the desired account. The following options are available:

• **Notification settings**

- **Email notifications:** Enable or disable display of a new email icon in the Annunciator line when new mail arrives.
- **Select ringtone:** Assign a ringtone for new email notifications.
- **Vibrate:** Enable or disable vibration with new email notifications.

• **Sync settings:**

- **Sync Email:** When enabled, the contents of your phone's email folder is synchronized with your account.
- **Sync schedule:** Peak/Off-peak schedule control.
- **Size to retrieve emails:** Select the amount of new incoming message contents to include in your message list.

• **Common settings:**

- **Signature:** When On, adds pre-composed signature text to send messages. Touch to edit the signature text that appears at the end of email messages you send.
- **Default account:** When active, sends email from this account by default.
- **More settings:**
 - Account name:** Enter a name to identify the account.

Your name: Enter a name to identify you to email recipients.

Always Cc/Bcc myself: Adds your email address to None of send email messages or to Cc or Bcc field of send email messages.

Forward with attachments: Enables including copies of any attached files when forwarding a copy of an email message.

Show images: When enabled, images included in incoming messages are automatically downloaded and displayed.

Number of emails to load: Select the number of messages (25, 50, 75, 100, 200, Total) that appear in your message list.

Auto download attachments: When enabled, items attached to incoming messages are automatically downloaded with the messages.

Auto resend times: Select the number of times your phone is to attempt to send an outgoing message before marking it as un-sent.

Security options: Set advanced email security options.

Incoming settings: Modify settings for accessing the email server to view incoming email messages. (Contact your email service provider.)

Outgoing settings: Modify settings for accessing the email server to send email messages. (Contact your email service provider.)

Google

Adding Google account

1. From the **Accounts** screen, under **My accounts**, touch **Add account → Google**. The **Add a Google Account** screen appears.
2. Touch **Existing** or **New**.
3. Follow the prompts to set up a Google account link.

Account Synchronization settings

For information about Google account Synchronization settings, .

Google account Privacy settings

For information about Google account Privacy settings, see “*Google account Privacy Settings*” on page 54.

General settings

1. Press  **Home**, then touch  **Apps**, and the **Apps** tab. The **Apps** screen appears in the display.
 2. Touch  **Gmail**. The Gmail **Inbox** screen appears.
 3. Touch  **Menu** → **Settings** → **General settings**. The following options are available:
 - **Confirm before deleting**: When enabled, prompts you to confirm deletions of conversations or messages.
 - **Confirm before archiving**: When enabled, prompts you to confirm movement of conversations or messages to archive.
 - **Confirm before sending**: When enabled, prompts you to confirm sending of messages.
 - **Swiping conversation list**: Set Swiping conversation list as
Has no effect on Gmail conversations, Archives or deletes Gmail conversations, or Always deletes Gmail conversations.
 - **Reply all**: When enabled, your message replies are automatically sent to all original message recipients.
 - **Auto-fit messages**: When enabled, messages are shrunk to fit your phone's screen. Zoom is also enabled.
- **Auto-advance**: When enabled, the conversation list is automatically updated and displayed after you delete or archive messages or conversations.
 - **Hide checkboxes**: When enabled, check boxes are not displayed. To select messages or conversations, you must touch and hold them.
 - **Message actions**: Allows you to configure how display message actions. Choose from: Always show, Only show in portrait, and Don't show.

Account settings

1. Press  **Home**, then touch  **Apps**, and the **Apps** tab. The **Apps** screen appears in the display.
2. Touch  **Gmail**. The Gmail **Inbox** screen appears.
3. Touch  **Menu** → **Settings** and select an account.

The following options are available:

- **Priority Inbox:** When enabled, your Gmail account becomes your default inbox.
- **Notifications:** When enabled, notifications for new email appears in the Notifications Panel.
- **Sound & vibrate:** Select Sound (ringtone) to play when new messages arrive, whether to Vibrate to alert you to new messages, and whether to Notify you once for new email messages.
- **Signature:** Create a text signature to add to outgoing messages.
- **DATA USAGE:**
 - **Gmail sync is ON:** Enable or disable automatic synchronization, change synchronization settings for this account, remove this account (unless it is the only Gmail account), or add an account.

