

Samsung GALAXY AXIOM™

S C H - R 8 3 0

A N D R O I D S M A R T P H O N E

User Manual

**Please read this manual before operating your
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4GLTE coverage is available in select markets. 4G, as used with this phone, refers to the fact that the phone is designed with LTE technology.

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Section 1: Getting Started

This section allows you to quickly start using your Samsung SCH-R830 phone by installing the SIM and microSD cards, installing and charging the battery, activating your service, and setting up your voicemail account.

Understanding this User Manual

The sections of this manual generally follow the features of your phone. A robust index for features begins on page 215. Also included is important safety information that you should know before using your phone. Most of this information is near the back of the guide, beginning on page 178.

Note: Instructions in this manual are based on default settings, and may vary from your phone, depending on the software version on your phone, and any changes to the phone's Settings.

Unless stated otherwise, instructions in this User Manual start with the phone unlocked, at the Home screen.

All screen images in this manual are simulated. Actual displays may vary, depending on the software version of your phone and any changes to the phone's Settings.

Text Conventions

This manual provides condensed information about how to use your phone. To make this possible, the following text conventions are used to represent often-used steps:

- Arrows are used to represent the sequence of selecting successive options in longer, or repetitive, procedures.

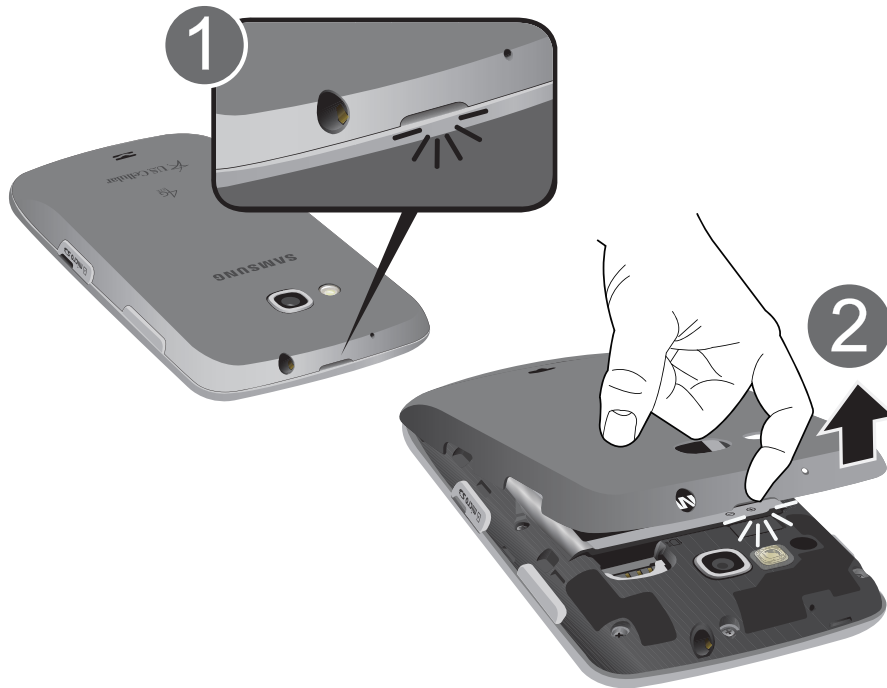
Example: “From the Home screen, touch  **Menu**, then touch **Settings → Wireless and network → Wi-Fi settings.**”

Setting Up Your Phone

Before using your phone, you need to install the SIM card, microSD™ card, and battery into their respective internal slots and compartment.

Removing the battery cover

- Pull up using the slot provided (1), while lifting the cover off the phone (2).



Installing the SIM Card

When you subscribe to a 4G LTE cellular network, you are provided with a plug-in SIM card loaded with your subscription details.

Important! The SIM card must be installed for your phone to access 4G LTE.

Important! The plug-in SIM card information and its contacts can be easily damaged by scratching or bending, so be careful when handling, inserting, or removing the card. Keep all SIM cards out of reach of small children.

- Make sure the gold contacts of the SIM card face into the phone, then carefully slide the SIM card into the SIM card socket (as shown) until the card locks into place.



Note: If the SIM card is not inserted correctly, the phone cannot make an LTE connection with the network.

Important! The SIM card provided with your phone is matched with it and will not function if transferred to any other device.

Installing the Memory Card

Your device lets you install a microSD™ (SD) or microSDHC™ memory card to expand available memory to store images, videos, music, some applications, and data.

- With the gold contacts facing down, carefully slide the memory card into the slot (as shown), pushing gently until it clicks into place.



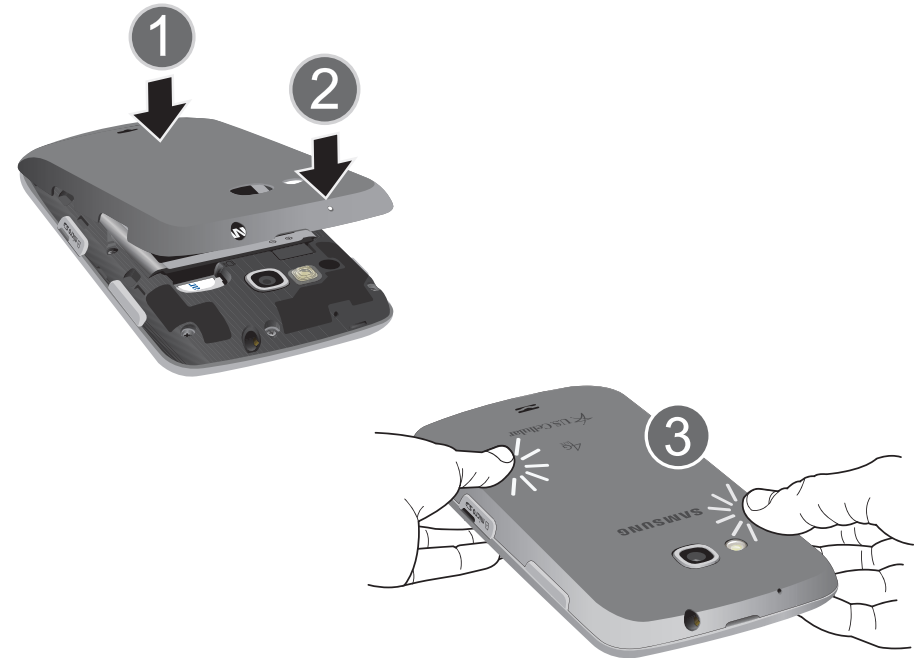
Installing the Battery

1. Remove the battery cover. (For more information, see *“Removing the battery cover”*.)
2. Insert the battery into the phone (1), aligning the gold contacts on the battery with the gold contacts in the phone. Push down on the bottom of the battery (2) until it snaps into place.



Installing the battery cover

- Align the cover (1) and press it firmly into place (2), making sure it snaps into place along its edges (3).



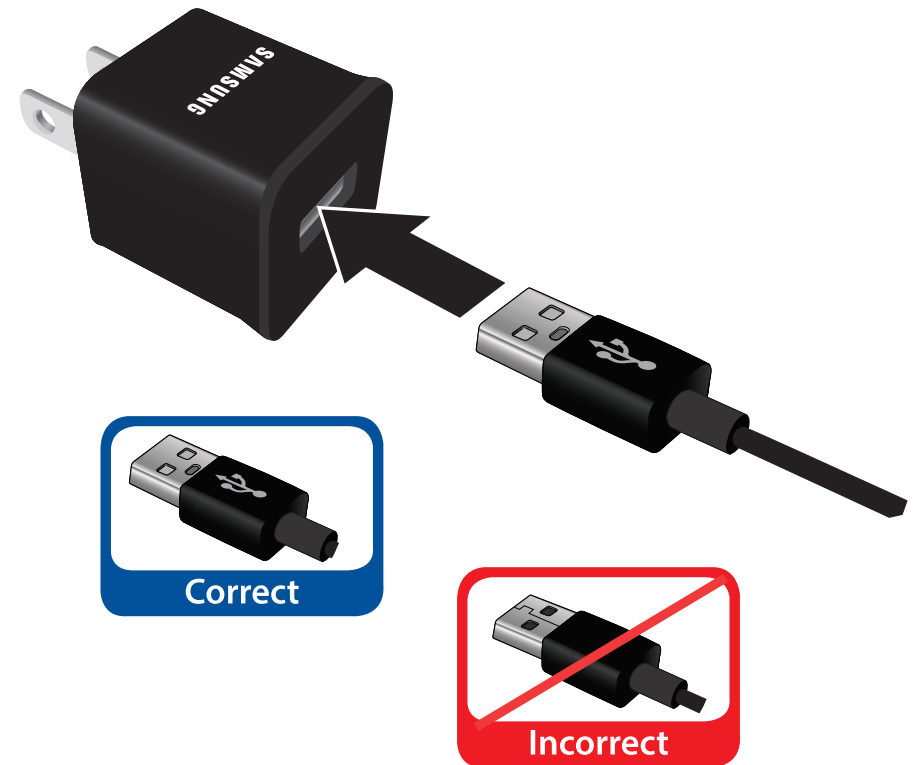
Charging the Battery

Your phone comes with a Wall/USB Charger (Charging Head and USB cable) to rapidly charge your phone from any 120/220 VAC outlet.

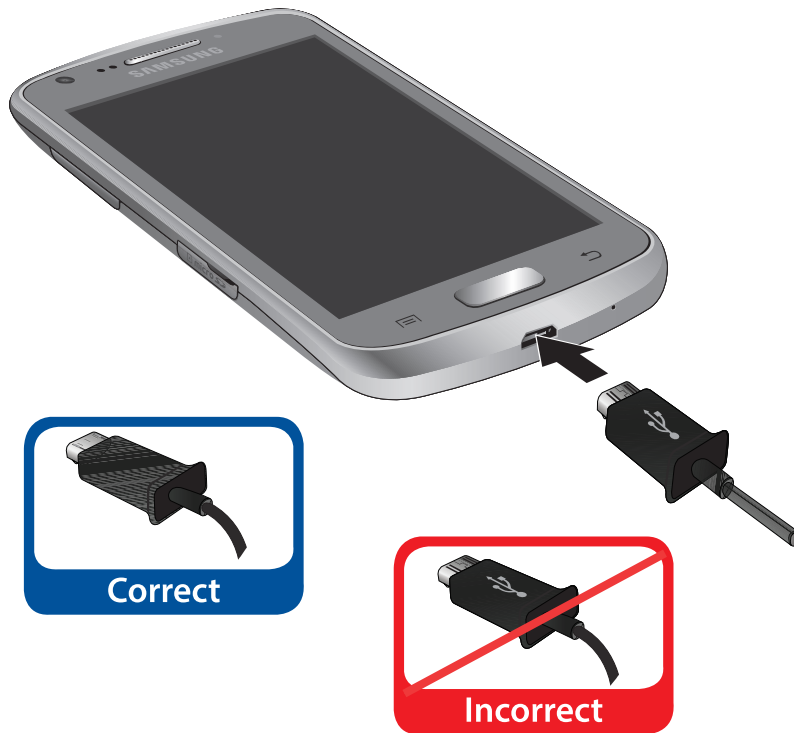
Note: The battery comes partially charged. You must fully charge the battery before using your phone for the first time. A fully discharged battery requires up to 4 hours of charge time.

After the first charge, you can use the phone while charging.

1. Connect the USB cable to the charging head.



2. On the phone, slide the connector cover (1) to expose the connector.



3. Insert the USB cable into the port (2).
4. Plug the charging head into a standard AC power outlet.
5. When charging is complete, unplug the charging head from the power outlet and remove the USB cable from the phone.

Battery

Your phone is powered by a rechargeable, standard Li-Ion battery. A Wall/USB Charger (Charging Head and USB cable) is included with the phone, for charging the battery.

Note: The battery comes partially charged. You must fully charge the battery before using your phone for the first time. A fully discharged battery requires up to 4 hours of charge time.

After the first charge, you can use the phone while charging.

Warning! Use only Samsung-approved charging devices and batteries. Samsung accessories are designed to maximize battery life. Using other accessories may invalidate your warranty and may cause damage.

Battery Indicator

The battery icon  in the Annunciator Line shows battery power level. Two to three minutes before the battery becomes too low to operate, the empty battery icon will flash and a tone will sound. If you continue to operate the phone without charging, the phone will power off.

TTY Mode

Your phone is fully TTY-compatible, allowing you to connect a TTY device to the phone's headset jack. Before you can use your phone with a TTY device, you'll need to enable TTY Mode.

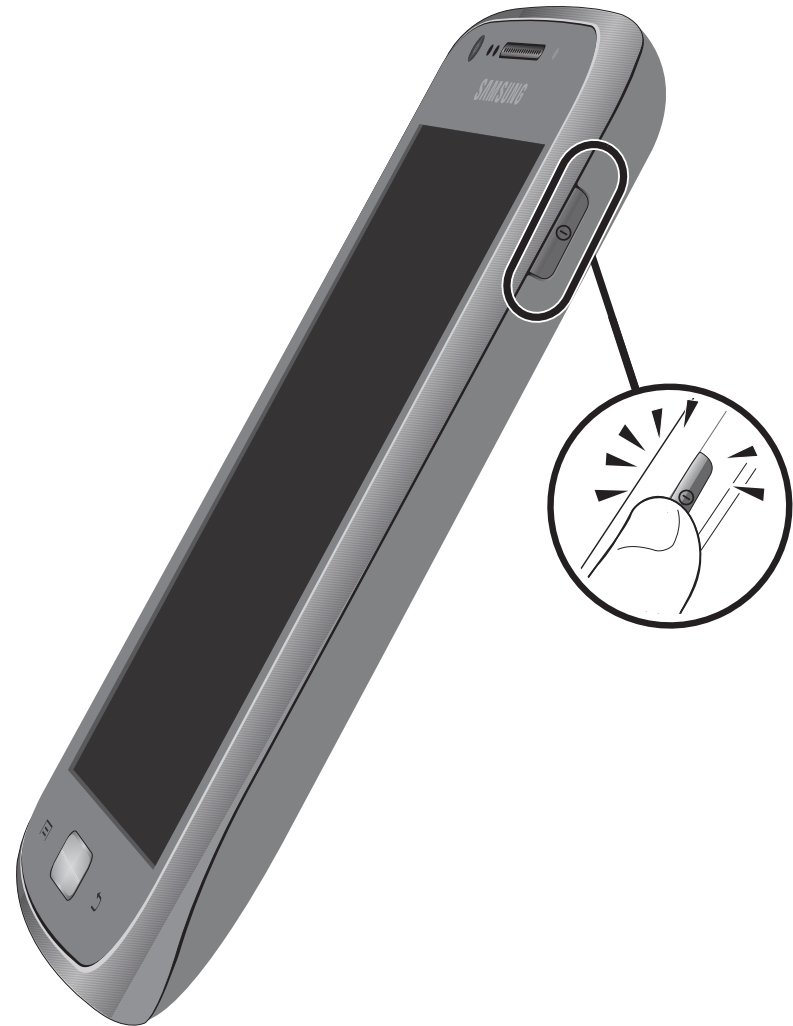
For more information, refer to *"Other call settings"* on page 43.

Turning Your Phone On

- Press and hold the  **Power/Lock** key for three seconds.

While powering on, the phone connects with the network (both digital and LTE), then displays the Locked screen and any active Notification alerts.

Note: Your phone's internal antenna is located along the bottom back of the phone. Do not block the antenna; doing so may affect call quality or cause the phone to operate at a higher power level than necessary.



Unlocking Your Phone

1. If needed, Press the  **Power/Lock** key on the upper right side to wake the screen.
2. Swipe across the screen.
The Home screen appears.



Voicemail

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

Setting up Voicemail

1. Press  **Home** →  **Phone**.
2. Touch and hold .
3. Follow the automated instructions to set up your new password and record a greeting.

Checking Voicemail

1. Press  **Home** →  **Phone**.
2. Touch and hold .
3. Follow the automated instructions to manage voicemail.

Tip: You can also access **Voicemail** by dialing your phone number from any touch-tone phone.

Displaying Your Phone Number

- Press  **Home** →  **Menu** → **Settings** → **About phone** → **Status**.
Your phone number displays under **Phone number**.

Your Samsung Account

A Samsung account is required for you to access all features of such applications as Media Hub and Samsung Apps. When you turn on your phone for the first time, you should set up a connection with your existing Samsung account, or create a new Samsung account.

1. Press  **Home** →  **Menu**, then touch **Settings** → **Accounts and sync**.
2. Touch **Add account** →  **Samsung account**.
3. At the **Samsung account** screen, touch one of the following options:
 - **Create new account**: Follow the prompts to create a new account.
 - **Sign in**: Enter your existing Samsung account **Email** and **Password**, then touch **Sign in**.
4. The phone communicates with the Samsung server to set up your account. When complete, your Samsung account appears in the **Accounts and sync** screen.

Your Google™ Account

Your new phone uses your Google account to fully use its Android features, including Gmail, Google Maps, Google Talk, and the Play Market. When you turn on your phone for the first time, you should set up a connection with your existing Google account, or create a new Google account.

1. Press  **Home** →  **Apps** →  **Gmail**.
The **Add a Google Account** screen displays.
2. Touch **Next** to continue.
3. Follow the on-screen instructions to create a Google Account, or to sign in if you already have a Google account.

Resetting your Google Account Password

A Google account password is required for Google applications. If you misplace or forget your Google Account password, follow these instructions to reset it:

1. From your computer, use an Internet browser to navigate to <http://google.com/accounts>.
2. Once the URL loads, click on the **Can't access your account?** link.

3. Under **Forgot your password?**, follow the password reset prompts.

Roaming

When you travel outside your home network's coverage area, your phone can roam to acquire service on other compatible digital networks. When Roaming is active, the Roaming icon () appears in the Annunciator Line of the display.

Tip: You can set your phone's roaming behavior. (For more information, refer to "*Mobile networks*" on page 141.)

During roaming, some services may not be available. Depending on your coverage area and service plan, extra charges may apply when making or receiving calls.

Note: Contact your Wireless Provider for more information about your coverage area and service plan.

Securing Your Phone

By default, the phone locks automatically when the screen times out, or you can lock it manually. You can unlock the phone using one of the default Unlock screens, or for increased security, use a personal screen unlock pattern, a Personal Identification Number (PIN), or a password.

For more information about creating and enabling a Screen unlock pattern, see "*Screen security*" on page 161.

For other settings related to securing your phone, see "*Security*" on page 161.

Note: Unless stated otherwise, instructions in this User Manual start with the phone unlocked, at the Home screen.

Locking the phone manually

- Press the  **Power/Lock** key on the upper right side of the phone.

Unlocking the phone

For information on unlocking your phone, see "*Unlocking Your Phone*" on page 12.

Unlocking with a Personal Screen Unlock Pattern

1. Press the  **Power/Lock** key on the upper right side to wake the screen.
2. Draw your personal unlock pattern on the screen.

For more information, refer to “*Screen security*” on page 161.

Unlocking with a Password

1. Press the  **Power/Lock** key to wake the screen.
2. Enter your Password.
3. Touch **OK**.

System Tutorial

Learn about important concepts to get the most out of your phone.

- From the Home screen, touch  **Menu**, then touch **Settings** → **About phone** → **System tutorial**.

Turning Your Phone Off

1. Press and hold the  **Power/Lock** key for two seconds.
2. At the prompt, touch **Power off**.

Removing the Battery

1. Remove the battery cover. (For more information, refer to “*Removing the battery cover*” on page 6.)
2. Lift the battery up by the slot provided (1).



3. Lift the battery up and out of the phone (2).

Memory Card

Your phone includes a removable microSD™ memory card, for storage of music, pictures, and other files, and supports optional microSD™ or microSDHC™ memory cards of up to 32GB capacity. (For information on installing a memory card, see *“Installing the Memory Card”* on page 7.)

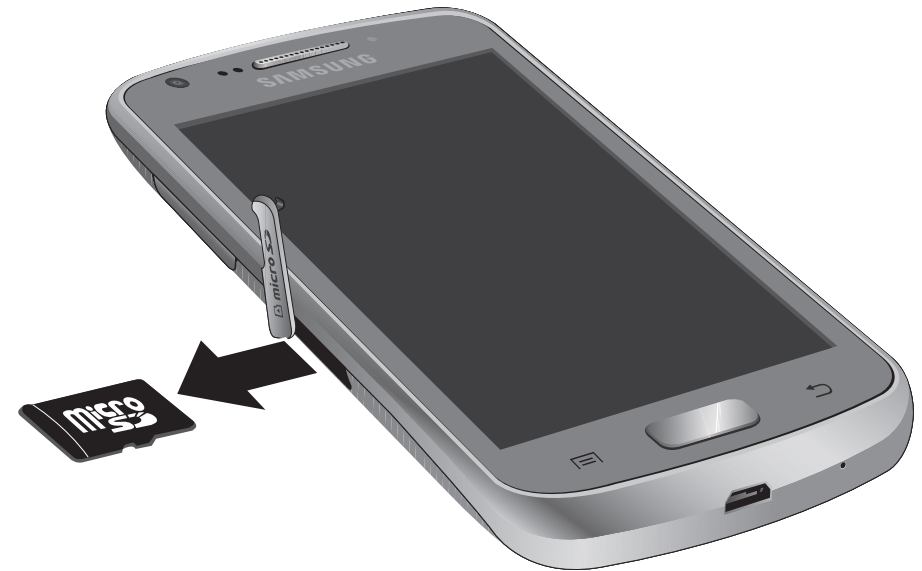
Note: You can only store music files that you own (from a CD or purchased using the phone) on a memory card.

Removing a Memory Card

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

1. From the Home screen, touch  **Menu**, then touch **Settings → SD card and phone storage → Unmount SD card**.
2. Remove the rear cover. (For more information, refer to *“Removing the battery cover”* on page 6.)

3. Gently press on the memory card, then release so that it pops out from the slot, and carefully pull the card out.



4. If desired, install another memory card.
5. Install the cover. (For more information, refer to *“Installing the battery cover”* on page 8.)

Section 2: Understanding Your Phone

This section outlines key features of your phone, including keys, displays, and icons.

Features

- 4.0-inch (800x480 pixel) WVGA full-screen touch screen
- 1.2 Gigahertz Dual-Core Processor
- High Speed Data [4G Long Term Evolution (LTE) Technology, EVDO Rev A Capable Technology, and Wi-Fi Technology]
- Android OS
- Motion and position sensitivity
- Full integration with Google[®] applications, including Play Store[®], plus pre-loaded applications
- Connections
 - USB 2.0 HS
 - Wi-Fi 802.11 a/b/g/n
 - Portable Wi-Fi Hotspot
 - USB Tethering
 - Bluetooth 4.0 (For more information, refer to “*Bluetooth profiles*” on page 137.)
- Messaging Services (with on-screen QWERTY Keypads)
 - Text, Picture, and Video Messaging
 - Voice Messaging
 - Email
 - Mobile Instant Messenger (IM)
 - Chat
- Full-HTML Browser
- Global Positioning (GPS) Technology
- 5 Megapixel CMOS Camera-Camcorder, rear-facing
- 1.3 Megapixel CMOS Camera-Camcorder, front-facing
- Picture Gallery, supporting JPG, PNG, GIF, and BMP formats
- Music Player, supporting MP3 format
- Video Player, supporting MP4, M4V, 3GP, DIVX, H.263, and H.264 formats
- Speakerphone
- Ringtone and Alert tone support for MP3, AAC, WMA, OGG, QCP, EVRC, MIDI, WAV, and AMR formats
- Support for microSD[™] and microSDHC[™] Memory Cards (up to 32 GB capacity) (A microSD Memory Card is included with your phone.)

Front View



1. **Earpiece:** Listen to callers.
2. **Camera Lens:** Take photos or record videos.
3. **Light and Proximity Sensors:** Light sensor adjusts screen brightness when **Brightness** is set to **Automatic brightness**. (For more information, refer to “*Brightness*” on page 154.) During a call, if Proximity sensor detects the phone is next to your face, the screen darkens to save battery power.
4. **Menu Key:** Touch to display options for the current screen (**Edit page, Create folder, Search, Settings**).
5. **Home Key:** Touch to display the Home screen. Touch and hold at any time to launch Task Manager.
6. **Back Key:** Touch to return to the previous screen or option.
7. **Microphone:** Passes your voice to other parties in a call. Used when recording voice notes. Passes your voice to Voice Control. (See “*Voice Recorder*” on page 131 and “*S Voice*” on page 128.)
8. **LED Indicator:** Only lights when screen is off. Indicates statuses you select. (See “*LED Indicator*” on page 156.)

Side Views



1. **3.5mm Headset Jack:** allows you to plug in headphones.
2. **Volume Key:** From a Home screen, press to adjust Master Volume. During calls or music playback, press to adjust volume. Press to mute the ringtone of an incoming call.
3. **Memory Card Slot:** Lets you insert a microSD™ (up to 2 GB) or microSD™HC (up to 32 GB) memory card for additional storage of images, videos, music, ringtones, and recorded sound files.
4. **USB Power/Accessory Port:** Plug in a USB cable for charging or to sync music and files.
5. **Power/Lock Key:** Press and hold to power your phone on or off. With the phone on, press to lock your phone and blank or waken the display.
6. **Noise Cancellation Microphone:** Used by your phone to reduce background noise during calls.

Back View



1. **Camera Lens:** Take photos or record videos.
2. **Flash:** Used when taking pictures or recording videos in low light.
3. **Back Cover:** Protects the battery and LTE SIM slot.
4. **Speaker Grill:** Plays ringtones, call audio when in Speakerphone mode, music, and other sounds.

Touch Screen Display

Your phone's touch screen display is the interface to its features.



1. **Annunciator Line:** Presents icons showing network, system, and connection status. (For more information, refer to “*Annunciator Line*” on page 23.)
2. **Home screen:** Starting point for using your phone. Place application icons, widgets, and other items to customize your phone to your needs. (For more information, refer to “*Home Screen*” on page 27, .)
3. **Primary Shortcuts:** Shortcuts to your phone's common features. (For more information, refer to “*Primary Shortcuts*” on page 28.)
4. **Panel Indicators:** Indicate or select which of the seven Home screen panels appears in the display. (See “*Extended Home Screen*” on page 27.)
5. **Shortcuts:** Shortcuts can be added to quickly launch applications or features, such as Email or other applications. (For more information, refer to “*Adding Apps and Widgets to a Home Screen panel*” on page 30.)
6. **Widgets:** Widgets can be added to provide direct access to applications or features, such as Google Search. (See “*Adding Apps and Widgets to a Home Screen panel*” on page 30.)

Display settings

You can customize display settings to your preferences. (For more information, refer to “*Display*” on page 154.)

Changing the Screen Orientation

You can manually change the orientation of most of your phone’s screens by opening the QWERTY keypad.

Your SCH-R830 can also automatically change the orientation of some screens. The phone’s built-in accelerometer senses movement and changes a screen’s orientation from portrait to landscape.

Note: Some screens, especially those for applications and games, do not respond to the accelerometer.



Annunciator Line

The Annunciator line displays icons to show network status, battery power, and other details.



Signal Strength: Current signal strength. The greater the number of bars, the stronger the signal.



Airplane Mode Active: All wireless communications are disabled. (See “*Airplane mode*” on page 140.)



System Alert: Check Notifications Panel for alerts.



Voice Call: A voice call is in progress.



Speakerphone: Speakerphone is enabled.



Missed Call: Displays when there is a missed call.



Battery Level: Shown fully charged.



Charging Indicator: Battery is charging.



Device Power Critical: Battery has only three percent power remaining. Charge immediately.



1X Connection Active: Phone is active on a 1X system.



3G Connection Active: Phone is active on an EVDO system.