- **Days of mail to sync:** Choose the number of days worth of Gmail messages to synchronize.
- **Manage labels:** Choose which Gmail labels are synchronized, and access **Sound & vibrate** settings.
- **Download attachments:** When enabled, automatically downloads attachments to recent messages, but only when your device is connected to a Wi-Fi network.

LDAP

1. From the **Accounts** screen, under **My accounts**, touch **Add account** → **LDAP**. The **Set up an LDAP account** screen appears.
2. Follow the prompts to set up an LDAP account link.

Microsoft Exchange ActiveSync

1. From the **Accounts** screen, under **My accounts**, touch **Microsoft Exchange ActiveSync**. The **Microsoft Exchange ActiveSync** screen appears.
2. Under **Common settings**, touch **Settings**. The **Settings** screen appears.
3. Touch **General settings**. The General settings options are the same as for Email accounts. (See “Email” on page 181.)
4. Under **Added accounts**, touch the desired account. The following options are available:
 - **Notification settings**
 - **Email notifications**: Enable or disable display of a new email icon in the Annunciator line when new mail arrives.
 - **Select ringtone**: Assign a ringtone for new email notifications.
 - **Vibrate**: Enable or disable vibration with new email notifications.
 - **Sync settings**:
 - **Sync Email**: When enabled, your device automatically syncs your email according to your Sync settings.

– Sync schedule:

Set sync schedule: Choose how often your email is synchronized: Push (default), Manual, 5 minutes, 15 minutes, 1 hour, 4 hours, or 12 hours.

While roaming: Choose whether to Manually sync your email while you are outside your Wireless Provider’s network or Use above settings (See “Set sync schedule”).

Peak schedule: When enabled, sync is controlled by your Peak schedule settings during the days and hours you have selected.

Peak schedule settings:

Set peak schedule: Choose how often your email is synchronized during your Peak days and times: Push (default), Manual, 5 minutes, 15 minutes, 1 hour, 4 hours, or 12 hours.

Peak days: Touch to enable/disable peak schedule days (Sunday through Saturday).

Peak start time: Select the time to start peak schedule hours and touch **Set**.

Peak end time: Select the time to end peak schedule hours and touch **Set**.

- **Period to sync email**: Choose the number days worth of email messages the phone and server will synchronize. Choose from: **Automatic, All, 1 day, 3 days, 1 week, 2 weeks, or 1 month.**

- **Size to retrieve emails:** Choose how much of each message your phone retrieves before you view it.

- **Common settings:**

- **Signature:** Touch this option to edit the Signature text to be added to outgoing messages.

Touch **Signature**  to turn ON adding Signature text to all outgoing messages.

Touch **Signature**  to turn OFF adding Signature text to all outgoing messages.

- **Default account:** Touch to assign or un-assign this account as the default account for sending email from your phone.

- **Out of office settings:**

Send out of office auto-replies: When enabled, sends your Internal message and External message (when enabled) according to the values you choose for the other, now activated Out of office settings.

Send out of office auto-replies during this period: When enabled, lets you select a Start time and End time for sending out of office auto-replies.

Internal message: Edit the auto-reply message to be sent to email addresses within your organization.

Send out of office auto-replies to external senders: When enabled, sends your External message to either senders in your contact list or to anyone outside of your organization.

External message: Edit the auto-reply message to be sent to email addresses outside your organization.

- **More settings:**

Account name: Change the name that identifies this account.

Always Cc/Bcc myself: Adds your email address to None of send email messages or to Cc or Bcc field of send email messages.

Forward with attachments: Enables including copies of any attached files when forwarding a copy of an email message.

Show images: When enabled, images included in messages automatically display, without a confirmation pop-up.

Auto download attachments: When enabled, automatically downloads attachments to recent messages, but only when your device is connected to a Wi-Fi network.

Auto resend times: Choose the number of times to automatically resend a message before marking it un-sent.

Folder sync settings: Choose email automatic synchronization schedules for individual folders.

Period to sync Calendar: Choose the period of time for your phone to synchronize calendar events (**2 weeks, 1 month, 3 months, 6 months, or All calendar**).

Empty server trash: Delete your email account's trash bin remotely.

Sync Contacts: Synchronize your phone's contacts list with the Exchange server's contacts list.

Sync Calendar: Synchronize your phone's calendar with the Exchange server's calendar.

Sync Task: Synchronize your phone's Task list with the Exchange server's Task list.

In case of sync conflict: Choose whether your Device has priority or the Server has priority during automatic synchronization.

Security options: Choose values for advanced email security options.

Exchange server settings: Change the server link settings on your device.

Facebook

1. From the **Accounts** screen, under **My accounts**, touch **Add account** → **Sync apps with Facebook**. The **Play store - Facebook Install** screen appears.
2. Follow the prompts to link your phone to an existing Facebook account, or to set up a Facebook account and link your phone to it.

Cloud

1. From the **Accounts** screen, under **Backup options**, touch **Cloud**. The **Cloud** screen appears.
2. Follow the prompts to link your phone to an existing Cloud storage account or Dropbox account, or to set up a Cloud storage account or Dropbox account and link your phone to it.

Back up and reset

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

- From the **Accounts** screen, under **Backup options**, touch **Backup and reset**. The **Backup and reset** screen appears.

Backup and restore

- From the **Backup and reset** screen, under **Backup and restore**, touch the check box next to each of the following options to enable it: (When enabled, a check mark appears in the check box.)
 - **Back up my data**: Backs up app data, Wi-Fi passwords, and other phone settings to Google servers.
 - **Backup account**: Select or set-up a Google account your phone will use to backup your app data, Wi-Fi passwords, and other phone settings.
 - **Automatic restore**: Automatically restore app data, Wi-Fi passwords, and other phone settings from your automatic backup.

Personal data

Factory data reset

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

Important! Settings and data erased in a Factory data reset cannot be recovered. To save your settings, you can use the **Back up my data** option before a reset. (For more information, see “*Backup and restore*”.)

- From the **Backup and reset** screen, under **Personal data**, touch **Factory data reset** to return all settings to the defaults, and remove all data from the phone.

More

- From the **Settings** screen, touch  **More**. The **More** screen appears.

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

1. From the **More** screen, under **Permissions**, touch **Locations services**. The **Location services** screen appears.
2. Touch **Access to my location**  to turn Access to my location ON and make the Location services active.
– or –

Touch **Access to my location**  to turn Access to my location OFF and make the Location services inactive.

3. Touch the following options to enable/disable them. (When an option is enabled, a check mark appears in its check box.):
 - **Use GPS satellites**: When enabled, lets applications use GPS to pinpoint your location.

Note: **Use GPS satellites** must be enabled to use some applications. You can also enable or disable **GPS** from the Notifications panel. (For more information, refer to “*Notifications panel*” on page 33.)

Important! By selecting **Use GPS satellites**, 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.

- **Use wireless networks:** When enabled, lets applications use data from mobile networks and Wi-Fi to help determine your location.
- **My places:** Save your favorite locations (Home, Office, Car) for use with services that require location information.

Security

- From the **More** screen, under **Permissions**, touch **Security**. The **Security** screen appears.

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.

Once your information is encrypted you will be prompted to enter your decryption password each time you turn your phone on.

- From the **Security** screen, under **Encryption**, touch the following options to encrypt your information:
 - **Encrypt device:** Touch this option to encrypt accounts, settings, downloaded applications and data, media files, and more under a password you specify.

- **Encrypt external SD card:** Touch this option to encrypt selected information stored on a microSD memory card under a password you specify. The following additional **Encryption settings** are available:
 - **Encrypt:** When enabled, new files on the memory card will be encrypted as they are added.
 - **Full encryption:** When enabled, all files on the memory card will be encrypted.
 - **Exclude multimedia files:** When enabled, multimedia files on the memory card will not be encrypted.