4G Connection Active: Phone is active on a 4G LTE system.



USB Connected: The phone is connected to a computer using a USB cable.



New Text Message: You have a new text or multimedia message.



New Voicemail: You have new voicemail.



New Email Message: You have new email.



Alarm Set: An alarm is active. (For more information, refer to “*Clock*” on page 105.)



Silent mode: All sounds except media and alarms are silenced. (See “*Sound profiles*” on page 150.)



Vibrate mode: All sounds are silenced, but the phone vibrates for alerts. (See “*Sound profiles*” on page 150.)



Preparing SD Card: An optional memory card is installed and being prepared for use.



SD Card ready to be removed: Memory card has been unmounted and can be removed without damaging files stored on the card.



SD Card Media scanning complete: Scan for media files on optional memory card is complete.



SD Card removed: Optional memory card removed without being unmounted.



Bluetooth Active: Bluetooth is turned on.



Bluetooth Connected: The phone is paired with another Bluetooth device.



Wi-Fi Active: Wi-Fi is connected, active, and communicating with a Wireless Access Point (WAP).



Wi-Fi Action Needed: Action needed to connect to Wireless Access Point (WAP).



TTY: TTY Mode is active.

Navigation

Navigate your phone's features using the command keys and the touch screen.

Warning! If your handset has a touch screen display, please note that a touch screen responds best to a light touch from the pad of your finger. 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, refer to “*Warranty Information*” on page 202.)

Command Keys

Menu Key

Touch  **Menu** to display a context-sensitive menu of options for the current screen or feature.

Home Key

- Press  **Home** to display the Home screen.
- Press and hold at any time to show a list of features and/or apps you've used recently.
 - At the bottom of list, touch **Task manager** to review and manage applications, clear **RAM** (memory), and review available **Storage** (System and SD card).
 - To empty the recent features-apps list, touch **Remove all**.

Back Key

Touch  **Back** to return to the previous screen, option or step.

Context-sensitive Menus

While using your phone, context-sensitive menus offer options for the feature or screen. To access context-sensitive menus:

- Touch  **Menu**.
- Touch and hold on an item.

Touch

Touch items to select or launch them. For example:

- Touch the on screen keypad to enter characters or text.
- Touch a menu item to select it.
- Touch an application's icon to launch the application.

Touch and Hold

Activate on-screen items by a touch and hold gesture. For example:

- Touch and hold a widget on the home screen to move it.
- Touch and hold on a field to display a pop-up menu of options.

Sweep

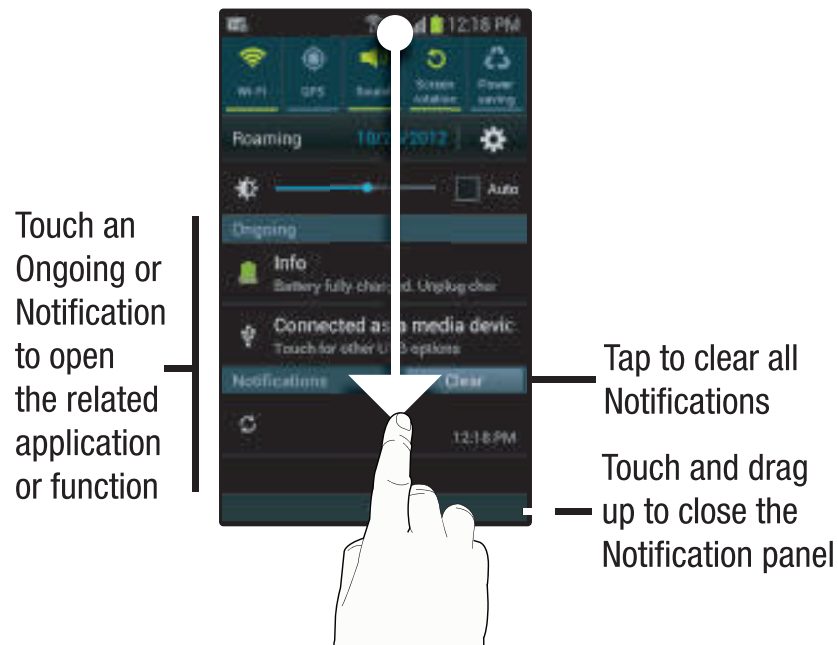
To sweep, lightly drag your finger vertically or horizontally across the screen. Use sweep when:

- Unlocking the screen
- Scrolling the Home screen or a menu

Notification Panel

The Notification Panel shows information about connections, messages and other items.

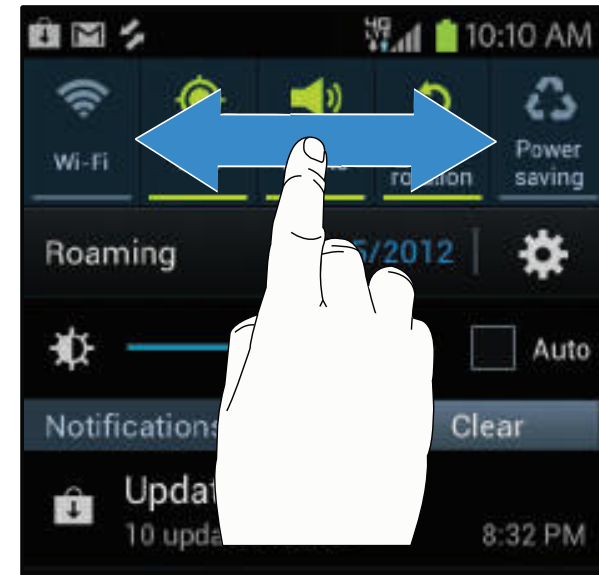
- Sweep your finger downward from the top of the screen. To close Notification Panel, touch the panel.



Status-Control Buttons

Buttons at the top of the Notification Panel show statuses for **Wi-Fi**, **GPS**, **Sound**, **Screen rotation**, **Power saving**, **Notification**, **Mobile data**, **Bluetooth**, **Driving mode**, and **Sync**.

- Enable or disable any of these features by touching the appropriate button.



Clearing Notifications

1. Sweep your finger downward from the top of the screen to display the Notifications Panel.
2. Touch **Clear** to clear all notifications.

Home Screen

The Home screen is the starting point for using your phone.



Note: Unless stated otherwise, instructions in this User Manual start with the phone unlocked, at the Home screen.

Extended Home Screen

The Home screen consists of the Home panel, plus 6 panels that extend beyond the display width to provide more space for adding shortcuts, widgets and folders.



Slide your finger horizontally across the screen to scroll to the left or right side panels. As you scroll, the indicator at the top of the display shows your current position.

Adding and removing Home screen panels

Your phone comes with 7 Home screen panels. You can remove any of these panels, and add them back whenever you wish.

1. Navigate to a Home screen panel, then touch  **Menu**.
2. Touch **Edit page**. An array of thumbnail images of the Home screen panels appears in the display.
3. To remove a panel, touch, hold, and drag the panel image to the **Remove** icon ().
4. To add a panel, touch .

Changing the Home panel

You can choose any of the available Home screen panels to be the Home panel.

1. Navigate to a Home screen panel, then touch  **Menu**.
2. Touch **Edit page**. An array of thumbnail images of the Home screen panels appears in the display.
3. To select a new Home panel, touch  on the desired panel. The background color changes to blue.

Primary Shortcuts

Primary Shortcuts appear at the bottom of the display. .

The default primary shortcuts are:.



Phone: Launches the Phone, to make calls. (For more information, refer to “*Making Calls*” on page 31.)



Contacts: Store and manage your contacts. (For more information, refer to “*Contacts*” on page 58.)



Messaging: Send and receive messages. (For more information, refer to “*Messaging*” on page 68.)



Internet: Launches Web browser. (For more information, refer to “*Internet*” on page 109.)



Apps: Access your phone’s applications. (For more information, refer to “*Accessing Applications*” on page 95.)

Customizing the Home Screen Panels

Customize the Home screen panels to suit your preferences.

- **Set wallpaper for:** For more information, refer to *“Changing Wallpaper on the Home/Lock Screen”* on page 29.
- **Apps and widgets:** For more information, refer to *“Adding Apps and Widgets to a Home Screen panel”* on page 30.
- **Folder:** For more information, refer to *“Adding Folders to a Home Screen panel”* on page 30.
- **Page:** For more information, refer to *“Adding and removing Home screen panels”* on page 28.

Changing Wallpaper on the Home/Lock Screen

Choose a picture to display in the background of the Home screen panels and/or the Lock screen. You can choose from pre-loaded wallpaper images (Live or fixed), or select a picture you’ve downloaded or taken with the Camera.

1. Navigate to the desired Home screen panel. (For more information, refer to *“Extended Home Screen”* on page 27.)
2. Touch and hold on the screen to display the **Home screen** menu, then touch **Set wallpaper for**, and select **Home screen/Lock screen/Home and lock screens**.
3. Choose a source for images:
 - **Gallery:** Access the Gallery to choose a downloaded picture or one taken with the Camera. Touch a picture to select it, then use the crop tool to edit the picture, if desired. Touch **Done** to save the picture as wallpaper.
 - **Live wallpapers:** Choose from pre-loaded animated wallpaper images. Touch a wallpaper, then touch **Set wallpaper**.
 - **Wallpapers:** Choose from pre-loaded wallpaper images. Touch a wallpaper, then touch **Set wallpaper**.

Adding Apps and Widgets to a Home Screen panel

Widgets are self-contained applications that you can place on the Home screen to access favorite features.

1. Navigate to the desired Home screen panel. (For more information, refer to “*Extended Home Screen*” on page 27.)
2. Touch and hold on the screen to display the **Home screen** menu.
3. Under **Add to Home screen**, touch **Apps and widgets**. The **Apps/Widgets/Downloads** screen appears.
4. Touch the **Apps/Widgets/**  **Downloads** tab.
5. Touch and hold the desired App or Widget, then drag it to the desired position on the selected Home screen panel.

(For more information about Apps or Widgets, see “*Applications and Widgets*” on page 95.)

Removing Apps or Widgets

- Touch and hold the App or Widget until  **Delete** replaces  **Apps**, then drag the App or Widget over  **Delete**.

Adding Folders to a Home Screen panel

Place Folders on the Home screen to group items (such as Apps) together on the Home screen.

1. Navigate to the desired Home screen panel. (For more information, refer to “*Extended Home Screen*” on page 27.)
2. Touch and hold on the screen to display the **Home screen** menu, then under **Add to Home screen**, touch **Folder**.
– or –
Touch  **Menu** → **Create folder**.
3. A blank folder icon () appears on the Home screen.
4. To name the folder, touch it. The **Unnamed folder** field pops-up.
5. Enter the desired folder name and touch **Done**. (For more information, refer to “*Entering Text*” on page 44.)

Removing Folders

- Touch and hold the Folder until  **Delete** replaces  **Apps**, then drag the Folder over  **Delete**.

Section 3: Call Functions

This section describes how to make, answer, or end calls. This section also describes your phone's features and functionality associated with making or answering calls.

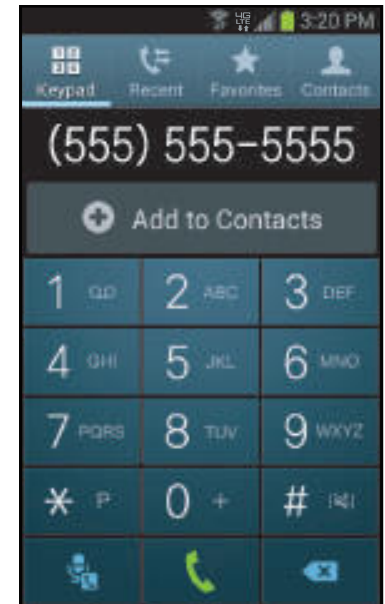
Making Calls

Your phone offers multiple ways to make calls:

- Use the touch screen **Keypad** to enter a telephone or speed dial number.
- Call a contact from **Contacts**.
- Speed dial using **Favorites**.
- Return a call, or call a recent caller using the **Call log**.
- Voice dial with **Voice Control**.

Making Calls Using the Phone Keypad

1. Press  **Home** →  **Phone**. The **Keypad** screen appears in the display.
2. Enter a telephone using the screen keypad. (To delete digits, touch .)
3. While dialing, you can touch  **Menu** to access the following number entry options:
 - **Speed dial setting**: Dial or assign Speed Dials.
 - **Add 2-sec pause**: Insert a 2-second pause in a telephone number.
 - **Add wait**: Insert a Wait pause in a telephone number, to pause dialing and wait for input from you.
4. Touch  to place the call.



For a complete list of Keypad screen menu options, see “*Keypad options*” on page 35.

Note: Touching  or  does not end a call. (For more information, refer to “Ending a Call” on page 37.)

Dialing Emergency Numbers

When you call an Emergency Number, such as 911, your phone locks itself in emergency mode, only allowing you to make calls to the emergency call center you originally contacted. This enables emergency operators to more easily dispatch aid.

1. Press  **Home** →  **Phone**.
2. Enter 911 using the touch keypad.
3. Touch  to place the call.

Note: The emergency number 911 is preset into your phone, and you can dial 911 at almost any time, even when the phone is locked, restricted, or in Airplane Mode.

When you call 911, an audible tone plays and an Emergency prompt appears in the display for the duration of the call. (For more information, refer to “Emergency tone” on page 153.)

Caution! DO NOT depend on this phone as a primary method of calling 911 or for any other essential or emergency communications. Because of transmission methods, network parameters, and user settings necessary to complete a call from your wireless phone, a connection cannot always be guaranteed. Therefore, emergency calling may not be available on all wireless networks at all times.

Making Calls using Speed Dials

Speed Dials are 1-, 2-, or 3-digit shortcuts (1 to 100) you assign to contacts, to allow you to quickly call the contact. (For more information, refer to “*Speed Dials*” on page 67.)

1. Press  **Home** →  **Phone**.
2. Touch the digits of the speed dial number on the phone **Keypad**, touching and holding the last digit until the number dials.

Making Calls from Contacts

A Contact is an entry that you have created to store the name, number(s), and other information for people, firms, or groups of interest. (For more information, refer to “*Contacts*” on page 58.)

1. Press  **Home** →  **Contacts**.
2. Find the desired Contact.
3. Sweep the Contact left to right to dial the default number for the Contact.

— or —

Touch the Contact to open it, then touch  to select a number to dial for the Contact.

Making Calls using S Voice

Place a call by speaking the name or number. (For more information, refer to “*S Voice*” on page 128.)

1. Press  **Home** →  **Phone** → **S Voice**. The phone displays “**What would you like to do?**” and prompts you to speak a command.
2. Speak one of the following commands:
Call <Name> or **Dial <Number>**

Making Calls using Favorites

Favorites are Contacts you designate as favorites by starring them, or Contacts you call frequently. (For more information about designating favorites, see “*Favorites*” on page 64.)

1. Press  **Home** →  **Phone**.
2. Touch  **Favorites** to display the list of your favorites.
3. Find the desired Favorite Contact.
4. Sweep the Contact left to right to dial the default number for the Contact.

— or —

Touch the Contact to open it, then touch  to select a number to dial for the Contact.

Making Calls from Call Log

Return a call, or call a number from a recent call stored in Call log. (For more information about Call log, see “*Call Log*” on page 37.)

1. Press  **Home** →  **Phone**.
2. Touch  **Recent** to display recent calls.
3. Find a call.
 - For a Contact call, touch the Contact photo ID square, then touch  to call the number in the desired call record.
 - For any call:
 - Swipe the call to the right.
 - Touch and hold the call, then touch **Call <number>**.
 - Touch the call, then touch  to call the number in the desired call record.

Three-Way Calling

Merge two calls to set up a three-way call between you and two other parties.

1. Establish a call, either by dialing or answering an incoming call.
2. Touch **Add Call**. The first call is placed on hold, and the phone **Keypad** appears.
3. Enter the second phone number, then touch .
4. Touch **Merge calls**. The two calls are joined into one, 3-way call.

Keypad options

- Press  **Home** →  **Phone**. The following options are available:
 - Touch and hold  **P** to add a 2-second pause to the number you've entered.
 - Touch and hold  **+** before entering an international number. Inserts “+” at the beginning of the number you are entering. The “+” is automatically replaced with the “011” international number dialing code after you touch .
 - Touch and hold   to enable/disable Silent mode.
 - Touch  to launch S Voice and vocally dial numbers and Contacts. (For more information, refer to “*Making Calls using S Voice*” on page 33.)
 - To dial a number, say “**Dial**” then say the digits of the number.
 - To dial a Contact, say “**Call**” then say the name of the Contact.

- Touch  **Menu** to access the following additional options:
 - **Send message**: Lets you send a text or multimedia message to the number you've entered by launching the **New message** screen with the number you've entered populating the **To** field.
 - **Add to Contacts**: Save the number you've entered to a new or existing Contact entry.
 - **Speed dial setting**: Assign a Speed dial number to the number you've entered.
 - **Add 2-sec pause**: Insert a 2-second pause in the number you've entered.
 - **Add wait**: Insert a Wait pause in the number you've entered, to pause dialing and wait for additional input from you.
 - **Call settings**: Launches the **Call settings** menu. (For more information, refer to “*Call settings*” on page 39.)

Answering Calls

To answer an incoming call:

- On the Incoming call screen, touch and drag  to the right.

Silencing an Incoming Call Ringtone

When your phone alerts you to an incoming call, you can silence the ringtone for the call. (For more information, refer to “*Ignoring a call*” on page 36.)

Sending Calls to Voicemail

When your phone alerts you to an incoming call, you can ignore the call to send the caller to voicemail, or reject the call and send a message to the caller.

Ignoring a call

When you ignore a call, the call is forwarded to voicemail.

- On the Incoming call screen, press the Volume key up or down. Your phone’s ringer stops and, after a number of rings (heard and/or silenced), the call is forwarded to voicemail.

Rejecting a call

When you reject a call, the call is answered by voicemail.

- On the Incoming call screen, touch and drag  to the left. Voicemail answers the call, prompting the caller to leave a voice message.

Rejecting a call with a message

You can reject an incoming call by sending the caller a text message. You can create a new message, or choose a message you previously created. (For more information about creating ignore text messages, see “*Set reject messages*” on page 40.)

1. On the Incoming call screen, touch and drag the **Reject call with message** tab upward.
2. Touch **Create new message**, then enter new text.
3. Touch **Send** to send the text message.

Answering Call-Waiting Calls

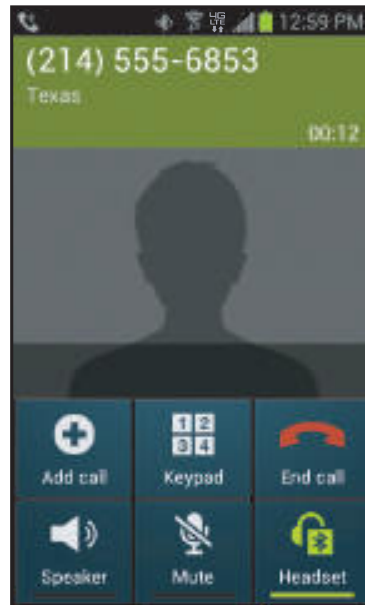
When you receive a call while on a call:

- Touch and slide **Answer** to answer the incoming call. The original call is placed on hold, and remains on hold until you end the second call, or swap calls back to the original call.
- Touch **Swap** to place a call on hold and return to the original call.

In-Call Options

While in a call, you can use these features:

- **Add call:** Display the Phone Dialer to set up a multi-party call.
- **End call:** End the phone call.
- **Keypad:** Display a dialpad to enter numbers.
- **Speaker:** Enable or disable speakerphone.
- **Mute:** Mute or unmute your voice on the call.
- **Bluetooth:** Switch the call's audio to a Bluetooth headset.

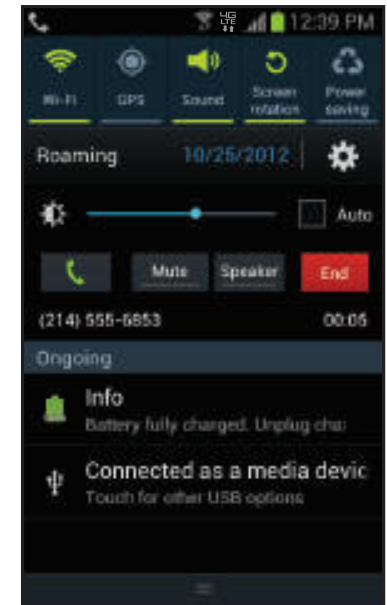


Ending a Call

- From the In-Call screen, touch .

From screens other than the In-Call screen, do the following:

1. Open the Notification Panel. (For more information, refer to “*Notification Panel*” on page 26.)
2. On the In-Call line, touch .



Tip: You can set your phone to end calls when you press the  **Power/Lock** key. (For more information, refer to “*Call answering/ending*” on page 41.)

Call Log

When you place, answer, or miss a call, a record of the call is saved in the Call log.

Accessing Call Log

- Press  Home →  Phone →  Recent.

Sending Messages using Call Log

1. Press  **Home** →  **Phone** →  **Recent**.
2. To create a new message to a phone number in the Call log, do one of the following:
 - Swipe a call record to the left.
 - Touch a call record, then touch .
 - Touch the photo ID field on a Contact call record, then touch  beside the number to receive the message.
 - Touch and hold on a call record, then select **Send message**.
3. Continue creating the message. (For more information, refer to “*Creating and Sending Messages*” on page 68.)

Creating or Updating Contacts Using Call Log

1. Press  **Home** →  **Phone** →  **Recent**.
2. Touch and hold on a call record, then select **Add to Contacts** from the pop-up menu.
3. Choose **Create contact** or **Update existing**.
4. Continue entering contact information. (For more information, refer to “*Creating Contacts*” on page 58.)

Managing the Call Log

Filtering Call log records

1. Press  **Home** →  **Phone** →  **Recent**.
2. While viewing the Call log, touch  **Menu**, then touch **View by**.
3. Select a filter type, from **All calls and messages**, **All calls**, **Missed calls**, **Dialed calls**, **Received calls**, **Rejected calls**, **All messages**, **Sent messages**, or **Received messages**.

Deleting Call log records

1. Press  **Home** →  **Phone** →  **Recent**.
2. While viewing the Call log, touch  **Menu**, then touch **Delete**.
3. Touch call records to mark them for deletion, or touch **Select all**. A check appears in the check box to show marked records.
4. Touch **Delete** to delete marked records.

Tip: You can also delete an individual call record by touching and holding a call record, then selecting **Delete**.

Viewing call durations

View the length of the Last call, all Dialed calls, all Received calls, or All calls.

1. Press  **Home** →  **Phone** →  **Recent**.
2. While viewing the Call log, touch  **Menu**, then touch **Call duration**.

The **Call duration** screen appears showing the **Last Call** duration and showing the **Dialed Calls**, **Received Calls**, and **All Calls** duration.

Voicemail

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

(For more information, refer to “*Voicemail*” on page 12.)

Call settings

Configure settings for calling with your phone.

- From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**. The **Call settings** screen appears.

Call rejection

Create and manage a list of phone numbers, to have your phone automatically reject calls you receive from those numbers.

- From the **Call settings** screen, touch **Call rejection**. The following options are available:
 - **Auto reject mode**: Touch **Auto reject mode**  to turn Auto reject On, or touch **Auto reject mode**  to turn Auto reject Off. When On, calls from numbers on the Auto reject list will be rejected.
 - Touch **Auto reject mode** to select whether to auto reject **All numbers** or to **Auto reject** numbers in the Auto reject list only.
 - **Auto reject list**: Enter telephone numbers to be rejected when Auto reject mode is ON. Turn on **Unavailable** to reject calls with no caller ID. Touch **Create**, then follow the prompts to enter numbers to reject, or select them from Contacts.

Set reject messages

Create and manage text messages to send to callers when you select **Reject call with message** in the **Incoming call** screen.

1. From the **Call settings** screen, touch **Set reject messages**.
2. Manage messages:
 - To create new messages, touch **Create**, then follow the prompts.
 - To modify an existing message, touch the message, then edit the text. (For more information, refer to “*Entering Text*” on page 44.)

Call alert

Set options for sounds and vibrations to occur during calls.

1. From the **Call settings** screen, touch **Call alert**.
2. Configure options:
 - **Call vibrations**: Enable **Vibrate on connection to network** to have your phone vibrate when it connects to the network. Enable on **Call-end vibration** to have the phone vibrate when the other caller ends the call.
 - **Call status tones**: Choose options for sounds to play during calls. Enable **Call connect tone** to have the phone play a tone when the other caller answers a call. Enable **Minute minder** to have a tone play once per minute during a call. Enable **Call end tone** to have the phone play a tone when the other caller ends the call. Touch **OK** to save the settings.
 - **Alerts on call**: Enable to have notifications for alarms and new messages play during phone calls. When disabled, these notifications will be muted during a call.

Call answering/ending

Manage settings for answering and ending calls.

1. From the **Call settings** screen, touch **Call answering/ending**.
2. Configure these options:
 - **Answering key**: When enabled, you can answer an incoming call by pressing  **Home**.
 - **The power key ends calls**: When enabled, pressing  **Power/Lock** ends a call.

Auto screen off during calls

When enabled, the screen automatically turns off during phone calls, and the proximity sensor on the front of the phone (see “*Light and Proximity Sensors*” on page 18) turns the screen back on when the phone is moved away from another surface, such as when you move the phone away from your ear.

- From the **Call settings** screen, touch **Auto screen off during calls** to enable or disable the option.

Accessory settings for call

Configure headset options for calls.

1. From the **Call settings** screen, touch **Accessory settings for call**.
2. Configure the following settings:
 - **Headset settings for incoming calls**:
 - **Automatic answering**: When enabled with a headset connected to the Headset Jack (see “*3.5mm Headset Jack*” on page 19), your phone automatically answers incoming calls after a delay determined by the **Automatic answering timer** setting.
 - **Automatic answering timer**: Choose a delay time before your phone automatically answers an incoming call when **Automatic answering** is enabled and a headset is connected to the phone.
 - **BT headset settings for outgoing calls**:
 - **Outgoing call conditions**: With your phone connected to a Bluetooth headset, you can choose to make calls even when your phone is locked.

Increase volume in pocket

When enabled, your phone uses its proximity sensor to detect when it is in a confined space (such as a pocket, a purse, or a protective carrier), your phone alerts you to incoming calls with increased ring volume.

- From the **Call settings** screen, touch **Increase volume in pocket** to enable or disable this option. When enabled, a check mark appears in the check box.

Additional settings

Noise reduction

When enabled, your phone uses both of its microphones to detect and suppress background noise during your calls.

- From the **Call settings** screen, touch **Additional settings** → **Noise Reduction** to enable or disable this option. When enabled, a check mark appears in the check box.

Voicemail

Configure options for voicemail.

- From the **Call settings** screen, under **Voicemail**, the following options are available:
 - **Voicemail service:** By default, your phone rolls unanswered or rejected calls to your wireless provider's voicemail service. If you have another option for voicemail installed on your phone, select it here.
 - **Voicemail settings:** By default, Speed Dial "1" calls your wireless provider's voicemail service. If you wish Speed Dial "1" to call another voicemail service, touch **Voicemail number** to set the number of that other voicemail service.
 - **Vibrate:** Choose for your phone to alert you of new voicemail message by **Always** vibrating, vibrating **Only in Silent mode**, or **Never** vibrating.

Other call settings

- From the **Call settings** screen, under **Other call settings**, the following options are available:
 - **Auto retry**: When enabled, automatically re-dials a number if the connection fails.
 - **TTY mode**: When enabled, allows you to use optional TTY or TDD equipment connected to your phone's Headset Jack. Choose whether TTY mode is disabled (**TTY Off**) or enabled (**TTY Full**, **TTY HCO**, or **TTY VCO**).
 - **DTMF tones**: Set the length of Dual-tone Multi-frequency tones, which play when you use the keypad during a call, such as when navigating phone menus.
 - **Voice privacy**: Enable or disable Enhanced voice privacy, to improve the security of phone calls.