Passwords

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

- From the **Security** screen, under **Passwords**, touch the following option to enable/disable it: (When the option is enabled, a check mark appears in the check box.)
 - **Make passwords visible:** When enabled, briefly displays password characters as you enter them.

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.

- From the **Security** screen, under **Device administration**, touch the following options to enable/disable them: (When an option is enabled, a check mark appears in its check box.)
 - **Device administrators:** View, add, or remove device administrators.
 - **Unknown sources:** When enabled, you can install applications from sources other than Google Play®.
 - **Verify apps:** When enabled, installation is blocked or you are warned about apps that may harm 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.

Credential storage

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

- From the **Security** screen, under **Credential storage**, touch the following options to enable/disable them. (When an option is enabled, a check mark appears in its check box.):
 - **Trusted credentials:** View, enable, or disable trusted CA certificates.
 - **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.

- **Clear credentials:** Clear stored credentials and reset the password.

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

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 **More** screen, under **Device manager**, touch **Application manager**. The **Applications manager** screen appears.
2. Touch **Downloaded**, **Running**, or **All** to list the statuses of applications and services.

The graph at the bottom of the **Downloaded** and **All** tabs shows used and free Device memory.

The graph at the bottom of the **Running** tab shows used and free RAM.

Battery

See how much battery power is being used by device activities.

1. From the **More** screen, under **Device manager**, touch **Battery**. The **Battery** screen appears.
2. View battery usage for applications and services currently running.
The battery level displays in percentage. The amount of time the battery was used also displays. Battery usage displays in percentages per application.
3. Touch **Screen**, **Cell standby**, **Android System**, **Android OS**, or any other listed feature or application to view how it is affecting battery use.

Note: Other applications may be running that affect battery use.

Storage

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

1. From the **More** screen, under **Device manager**, touch **Storage**. The **Storage** screen appears. The following options are available:

- **Device memory:** View usage for, and manage, your phone's internal memory (For detailed information and to manage storage in use, touch any item except **Total space** or **Available space**):
 - **Total space:** Shows the total installed device memory.
 - **Applications:** Shows the total device memory currently used to store applications.
 - **Pictures, videos:** Shows the total device memory currently used to store pictures and videos.
 - **Audio (music, ringtones, podcasts, etc.):** Shows the total device memory currently used to store music files, ringtones, and so on.)
 - **Downloads:** Shows the total device memory currently used to store recently downloaded files.

- **Miscellaneous files:** Shows the total device memory currently used to store various application data and system data files.
- **Available space:** Shows the total device memory available for use.
- **SD card:** View usage for, and manage, storage space on an optional memory card.
 - **Total space:** Shows the total card memory.
 - **Available space:** Shows the total card memory available for use.
 - **Unmount SD card:** Deactivates the memory card so that you can safely remove it or format it. (For more information, see *"Installing and Removing a Memory Card"* on page 138.)
 - **Format SD card:** Deletes all data from the memory card, including music, videos, and photos. (For more information, see *"Formatting a Memory Card"* on page 138.)

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 **More** screen, under **Device manager**, touch **Date and time**. The **Date and time** screen appears.
2. Touch a setting to configure:
 - **Automatic date and time**: When enabled, the phone takes date and time updates from the wireless network (disables Set date, Set time, and Select time zone).
 - **Set date** (only available when Automatic date and time is disabled): Enter the current date.
 - **Set time** (only available when Automatic date and time is disabled): Enter the current time.
 - **Automatic time zone**: When enabled, the phone uses the network-provided time zone.
 - **Select time zone** (only available when Automatic time zone is disabled): Choose your local time zone.
 - **Use 24-hour format**: Set the format for time displays.
 - **Select date format**: Set the format for date displays.