Internet call settings

1. From the Home screen, touch  **Phone** →  **Menu** → **Call Settings**.
2. Configure options:
 - **Accounts**: Configure and manage Internet calling accounts. Touch **Receive incoming calls** to allow your phone to alert you of incoming Internet calls. When enabled, this option uses more battery power. Touch **Add account** to define your Internet calling account(s) to your phone.
 - **Use Internet calling**: Touch to use Internet calling **For all calls when mobile network available**, to use Internet calling **Only for Internet calls**, or to **Ask for every call**.

Section 4: Entering Text

This section describes how to enter words, letters, punctuation, and numbers when you need to enter text. Your phone provides an on-screen QWERTY keyboard to support quick and easy text input.

- On-screen keyboard, landscape



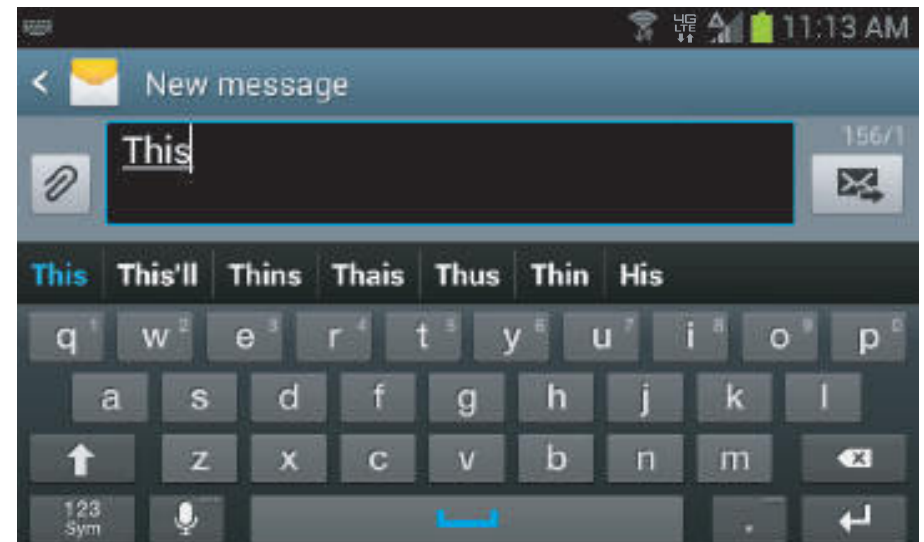
- On-screen keyboard, portrait



On-screen QWERTY Keyboard

Your phone provides an on-screen QWERTY keyboard for text entry. Touching the keyboard on the screen enters letters, punctuation, numbers, and other characters into text entry fields or applications. Access the on-screen keyboard by touching any text entry field.

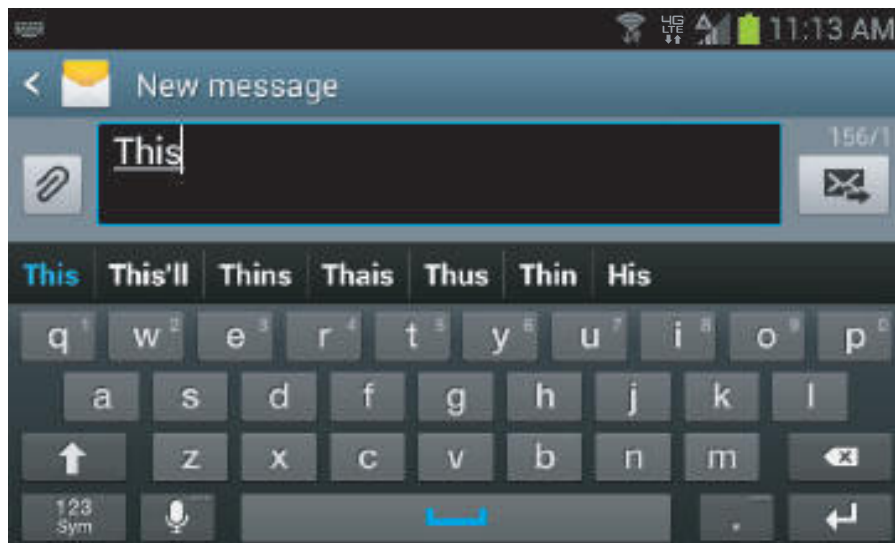
The on-screen QWERTY keyboard appears at the bottom of the screen. By default, when you rotate the phone, the screen orientation updates to keep the keyboard at the bottom of the screen.



Using the Samsung Keyboard

The Samsung Keyboard is a custom screen QWERTY keyboard, featuring predictive text and handwriting recognition. Input characters by touching the on-screen keys with your finger, or trace characters on the screen with your finger.

As you enter characters, predictive text matches your key touches to common words and displays them. Select a word from the display to insert it into your text.



Configuring the Samsung Keyboard

Configure the Samsung Keyboard to your preferences.

- While entering text, touch and hold , then select . The **Samsung keyboard settings** screen appears in the display.
- For more information, refer to “*Keyboards and input methods*” on page 167.

Note: In the **Samsung keyboard settings** screen, you can select which keyboard appears in Portrait orientation. Touch **Portrait keyboard types**, then select **Qwerty keyboard** or **3x4 keyboard**.

Changing the Text Input Mode – Keyboard

There are two main keyboard layout keys that will change the on-screen keys within the QWERTY keyboard.

The available Text Input modes are: **Sym** and **Abc**.



Symbol/Numeric Mode: activates the number, symbol, and emoticon keys.



Abc Mode: activates the default alphabet keys. Can also be set to **ABC** or **abc** by using the shift key (⬆).

Note: When in **Abc** mode, the **123/Sym** key appears. When in **Symbol** mode, the **ABC** key appears.

Using Abc Mode

1. If desired, rotate your phone counterclockwise to Landscape orientation.
2. Touch a text input field. The following keyboard appears in the display:



3. Touch the desired alphabetic characters.
4. To change capitalization for the Abc mode, touch the shift key (⬆). The shift key (⬆) will change to ⬆.
5. After typing the first letter, the shift key (⬆) will change to ⬆ and additional letters will be lowercase.
6. Touch ⬆ and hold to input another upper-case letter or touch ⬆ twice to switch to ABC mode. The shift key will change to ⬆ in ABC mode. Any additional letters will be uppercase, until you touch the shift key (⬆) again.

7. Touch  to send the message, or touch  for more options. (For more information, refer to “*Creating and Sending Messages*” on page 68.)

Using Symbol/Numeric Mode

Use Symbol/Numeric Mode to add numbers, symbols, or emoticons.

1. On the Samsung keyboard screen, touch  at the bottom of the screen. The following screen appears in the display:



2. Touch the desired number, symbol, or emoticon characters.
3. Touch the  button to cycle through additional pages.
4. Touch  to return to Abc mode.

Using T9 Predictive Text

T9 is a predictive text system that has next-letter prediction and regional error correction, that can compensate for pressing the wrong keys on QWERTY keyboards.

1. Touch and hold , then select . The **Samsung keyboard settings** screen displays.
2. Touch **Predictive text**  to enable T9 predictive text. When enabled, the slider changes to **Predictive text** .

3. Touch **Predictive text** to modify T9 associated settings. (For more information, refer to “*Keyboards and input methods*” on page 167.)

Note: The T9 option is available only when Abc mode has been selected.

4. Begin typing a word. A list of word options is displayed. Touch one of the words to replace the word that has already been typed.
5. Continue typing your message. Touch  to send the message, or touch  **Menu** for more options. (For more information, refer to “*Creating and Sending Messages*” on page 68.)

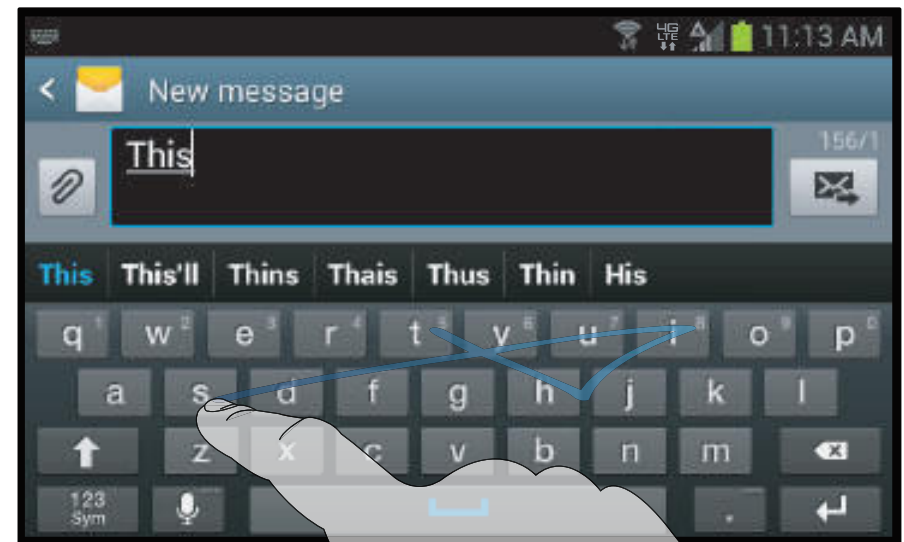
Note: You can also use **Predictive text** mode with your phone in portrait orientation.

Using Continuous input

The Continuous input text input method lets you enter words by gliding your finger over the virtual QWERTY keyboard, lifting your finger between words.

1. Touch and hold , then select . The **Samsung keyboard settings** screen displays.
2. Touch **Continuous input** to enable/disable the keyboard's ability to accept sliding your finger across it as text input. When enabled, a check mark appears in the check box.

3. To enter a word on the Samsung keyboard (at the bottom of a text input screen), touch the first letter of the word and slide your finger across succeeding letter keys. Stop and lift your finger at the last letter key.



Using the Google Voice Typing Feature

You can use your voice to enter text using the Google Voice typing feature.

1. From the keypad, touch the top of the screen and drag it down to display your notification panel.
2. Touch **Select input method**.
3. Touch **Google voice typing**.
4. At the **Listening** prompt, speak clearly and distinctly into the microphone.
5. The text is displayed in the message as you are speaking.
6. Touch **Done** when you are finished.

Note: This feature works best when you break up your message into smaller segments.

Using Handwriting

You can use your finger to trace words and numbers on the screen. Your phone converts your handwriting into typewritten text in a text entry field.

1. Touch and hold , then select . The **Samsung keyboard settings** screen appears.
2. Touch **Handwriting**  to enable Handwriting recognition. When enabled, the slider changes to **Handwriting** .
3. Touch  to return to the text entry screen.
4. Touch and hold , then select . A handwriting entry frame replaces the keyboard at the bottom of the screen.
5. Use your finger to write text in the handwriting entry frame. The typewritten translation of your handwriting appears in the text entry field.

Section 5: Accounts and Contacts

This section explains how to manage your accounts and contacts.

Accounts

Your phone provides the ability to synchronize information from a variety of accounts, including Samsung, Google, and Microsoft Exchange® ActiveSync. With synchronization, you can ensure that information on your phone is updated with any information that changes in your accounts, including Contacts information.

Note: You must register your phone with your social network site before using the phone to access the networks.

With Microsoft Exchange and Google accounts you can synchronize Email and Calendar events as well as Contacts.

Tip: For more information on setting up your account(s), contact your Wireless Provider and your E-mail Service Provider.

For information about setting up other, non-synchronized email accounts, see “*Configuring Email Accounts*” on page 76.

Adding a Samsung Account

1. Press  **Home** →  **Menu**, then touch **Settings** → **Accounts and sync**.
2. Touch **Add account** →  **Samsung account**.
3. At the **Samsung account** screen, touch one of the following options:
 - **Create new account:** Follow the prompts to create a new account.
 - **Sign in:** Enter your existing Samsung account **Email** and **Password**, then touch **Sign in**.
4. The phone communicates with the Samsung server to set up your account. When complete, your Samsung account appears in the **Accounts and sync** screen.

Adding a Google account

1. Press  **Home** →  **Menu**, then touch **Settings** → **Accounts and sync**.
2. Touch **Add account** →  **Google**.
3. At the **Add a Google Account** screen, touch an option:
 - **Existing**: Enter your Google **Username** and **Password**, then touch **Sign in**.
 - **New**: Follow the prompts to create a new account.
4. The phone communicates with the Google server to set up your account. When complete, your Google account appears in the **Accounts and sync** screen.

Tip: For information on changing your Gmail account settings, see “*Gmail account settings*” on page 74.

Managing a Google account

1. Press  **Home** →  **Menu**, then touch **Settings** → **Accounts and sync**.
2. Touch your Google account to show the **Data & synchronization** menu.
3. Touch a setting to enable or disable synchronization. When enabled, a check mark becomes highlighted in the check box:
 - **Sync Calendar**: When enabled, synchronizes your Google calendar with your phone.
 - **Sync Contacts**: When enabled, synchronizes your Google contacts with your phone's Contacts.
 - **Sync Gmail**: When enabled, synchronizes your Gmail messages on your phone.
 - **Sync Google Photos**: When enabled, synchronizes your Gallery photos with your online Google Photos.
 - **Sync Google Play Books**: When enabled, synchronizes your Play Books ebooks with your phone's ebooks.
 - **Sync Google Play Magazines**: When enabled, synchronizes your Google magazines on your phone.

- **Sync Google Play Movies:** When enabled, synchronizes your Google movies and television series episodes on your phone.
- **Sync Google Play Music:** When enabled, synchronizes your Play Music songs with your phone's songs.
- **Sync Internet:** Synchronize internet details from your device with your Samsung account.
- **Sync Picasa Web albums:** When enabled, synchronizes photos in your Picasa Web albums with photos on your phone.

Adding an LDAP Account

An LDAP (Lightweight Directory Access) account lets you access a directory server. (For assistance in configuring an LDAP account, contact the support personnel for the LDAP server you wish to access.)

1. Press  **Home** →  **Menu**, then touch **Settings** → **Accounts and sync**.
2. Touch **Add account** →  **LDAP**. The following options are available:
 - **Server:** Name of the LDAP server you want to access.
 - **BaseDN:** Base Distinguished Name.
 - **Port:** LDAP server port number (default value is **389**).
 - **User name:** LDAP server account name.
 - **Password:** LDAP server account access password.
 - **Anonymous:** When enabled, hides your User name.
 - **Show password:** When enabled, displays the **Password** option entry.
 - **Use SSL:** When enabled, activates the Secure Sockets Layer when accessing the LDAP server.
3. Touch **Verify**.

Adding an Email account

Select the **Email account** option to add email accounts not added by other account options.

(For more information, refer to “*Configuring Email Accounts*” on page 76.)

- Press  **Home** →  **Menu**, then touch **Settings** → **Accounts and sync** → **Add account** →  **Email**.

– or –

- Press  **Home** →  **Email** →  **Menu** → **Settings** →  **Add account**.

The **Set up email** screen appears. (For more information, refer to “*Configuring Email Accounts*” on page 76.)

Adding a Microsoft Exchange® account

The **Corporate** option lets you directly access a Microsoft Exchange server account.

Note: Before adding a Microsoft Exchange account, obtain the exact server Exchange Domain name from your company’s Network Support.

1. Press  **Home** →  **Menu**, then touch **Settings** → **Accounts and sync**.
2. Touch **Add account** →  **Microsoft Exchange ActiveSync**.
3. At the **Add Exchange account** screen, enter your **Email address** and **Password**, then touch **Done** → **Next**.
4. At the **Exchange server settings** screen, enter server settings, then touch **Next**. The phone communicates with the server to confirm your account.
5. At the **Account options** screen, select account settings, then touch **Next**.

6. At the **Set up email** screen, enter a name for the account (this name will display on screen), and enter your name to appear on outgoing messages. Touch **Done** to complete set-up.
7. Your Corporate account appears in the **Manage accounts** area of the **Accounts and sync** screen, and in the Email application.

Managing a Microsoft Exchange account

1. Press  **Home** →  **Menu**, then touch **Settings** → **Accounts and sync**.
2. Touch your Microsoft Exchange ActiveSync account to display settings, then touch **Settings** for these settings:
 - **General preferences:**
 - **Auto-advance:** Select the screen shown after deleting a message (Newer message, Older message, or Message list).
 - **Message preview line:** Select the number of text lines from a message to display in the Message list.
 - **Email title:** Select which message line's contents will appear as the title for a message in the Message list (Subject or Sender).
 - **Confirm deletions:** When enabled, prompts you to confirm deletion of messages you choose to remove from a folder.
 - **Quick responses:** Edit or add frequently-used pre-composed text for insertion in your messages.

- **Common settings** (touch your Added account to access these settings):

- **Account name:** Enter a name to identify the account.
- **Signature:** When enabled, appends your pre-composed **Signature** to your send email messages. Touch the **Signature**  slider to turn Signature On, or touch **Signature**  to turn Signature Off.

Touch the **Signature** option to enter or change your pre-composed signature.

- **Default account:** Touch to assign or un-assign this account as the default account for sending email from your phone.
- **Always Cc/Bcc myself:** Always send a copy of your outgoing emails to yourself.
- **Forward with files:** When enabled, includes copies of any attached files when forwarding a copy of a message.
- **Show images:** When enabled, automatically downloads images inserted in received messages and displays the images when you open the messages.

- **Data usage:**

- **Auto download attachments:** When enabled, automatically downloads attachments to messages only when your phone is connected to a Wi-Fi hotspot.

- **Exchange ActiveSync settings**

- **Period to synch Email:** Choose a time period to determine how many days' email will synchronize.
- **Empty server trash:** Removes deleted files from the email server's trash folder.
- **Sync schedule:** Choose a frequency for the phone to check the server for new emails.
- **Out of office settings:** Select whether to send a pre-composed message to originators of Internal and/or External email messages.
- **Size to retrieve emails:** Select how much of each incoming email message (in Kilobytes or All) to initially download from the email server.
- **Period to sync Calendar:** Choose a time period to determine how many Calendar days' to synchronize.
- **Security options:** Set advanced email security options (encryption, sign, S/MIME certificate, types of email message contents to accept or reject).

- **In case of sync conflict:** Allows you to assign the master source on emails. If there is a conflict with the current email sync you can assign the server as the main source for all emails (**Update to phone**) or assign the phone to be the main source and update the server accordingly (**Update to server**).
- **Auto resend times:** Select how many times to attempt to resend a message.

- **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.

- **Server settings**

- **Exchange server settings:** Modify server settings.
- **Sync Email:** Enable to synchronize Email in your Exchange network folders with Email on your phone.
- **Sync Contacts:** Enable to synchronize your Exchange contacts with your phone's Contacts.
- **Sync Calendar:** Enable to synchronize your Exchange calendar with your phone's calendar.
- **Sync Task:** When active, synchronizes your Exchange task list with your phone's task list.

3. Under **Data & synchronization**, configure these settings:

- **Sync Calendar:** When enabled, synchronizes your Exchange contacts with your phone.
- **Sync Contacts:** When enabled, synchronizes your Exchange contacts with your phone's Contacts.
- **Sync Email:** When enabled, synchronizes your Exchange Email folders' contents with your phone's Email contents.
- **Sync Tasks:** When enabled, synchronizes your Exchange tasks with your phone's tasks.

Contacts

To access Contacts:

- Press  **Home** →  **Contacts** →  .
- or –
- Press  **Home** →  **Phone** →  .

Creating Contacts

1. Press  **Home**, then touch  **Contacts** →  →  .
2. Select a storage location: **Phone**, **Google**, or other account (such as personal or business e-mail).
3. Touch contact fields to enter information:
 - Touch  to choose or take a picture to identify the contact. (For more information, refer to “*Gallery*” on page 93.)
 - Touch **Name**, then enter a name for the contact. Touch  to enter a Name prefix, First name, Middle name, Last name, or Name suffix.
 - Touch **Phone number** to enter a phone number, then touch the label button (for example, **Mobile**) to choose a label from **Home**, **Mobile**, **Work**, **Work Fax**, **Home Fax**, **Pager**, **Other**, **Custom**, or **Callback** to create a custom label. To add another number, touch  .

- Touch **Email address** to enter an email address, then touch the label button (for example, **Work**) to choose a label from **Home**, **Work**, **Other**, or **Custom** to create a custom label. To add another address, touch .
 - Touch **Address** to enter a **Home**, **Work**, **Other**, or **Custom** street and/or postal address.
 - Touch **Events** to enter a **Birthday**, **Anniversary**, **Other**, or **Custom** Date.
 - Touch **Groups** to assign the contact to one or more contact groups. (For more information, refer to “*Groups*” on page 65.)
 - Touch **Ringtone** to choose a ringtone for the contact.
 - Touch **Vibration pattern** to choose or create a vibration pattern for the contact.
 - To add a **Phonetic name**, **Organization**, **IM** address, **Notes**, **Nickname**, **Website** address, or **Relationship** to this contact entry, touch **Add another field**.
4. When you finish entering information, touch **Save**.

Creating Contacts from Call log

Save a phone number from a recent call record to create a new contact, or update an existing contact. (For more information, refer to “*Creating or Updating Contacts Using Call Log*” on page 38.)

Creating Contacts from the Phone Keypad

Enter a phone number with the Phone Keypad, then save it.

1. Press  **Home** →  **Phone**.
2. Touch the digits of the phone number on the keypad. (For more information, refer to “*Making Calls Using the Phone Keypad*” on page 31.)
3. Touch **Add to Contacts**.
– or –
Touch  **Menu** → **Add to Contacts**.
4. Select **Create contact** from the pop-up menu.
5. Continue entering contact information. (For more information, refer to “*Creating Contacts*” on page 58.)

Updating Contacts

Make changes to update an existing contact.

1. Press  **Home** →  **Contacts**.
2. Touch a contact to view its information, then touch  **Menu** → **Edit**.
– or –
Touch and hold on a contact, then select **Edit** from the pop-up menu.
3. Continue entering contact information. (For more information, refer to “*Creating Contacts*” on page 58.)

Updating Contacts from the Phone Dialer

Enter a phone number with the Phone Dialer keypad, then save it.

1. Press  **Home** →  **Phone**.
2. Touch the digits of the phone number on the keypad.
3. Touch **Add to Contacts**, then select **Update existing** from the pop-up menu.
4. Select a contact to update, then touch **Save**, or continue entering contact information. (For more information, refer to “*Creating Contacts*” on page 58.)

Updating Contacts from Call log

Save a phone number from a recent call record to create a new contact, or update an existing contact. (For more information, refer to “*Creating or Updating Contacts Using Call Log*” on page 38.)

Accounts

Use the Accounts feature to sync with your accounts. You can choose from an account you’ve already set up on your phone, or set up a new account.

(For more information about setting up accounts on your phone, see “*Accounts*” on page 51.)

1. Press  **Home** →  **Contacts**.
2. Touch  **Menu** → **Accounts**.
3. Touch **Add Account**, then touch an account.
4. Touch  **Menu** → **Sync now**.

Contacts to display

1. Press  **Home** →  **Contacts**.
2. Touch  **Menu** → **Contacts to display** to filter your Contacts list and/or to set **Customized list** options:
 - **All contacts:** Displays all Contacts stored on your phone and synchronized with your phone.
 - Google or other account contacts: Displays Contacts only from a selected account.
 - **Phone:** Displays your Contacts stored on your phone.
 - **Customized list:** Displays selected Contacts for selected accounts and/or Contacts saved on your phone.
 - To choose accounts and additional Contacts display categories, touch .
 - To save options, touch **Done**.

Joined Contacts

Your phone can synchronize with multiple accounts, including Google, Microsoft Exchange, and other email providers, plus social networking sites like Facebook and Twitter. When you synchronize contacts from these accounts with your phone, you may have multiple contact entries for one person.

Joining imported contact records to a phone contact allows you to see all the contact's numbers and addresses together in one Contact entry. Joining also helps you keep your contacts updated, because any changes made to their information in the joined accounts are automatically updated the next time you synchronize with those accounts.

Note: Phone contacts are always the primary contact for joining. You can join imported contacts to a Phone contact, but the Phone contact will always display; the imported contact information will show as the joined contact.

Joining contacts

1. Press  **Home** →  **Contacts**.
2. Touch a contact to display its information.
3. Touch , then touch **Join another contact**.
– or –
Touch  **Menu** → **Join contact**.
4. Touch another contact entry to join it to the selected contact.

Separating joined contacts

1. Press  **Home** →  **Contacts**.
2. Touch a contact to display its information.
3. Touch  to display the joined contacts.
4. Touch  on a contact to separate it. You are prompted to confirm the separation.
5. Touch **OK**.

Sending Namecards

You can send a contact's information as a namecard over a Bluetooth connection to another Bluetooth device, or as an attachment to a Gmail message.

Important! Not all Bluetooth devices will accept contact information. Check the target device's documentation.

Sending a Namecard

1. Press  **Home** →  **Contacts**.
2. Touch a contact to display its information.
3. Touch  **Menu** → **Share namecard via**.
4. At the prompt, choose a sending method, then follow the prompts to send the namecard:
 - **Bluetooth:** For more information, refer to “*Bluetooth*” on page 84.
 - **Email:** This option appears only if you define an Email account to your phone. (For more information, refer to “*Adding a Microsoft Exchange® account*” on page 54 and see “*Composing and Sending Email*” on page 78.)
 - **Gmail:** For more information, refer to “*Composing and Sending Gmail*” on page 73.
 - **Messaging:** For more information, refer to “*Creating and Sending Messages*” on page 68.
 - **Wi-Fi Direct:** For more information, refer to “*Wi-Fi Direct*” on page 92.

Exporting and Importing Contacts

You can send multiple contacts’ information as namecards over Bluetooth connections to other Bluetooth devices, or as attachments to Email or Gmail messages.

Important! Not all Bluetooth devices will accept contacts, and of those that do, not all devices support transfers of multiple contacts. Check the target device’s documentation.

1. Press  **Home** →  **Contacts**.
2. Touch  **Menu** → **Import/Export** → **Share namecard via**.
3. Touch contacts to mark them for sending, or touch **Select all** to mark all contacts. A check mark appears in the check box for marked contacts.
4. Touch **Done**.
5. At the prompt, choose a sending method, then follow the prompts to send the namecard. (For more information, see Step 4 of “*Sending a Namecard*”.)

Favorites

Mark existing contacts with a star to identify them as Favorites.

Favorites display on the Favorites tab in the Phone keypad, for fast dialing or messaging, and are indicated by the ★ in Contacts.

Creating Favorites

1. Press  **Home** →  **Contacts**.
2. Touch and hold on a contact, then select **Add to Favorites** from the pop-up menu.
– or –
Touch a contact to display it, then touch the ★ **Star** at the top right of the screen.

My Contact Record

In your Contacts list, you have your own contact record. You can share it as a Namecard over a Bluetooth or Wi-Fi Direct connection or as an attachment to a message or Email.

Viewing My Contact Record

1. Press  **Home** →  **Contacts**.
2. Touch the contact entry under **ME** to display your contact information.
3. To add information to your contact entry, touch  **Menu** → **Edit**. (For more information, refer to “*Creating Contacts*” on page 58.)

Sending My Profile

You can send My Profile as a Namecard over a Bluetooth or Wi-Fi Direct connection or as an attachment to a message or Email.

1. Press  **Home** →  **Contacts**.
2. Touch the contact entry under **ME** to display your contact information.
3. Touch  **Menu** → **Share namecard via**.
4. At the prompt, choose a sending method, then follow the prompts to send the namecard. (For more information, see Step 4 of “*Sending Namecards*” on page 62.)