About device

1. From the **More** screen, under **Device manager**, touch **About device**. The **About device** screen appears.

Software Update

Software Update lets your phone connect to the network and download any new phone software directly to your phone. The phone automatically updates with the latest available software when you access this option.

1. From the **About device** screen, touch **Software update**. You are prompted to select your current country.
2. Select a Country, then touch **OK**. A Terms and Conditions screen appears.
3. To proceed to Software Update, touch **I accept all the terms above**, then touch **Confirm**. Your device registers itself with your Wireless Provider's Software Update service, connects with your Wireless Provider's server, and scans for software updates.
4. At the **Software update** prompt, touch **OK** to continue.
5. The phone automatically updates the software (if available); otherwise, when the **The latest updates have already been installed** prompt pops up, touch **OK**.

6. When updating software, once the update file is downloaded, you can delay the update on the start screen by postponing it for a certain period of time. If you want to resume the update before the selected time, touch **Continue update**.

Status

- From the **About device** screen, touch **Status**. The **Status** screen appears showing: Battery status, Battery level, Network, Signal strength, Mobile network type, Service state, Roaming, Mobile network state, My phone number, MIN, PRL version, MEID, IMEI, ICCID, IP address, Wi-Fi MAC address, Bluetooth address, Up time, and Device status.

Legal information

- From the **About device** screen, touch **Legal information**. From the **Legal information** screen, the following information is available for viewing:
 - Open source licenses
 - Google legal information
 - License settings, including your phone's DivX VOD registration

Device name

- From the **About device** screen, touch **Device name** to change the device name for your phone.

Additional information

The following information items also appear in the About device screen:

- **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.

Note: To activate your phone's application **Developer options**, repeatedly touch this option at least 6 times in quick succession.

A pop-up message appears to indicate how many more time you must touch this option.

When enabled, the **Developer options** tab appears in the **More** screen, under **Device manager**.

- **Hardware version:** View the hardware version of your phone.

Section 9: Health and Safety Information

This device is capable of operating in Wi-Fi mode in the 2.4 and 5 GHz bands. The FCC requires that devices operating within 5.15-5.25 GHz may only be used indoors, not outside, in order to avoid interference with Mobile Satellite Services (MSS).

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.

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.

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>.

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 1.0 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 device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. This mobile phone has a FCC ID number: A3LSCHR960 [Model Number: SCH-R960] and the specific SAR levels for this mobile phone can be found at the following FCC website:

<http://www.fcc.gov/oet/ea/>.

The SAR information for this device can also be found on Samsung's website:

<http://www.samsung.com/sar>.

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 CMAS. If your wireless provider has chosen to participate in CMAS, 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

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.

- **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.

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

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

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=STA_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

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!

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

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. From the Home screen, touch  to launch the Phone Dialer.
3. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
4. Touch  to place the call.

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

Caution! Avoid potential hearing loss.

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

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

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

Internet:
[http://www.cdc.gov/niosh/topics/noise/
default.html](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.

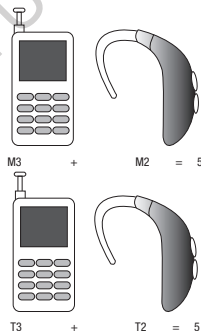
Hearing devices may also be rated. Your hearing aid manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise.

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

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.

SAMSUNG MAKES NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, AS TO THE QUALITY, CAPABILITIES, OPERATIONS, PERFORMANCE

OR SUITABILITY OF ANY THIRD-PARTY SOFTWARE OR EQUIPMENT USED IN CONJUNCTION WITH THE PRODUCT, OR THE ABILITY TO INTEGRATE ANY SUCH SOFTWARE OR EQUIPMENT WITH THE PRODUCT, WHETHER SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT IS INCLUDED WITH THE PRODUCT DISTRIBUTED BY SAMSUNG OR OTHERWISE. RESPONSIBILITY FOR THE QUALITY, CAPABILITIES, OPERATIONS, PERFORMANCE AND SUITABILITY OF ANY SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT RESTS SOLELY WITH THE USER AND THE DIRECT VENDOR, OWNER OR SUPPLIER OF SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT.