Groups

Assign contacts to Groups to make searching for contacts faster, or to quickly call or send messages to group members.

Accessing Groups

- Press  **Home** →  **Contacts** → **Groups**.

Creating a New Group

1. Press  **Home** →  **Contacts** → **Groups**.
2. Touch  **Menu** → **Create**.
3. Touch the **Group name** field to enter a Group name.
4. Touch **Group ringtone** to choose a ringtone for calls from members of this group. Touch **Default**, **Ringtones**, or **Go to My Files** to select a new ringtone.
5. Touch **Save** to save the new group.

Editing a Group

1. Press  **Home** →  **Contacts** → **Groups**.
2. Touch a Group to display it.
3. Touch  **Menu** → **Edit**.
4. Touch the **Group Name** field to change the Group Name.
5. Touch **Group ringtone** to choose a ringtone for calls from members of this group. Touch **Default**, **Ringtones**, or **Go to My Files** to select a new ringtone.
6. Touch **Save** to save the new group.

Deleting a Group

1. Press  **Home** →  **Contacts** → **Groups**.
2. Touch  **Menu** → **Delete**.
3. Touch a group to mark it for deletion, or touch **Select all** to mark all groups. When selected, a check mark appears in the check box.
4. Touch **Delete** to delete the group(s).
5. At the prompt, touch **Group only** or **Group and group members**.

Adding Contacts to a Group

Tip: You can also add a contact to a group when you create the contact. (For more information, refer to “*Creating Contacts*” on page 58.)

1. Press  **Home** →  **Contacts** → **Groups**.
2. Touch a **Group** to display it, then touch .
3. Touch contact(s) to mark them for addition, or touch **Select all** to mark all contacts. When selected, a check mark appears in the check box.
4. Touch **Done** to add the selected contact(s).

Removing Contacts from a Group

Tip: You can also add a contact to a group when you edit the contact. (For more information, refer to “*Updating Contacts*” on page 60.)

1. Press  **Home** →  **Contacts** → **Groups**.
2. Touch a **Group** to display it.
3. Touch  **Menu** → **Remove member**.
4. Touch contact(s) to mark them for removal, or touch **Select all** to mark all contacts. When selected, a check mark appears in the check box.
5. Touch  to remove the selected contact(s).

Sending a Message to Group Members

1. Press  **Home** →  **Contacts** → **Groups**.
2. Touch a **Group** to display it.
3. Touch  **Menu** → **Send Message**.
4. Touch contacts to mark them as recipients for the new message, then touch **Done**.
5. The new message opens, with the marked contacts as recipients. Continue creating the message, as desired. (For more information, refer to “*Creating and Sending Messages*” on page 68.)

Speed Dials

Speed Dials are 1-, 2-, or 3-digit shortcuts (1 to 100) you assign to contacts, to allow you to quickly call the contact.

Note: Some Speed Dials are reserved by default, and cannot be assigned:

Speed Dial 1 is reserved for Voicemail.

Assigning Speed Dials

1. Press  **Home** →  **Contacts**.
2. Touch  **Menu** → **Speed dial setting**. A list of speed dial numbers appears in the display.
3. Touch a speed dial, then touch a Contact to assign the contact to the speed dial.

Removing or Reassigning a Speed Dial

1. Press  **Home** →  **Contacts**.
2. Touch  **Menu** → **Speed dial setting**.
3. Touch  **Menu**, then touch an option:
 - **Remove:** Touch a speed dial to remove it.
 - **Change order:** Touch and hold a speed dial, then drag it to a new location in the list.

Section 6: Messaging

This section describes how to send and receive messages, and how to use other features associated with messaging.

Types of Messages

Your phone supports these types of messages:

- **Text messages:** Send and receive simple messages containing text to other mobile phones or email addresses (also known as SMS).
- **Multimedia messages:** Send and receive messages with videos or pictures and/or sound to other mobile phones or email addresses (also known as MMS).
- **Email:** Send and receive email from your email accounts, including Microsoft Exchange[®] mail.
- **Gmail:** Send and receive Gmail from your Google account.
- **Google Talk:** Chat with other Google Talk users.

Note: Messaging service availability depends on your network and service plan. Contact your Wireless Provider for more information.

Text and Multimedia Messaging

Your phone can send and receive text and multimedia messages to other mobile phones and to email addresses.

Creating and Sending Messages

1. Press  **Home**, then touch  **Messaging** →  **New message**.
2. Touch the **To** field, then enter or select recipients:
 - **Enter Contacts by name:** As you enter the first few characters of a name, matching contacts appear on screen. Touch a contact to add it to the list of recipients. (You can also find and select Contacts by touching  → **Contacts**.)
 - **Enter phone numbers:** As you enter the first few digits of a number, matching contacts appear. Finish entering the number or touch a contact to add it to the list.
 - **Enter email addresses:** As you enter addresses, matching contacts appear on screen. Touch a contact to add it to the list.
 - **Add phone numbers from Call log:** Touch  → **Recent**, touch the desired calls, then touch **Done** to add their numbers to the list of recipients.)

- **Address the message to a Contacts Group:** Touch  → **Groups**, then select the desired Group and the desired contacts. (For more information, refer to “*Sending a Message to Group Members*” on page 67.)
3. Touch the **Enter message** field and compose your message. While composing a message, touch  **Menu** for these options:
- **Insert smiley:** Add a text emoticon to the message.
 - **Add Text:** Insert Contact information, Calendar event information, or Memo text into this message.
 - **Preview:** View this message as the recipient(s) will see it.
 - **View contact:** View contact information for the recipient(s).
 - **Add slide:** Add or remove a slide. Slides hold pictures or other media (adding a slide converts the message to MMS).
 - **Add subject:** Add a subject field to the message and enter a subject. (This option also converts the message to MMS.)
 - **Duration:** Set the time the current slide of this message will appear in the screen.
 - **Layout:** Choose whether the text appears on the top or bottom of this message.
 - **Discard:** Cancel the message.
4. To add content to the message, some of which convert it to MMS, touch .
- **Images:** Add a picture.
 - **Take picture:** Take a new picture.
 - **Video:** Add a video.
 - **Record video:** Record a new video.
 - **Audio:** Add a sound clip.
 - **Record audio:** Create a new audio clip.
 - **Memo:** Add memo text.
 - **Calendar:** Add a Calendar Event text.
 - **Location:** Add location information.
 - **Contacts:** Add Contact entry information.
5. Touch  to send the message.

Managing Messages

Threaded View

Messages you send and receive to the same Contact, number, or address are grouped together as a “thread”. Threaded messages allow you to see all the messages you exchanged with a Contact or other recipient, with the latest message displayed first.

1. Press  **Home** →  **Messaging**.
2. Message threads display by contact, number, or address. While viewing message threads, you have these options:
 - Touch and hold a thread to choose from:
 - **View contact / Add to contacts**: View the contact record, or save the sender/recipient's information as a new contact, or to update an existing contact.
 - **Delete thread**: Erase the entire message thread.

- Touch  **Menu** for these options:
 - **Search**: Enter characters to search messages and recipient lists.
 - **Settings**: Configure message settings.
 - **Delete threads**: Touch message threads to mark them for erasure, or touch **Select all** to mark all message threads for erasure.

Message Settings

Configure message settings.

1. Press  **Home** →  **Messaging**.

2. Touch  **Menu** → **Settings** to set:

- **Display:**

- **Bubble style:** Choose the color and shape of the sent and received message bubbles.
- **Background style:** Choose the type of background to appear behind the message bubbles.
- **Use the volume key:** When enabled, you can use the Volume key to change the size of the message text.

- **Storage settings:**

- **Delete old messages:** Touch to enable or disable automatic erasure of messages when stored message reach default limits. When disabled, the phone will prompt you to delete old messages to make room.
- **Text message limit:** Touch to set a limit for the number of text messages per thread.
- **Multimedia message limit:** Touch to set a limit for the number of multimedia messages per thread.
- **Set text templates:** Create, change, or delete precomposed text for use in composing messages.

- **Text message (SMS) settings:**

- **Delivery reports:** When enabled, requests a report of delivery date and time for each text message sent.

- **Multimedia message (MMS) settings:**

- **Delivery reports:** When enabled, requests a report of delivery date and time for each multimedia message sent.
- **Auto-retrieve:** Touch to enable or disable automatic retrieval of MMS messages. When enabled, MMS messages download automatically. When disabled, the phone prompts to download new MMS messages.
- **Roaming auto-retrieve:** Touch to enable or disable automatic retrieval of MMS messages when in Roaming mode. When enabled, MMS messages download and display automatically. When disabled, the phone prompts you to download new MMS messages.
- **Alert when mode changes:** When enabled, an alert appears on the status bar at the top of the screen when the Messaging mode changes.

- **Notification settings:**

- **Notifications:** Touch to enable or disable alerts in the status bar.
- **Select ringtone:** Touch to select a ringtone for message alerts.
- **Vibrate:** Touch to enable or disable vibration for message alerts.

- **Emergency message settings:**

- **Emergency Alerts:** Choose which Emergency message alerts will appear on your phone.
- **Emergency notification preview:** Plays a sample emergency alert tone.
- **Vibrate:** When enabled, your phone vibrates when it receives an emergency message.
- **Alert sound:** When enabled, your phone plays a emergency alert tone it receives an emergency message.
- **Alert reminder:** Choose whether or how often your phone will remind you of a received emergency message.

Gmail

Send and receive emails using Gmail, Google's web-based email.

- Press  **Home** →  **Apps** →  **Gmail**.

Configuring Your Gmail Account

Set up your Google account to synchronize contacts, calendars, and allow access to Gmail. (For more information, refer to “Adding a Google account” on page 52.)

Refreshing Your Gmail Account

Refresh your account to update your phone from the Gmail servers.

1. Press  **Home** →  **Apps** →  **Gmail**.
2. Touch  **Menu**, then touch **Refresh**.

Composing and Sending Gmail

1. Press  **Home** →  **Apps** →  **Gmail** →  **Compose**.
2. Touch the **To** field to enter recipients. As you enter names or numbers, matching contacts display. Touch a contact to add it to the field.
3. Touch the **Subject** field to enter a subject.
4. Touch the **Compose email** field to enter the text of your email.
5. While composing a message, touch  **Menu** for these options:
 - **Attach file**: Launch Gallery to select a picture to add to the message.
 - **Add Cc/Bcc**: Create Cc (copy) and Bcc (blind copy) fields to the message. After creating the fields, touch to enter recipients.
 - **Save draft**: Close the message and save it in Drafts.
 - **Discard**: Close the message without saving.
 - **Settings**: Choose values for General settings and for your Gmail account settings.
 - **Help**: Show help information.
 - **Send feedback**: Launches the About Gmail web page.
6. Touch  **Send** to send the message.

Gmail account settings

1. Press  **Home** →  **Apps** →  **Gmail**.
2. Touch  **Menu**. The following options are available:

Label settings:

- **Sync messages:** Select how many days worth of your Gmail messages to synchronize between your phone and your on-line account (Sync: None, Sync: Last 30 days, or Sync: All).
- **Email notifications:** When enabled, your phone notifies you of new Gmail messages on the Alert line and in the Notifications screen, and lets you select values for the following additional notification settings:
 - **Ringtone:** Select the ringtone to play when you receive new Gmail messages.
 - **Vibrate:** Choose whether your phone Always vibrates, vibrates Only in silent mode, or Never vibrates when you receive new Gmail messages.
 - **Notify once:** When enabled, you phone notifies you only once for new Gmail messages, not every time you receive one.

Settings → General settings:

- **Confirm before deleting:** When enabled, Gmail prompts you to confirm message deletions.
- **Confirm before archiving:** When enabled, Gmail prompts you to confirm archiving messages.
- **Confirm before sending:** When enabled, Gmail prompts you to confirm you want to send a message.
- **Message Actions:** Select how your phone is to display message actions (Always show, Only show in portrait, or Don't show).
- **Reply all:** Enable/disable “Reply all” as default response to all messages.
- **Auto-advance:** Select which screen appears after you delete or archive a conversation.
- **Message text size:** Select Tiny, Small, Normal, Large, or Huge text size.
- **Hide checkboxes:** When enabled, Gmail requires you to touch and hold a message or conversation to select it for deletion or archiving.
- **Message actions:** Choose whether to Always show Message actions at the top of the screen, Only show them in portrait orientation, or Don't show Message actions.

- **Clear search history:** Remove previous searches you have performed.
- **Hide pictures in messages:** Gmail doesn't display pictures in messages until you allow it by sender.

Settings → Gmail Account (select a Gmail account from within the **Settings** screen):

- **Priority Inbox:** When enabled, your Gmail account is the default account for sending Email messages.
- **Email notifications:** When enabled, your phone notifies you of new Gmail messages on the Alert line and in the Notifications screen, and lets you select values for the following additional notification settings:
 - **Ringtone & vibrate:** Select Ringtone, Vibrate, and Notify once preferences.
- **Signature:** Enter text you want appended to your outgoing Email messages.
- **Gmail sync is ON / OFF:** Change sync settings for this account or remove this account.
- **Days of mail to sync:** Select how many days worth of your Gmail messages to synchronize between your phone and your on-line account (default is 30 days).
- **Manage labels:** Choose which Gmail labels are synched and trigger notifications.
- **Download attachments:** When enabled, automatically downloads Gmail message attachments when an active Wi-Fi connection is detected. This speeds up downloading message attachments compared to using a 3G or 4G network connection.

Google Talk

Chat with other Google Talk users.

Tip: Talk requires that you have a Google account. Use the Gmail application to set up your Google account on your phone. (For more information, refer to “*Gmail*” on page 108.)

1. Press  **Home** →  **Apps** →  **Talk**.
2. If you have already set up your Google account, you are automatically logged in. If you do not have a Google account, you can touch **Create** to create a new Google account.
3. Use the application’s controls to chat with other Google Talk users.

Email

Send and receive email using popular email services.