Nothing in the Product instructions or information shall be construed to create an express warranty of any kind with respect to the Products. No agent, employee, dealer, representative or reseller is authorized to modify or extend this Limited Warranty or to make binding representations or claims, whether in advertising, presentations or otherwise, on behalf of SAMSUNG regarding the Products or this Limited Warranty.

This Limited Warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

What is the procedure for resolving disputes?

ALL DISPUTES WITH SAMSUNG ARISING IN ANY WAY FROM THIS LIMITED WARRANTY OR THE SALE, CONDITION OR PERFORMANCE OF THE PRODUCTS SHALL BE RESOLVED EXCLUSIVELY THROUGH FINAL AND BINDING ARBITRATION, AND NOT BY A COURT OR JURY.

Any such dispute shall not be combined or consolidated with a dispute involving any other person's or entity's Product or claim, and specifically, without limitation of the foregoing, shall not under any circumstances proceed as part of a class action. The arbitration shall be conducted before a single arbitrator, whose award may not exceed, in form or amount, the relief allowed by the applicable law. The arbitration shall be conducted according to the American Arbitration Association (AAA) Commercial Arbitration Rules applicable to consumer disputes. This arbitration provision is entered pursuant to the Federal Arbitration Act. The laws of the State of Texas, without reference to its choice of laws principles, shall govern the interpretation of the Limited Warranty and all disputes that are subject to this arbitration provision. The arbitrator shall decide all issues of interpretation and application of this arbitration provision and the Limited Warranty.

For any arbitration in which your total damage claims, exclusive of attorney fees and expert witness fees, are \$5,000.00 or less ("Small Claim"), the arbitrator may, if you prevail, award your reasonable attorney fees, expert witness fees and costs as part of any award, but may not grant SAMSUNG its attorney fees, expert witness fees or costs unless it is determined that the claim was brought in bad faith. In a Small Claim case, you shall be required to pay no more than half of the total administrative, facility and arbitrator fees, or \$50.00 of such fees, whichever is less, and SAMSUNG shall pay the remainder of such fees.

Administrative, facility and arbitrator fees for arbitrations in which your total damage claims, exclusive of attorney fees and expert witness fees, exceed \$5,000.00 ("Large Claim") shall be determined according to AAA rules. In a Large Claim case, the arbitrator may grant to the prevailing party, or apportion among the parties, reasonable attorney fees, expert witness fees and costs. Judgment may be entered on the arbitrator's award in any court of competent jurisdiction.

This arbitration provision also applies to claims against SAMSUNG's employees, representatives and affiliates if any such claim arises from the Product's sale, condition or performance.

You may opt out of this dispute resolution procedure by providing notice to SAMSUNG no later than 30 calendar days from the date of the first consumer purchaser's purchase of the Product. To opt out, you must send notice by e-mail to optout@sta.samsung.com, with the subject line: "Arbitration Opt Out." You must include in the opt out e-mail (a) your name and address; (b) the date on which the Product was purchased; (c) the Product model name or model number; and (d) the IMEI or MEID or Serial Number, as applicable, if you have it (the IMEI or MEID or Serial Number can be found (i) on the Product box; (ii) on the Product information screen, which can be found under "Settings;" (iii) on a label on the back of the Product beneath the battery, if the battery is removable; and (iv) on the outside of the Product if the battery is not removable). Alternatively, you may opt out by calling 1-888-987-4357 no later than 30 calendar days from the date of the first consumer purchaser's purchase of the Product and providing the same information. These are the only two forms of notice that will be effective to opt out of this dispute resolution procedure. Opting out of this dispute resolution procedure will not affect the coverage of the Limited Warranty in any way, and you will continue to enjoy the benefits of the Limited Warranty.

Severability

If any portion of this Limited Warranty is held to be illegal or unenforceable, such partial illegality or unenforceability shall not affect the enforceability of the remainder of the Limited Warranty.

Precautions for Transfer and Disposal

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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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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