Note: Only some paid “Plus” accounts include POP access to allow this program to connect. If you are not able to sign in with your correct email address and password, you may not have a paid “Plus” account. Please launch metroWEB to access your account.

Configuring Email Accounts

You can configure Email for most accounts in just a few steps.

Tip: For better management of Microsoft Exchange ActiveSync email accounts, configure them using the **Accounts and sync** setting. (See “*Adding a Microsoft Exchange® account*” on page 54.)

Configuring the first email account

1. Press  **Home** →  **Apps** →  **Email**.
2. Touch **Email address** to enter your email address, then touch **Password** or touch **Next** to enter your password.
3. Touch a setup option:
 - **Manual setup**: Configure the account manually. Touch **POP3**, **IMAP**, or **Exchange**, then enter the account details.
 - **Next**: Connect to the server to set up the account automatically. Follow the prompts to complete set-up, then touch **Done**.

Tip: For more information on setting up your email, contact your Wireless Provider and your Email Service Provider.

Configuring additional email accounts

1. Press  **Home**, then touch  **Apps** →  **Email**. Your email account Inbox appears in the display.
2. Touch  **Menu** → **Settings**. The Email **Settings** screen appears.
3. Touch . The **Set up email** screen appears.
4. Touch the **account@example.com** field to enter your email address.
5. Touch the **Password** field or touch **Next** to enter your password.
6. Touch a setup option:
 - **Manual setup**: Configure the account manually. Touch **POP3**, **IMAP** or **Exchange**, then enter the account details. (For account details, contact your Email service provider or your organization's IT support.
 - **Next**: Connect to the server to set up the account automatically. Follow the prompts to complete set-up, then touch **Done**.

Composing and Sending Email

1. Press  **Home**, then touch  **Apps** →  **Email**.
2. Touch . The **New email** screen appears.
For a multiple-account **Combined view**, touch the **From:** setting to change the account you'll be using to send this message.
3. Touch the **To:** field to enter or select recipients. As you enter names or numbers, any matching Contacts display. Touch a Contact to add it to the field.
4. Touch the **Subject:** field to enter a subject.
5. Touch the text field to enter the text of your email.
6. While composing a message, press  **Menu** for these options:
 - **Send email to myself:** Addresses this message to your Inbox. (For a multiple-account **Combined view**, you are prompted to select one of your email accounts.)
 - **Add Cc/Bcc:** Create Cc (copy) and Bcc (blind copy) fields to the message. After creating the fields, touch to enter recipients.
 - **Save as draft:** Close the message and save it in Drafts.
 - **Discard:** Delete the message and return to the Inbox screen.

- **Priority:** Select High, Normal, or Low delivery priority for this message.
 - **Tracking options:** Select to receive a Read receipt or Delivery receipt for this message.
 - **Security options** (MS Exchange accounts): Choose to Encrypt and/or Sign this message.
7. Touch  to attach a file, image, video, audio file, Memo, Calendar event, Contact, or Maps Location to this message.
 8. Touch  to insert a Gallery image or information from a Memo, Calendar event, Contact, and/or Maps Location in the content of this message.
 9. Touch  to insert quick response text into the content of this message.
 10. Touch  to send this message.

Managing Emails

Combined view

You can view messages from multiple email accounts in a single inbox by selecting the **Combined view**, or you can view email accounts individually.



Account Selector button

1. Press  **Home** →  **Apps** →  **Email**.
2. Touch the Account Selector button, then touch **Combined view**. Messages from all of your email accounts are listed in order of the most recently received.
3. To view emails from a single account, touch the Account Selector button, then touch the desired account.

Refreshing Your Email Account

You can manually refresh your email account, synchronizing your inbox on your phone with your email provider's servers.

1. Press  **Home** →  **Apps** →  **Email**.
2. Touch  **Refresh**.
3. To refresh multiple email accounts at the same time, touch the Account Selector button, select **Combined view**, then touch  **Refresh**.

Email Account Settings

Use Account settings to configure handling of email from your accounts.

Note: These are basic settings for most accounts. Some email accounts may have additional settings.

1. Press  **Home** →  **Apps** →  **Email**.
 2. Touch  **Menu** → **Settings**.
 3. Touch an account to select values for the following options:
 - **Common settings:**
 - **Account name:** Enter a name for the account's display.
 - **Your name:** Enter your name, to be used on emails.
 - **Signature:** Edit or replace pre-composed text for inclusion in outgoing email messages.
 - Touch **Signature**  to include your pre-composed signature text to the content of your messages, or touch **Signature**  to omit a signature from your messages.
- To change your Signature text, touch **Signature**.

- **Default account:** When enabled, this account is the default account for sending email from your phone.
- **Always Cc/Bcc myself:** Always create Cc (copy) and Bcc (blind copy) fields for the message.
- **Forward with files:** When enabled, includes files originally attached to a message when you forward a copy of it.
- **Recent messages:** Select the number of most recent messages to maintain in your Inbox.
- **Show images:** When enabled, shows images included with your messages.
- **Data usage:**
 - **Sync Email:** When enabled, automatically synchronizes the contents of your email account inbox with your phone.
 - **Email check frequency:** Choose how often your phone will check your email account for new messages.
 - **Auto download attachments:** When enabled, automatically downloads attachments to your messages when your phone is connected to a Wi-Fi hotspot.
 - **Size to retrieve emails:** Select how much of each new message to retrieve initially (Headers only, 2 KB, 50 KB, 100 KB, All, All including attachments).

- **Auto resend times:** Select the number of times to attempt to resend an undelivered message (No limit, 1 time, 3 times, 5 times, or 10 times).
- **Exchange ActiveSync settings:**
 - **Period to synch mail:** Choose a time period to determine how many days' email will synchronize.
 - **Empty server trash:** Removes deleted files from the email server's trash folder.
 - **Sync schedule:** Choose a frequency for the phone to check the server for new emails.
 - **Out of office settings:** Select whether to send a pre-composed message to originators of Internal and/or External email messages.
 - **Size to retrieve emails:** Select how much of each incoming email message (in Kilobytes or All) to initially download from the email server.
 - **Period to sync Calendar:** Choose a time period to determine how many Calendar days' to synchronize.
 - **Security options:** Set advanced email security options (encryption, sign, S/MIME certificate, types of email message contents to accept or reject).
- **In case of sync conflict:** Choose whether your device or the server has priority.
- **Auto resend times:** Number of times your device resends a message that has not been delivered.
- **Notification settings:**
 - **Email notifications:** Enable or disable alerts in the Status Bar.
 - **Select ringtone:** Choose a ringtone to use for new email alerts.
 - **Vibrate:** Enable or disable vibration with new email alerts.
- **Server settings:**
 - **Incoming settings:** Modify incoming email server settings.
 - **Outgoing settings:** Modify SMTP server, Port and Security type, Username and Password settings.
 - **Exchange server settings:** Modify Exchange ActiveSync email server settings.
 - **Sync Email:** When enabled, synchronizes your Exchange email with your phone's email.
 - **Sync Contacts:** When enabled, synchronizes your Exchange contacts with your phone's Contacts.
 - **Sync Calendar:** When enabled, synchronizes your Exchange contacts with your phone.

- **Sync Task:** When enabled, synchronizes your Exchange tasks with your phone's tasks.

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 136.

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 83). 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** → **Wi-Fi**. The **Wi-Fi** options screen appears. (For more information, refer to “*Accessing Settings*” on page 135.)
2. Touch **Wi-Fi**  to turn on Wi-Fi.
3. Touch **Add 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.

Bluetooth

Note: For Hearing Aid Compatibility Information, see page 197.

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 138.

Note: Bluetooth profiles are specifications for services supported by individual devices. For a list of profiles your phone supports, see “*Bluetooth profiles*” on page 137.

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 85). 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** → **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 147.

Accessing a VPN

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

PC Connections

You can connect your device to a PC using an optional PC data cable using various USB connection modes.

- **Storage:** Lets you use the built-in mass storage and memory card capacity of the phone to store and upload files. This option lets your computer treat your phone's installed and card memory as removable storage drives.
- **Kies air:** Lets you wirelessly synchronize files on your phone (in mass storage and on a memory card) with files on your Windows PC, provided they are both on the same Wi-Fi network.

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

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

Connecting as a Storage Device

You can connect your device to a personal computer, have your device appear as a removable disk, and access your device's file directory. If you insert a memory card in the device, you can also access the files directory on the memory card by using the device as a memory card reader.

Note: The file directory of the memory card displays as a removable disk, separate from the internal memory.

1. Connect the USB cable to the device and connect the cable to the computer. After a few seconds, a pop-up window displays on the PC, prompting you to choose how to access the new device.
2. On the PC pop-up, click **Open device to view files**. You can now transfer files between the PC and your phone's memory and memory card (if installed).

Kies via Wi-Fi

Kies via Wi-Fi lets you wirelessly synchronize files on your phone (in mass storage and on a memory card) with files on your personal computer, provided they are both on the same Wi-Fi network.

To use Kies via Wi-Fi, follow these steps:

1. Sign onto the same Wi-Fi network from your phone and from your personal computer.
2. On your phone, from the Home screen, touch  **Menu → Settings**.
3. Under **Wireless and network**, touch **More settings**. The **Wireless and networks** menu appears.
4. Touch **Kies via Wi-Fi**. An **Attention** pop-up appears.
5. Read the warning text and touch **OK**. The **Kies via Wi-Fi** screen appears and scanning for another device on the same network that is running Kies.
6. Once Kies on your personal computer recognizes your phone, follow the on-screen instructions to view and share information between your phone and personal 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 144.

1. From the Home screen, touch  **Menu** → **Settings**.
1. Under **Wireless and network**, touch **More settings** → **Tethering and portable hotspot**. The **Tethering and portable hotspot** screen appears.
2. Choose a tethering method:
 - **USB tethering**: Connect the computer to the phone using the USB Data Cable, then touch **USB Tethering** to turn tethering On or Off. When On, a check mark 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 mark 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 no security applied, and any device can connect. For more information about configuring your mobile hotspot, see “*Portable Wi-Fi Hotspot*” on page 142.

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**.
2. Under **Wireless and network**, touch **More settings** → **Tethering and portable hotspot**.
3. Touch **Portable Wi-Fi Hotspot**  and follow the prompts to turn Portable Wi-Fi Hotspot On.

Connecting a Device to 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 89.
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 142.
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 142.

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**.
2. Under **Wireless and network**, touch **More settings**.
3. Touch **NFC** to enable or disable NFC. When enabled, a check mark appears in the check box.

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**.
2. Under **Wireless and network**, touch **More settings**.
3. Touch **NFC** to enable NFC. NFC must be enabled to use Android Beam. When enabled, a check mark appears in the check box.
4. Touch **Android Beam**  to turn Android Beam On, or touch **Android Beam**  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 95.)
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**.
2. Under **Wireless and network**, touch **More settings**.
3. Touch **NFC** to enable NFC. NFC must be enabled to use S Beam. When enabled, a check mark appears in the check box.
4. 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 Player**, or  **Gallery** (See “*Applications and Widgets*” on page 95.) 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.

Wi-Fi Direct

Wi-Fi Direct allows devices to connect to each other directly over a Wi-Fi connection, without separate connections to a network or Wi-Fi hotspot. For example, some printers support Wi-Fi Direct, and you can print from your phone using Wi-Fi Direct.

Configuring Wi-Fi Direct

For information on configuring Wi-Fi Direct, see “*Configuring Wi-Fi Direct*” on page 147.

Turning Wi-Fi Direct On or Off

1. From the Home screen, touch  **Menu** → **Settings**.
2. Under **Wireless and network**, touch **More settings**.
3. Touch **Wi-Fi Direct**  to turn Wi-Fi Direct On, or touch **Wi-Fi Direct**  to turn Wi-Fi Direct Off.

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

AllShare Cast

AllShare Cast 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 83.)
2. On your phone press  **Home**, then touch  **Menu** → **Settings**. The **Settings** screen appears.
3. Under **Wireless and network**, touch **More settings**. The **Wireless and networks** screen appears.
4. Touch **AllShare Cast**. The **AllShare Cast** screen appears with **AllShare Cast** already active and begins scanning for available devices. All detected DLNA certified devices are listed under **Available devices**.
5. 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 149.)

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 83.)
2. On your phone press  **Home**, then touch  **Menu** → **Settings**. The **Settings** screen appears.
3. Under **Wireless and network**, touch **More settings** → **Nearby devices**. The **Nearby devices** screen appears.
4. Touch **File sharing** to enable or disable file sharing with DLNA-compatible devices. When enabled, 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 the Memory Card”* on page 7.

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 Erase SD card setting to remove all content from an installed memory card.

1. From the Home screen, touch  **Menu** → **Settings**.
2. Under **Device**, touch **Storage**.
3. Under **SD card**, touch **Format SD card**, then follow the prompts to confirm the deletion of information from the card.

Section 8: Applications and Widgets

This section contains a description of each application and widget available in the **Apps** and **Widget** menus, their functions, and how to navigate through an application or widget. If an application or widget is described in another section of this user manual, a cross reference to that particular section is provided.

Tip: To open applications quickly, add the icons of frequently-used applications to one of the Home screen panels. (For details, see “*Customizing the Home Screen Panels*” on page 29.)

Accessing Applications

1. Press  **Home**, then touch  **Apps**, and the **Apps** tab. An **Apps** screen panel appears in the display.
2. Sweep your finger right or left to scroll through the Apps screen panels.
3. To launch an application, touch its icon.

Customizing the Apps Screens

Downloading New Applications

Identify and download additional applications using Google Play Store.

- From the **Apps** screen, touch  **Menu** → **Play Store**. The **Google Play** screen appears. (For more information, refer to “*Play Store*” on page 127.)

Choosing a View

By default, application icons appear in Customizable grid view. You can change the view to Alphabetical grid view or Alphabetical list view.

- From the **Apps** screen, touch  **Menu** → **View type**. The available options are:
 - **Customizable grid:** Arrange application icons in the order you prefer.
 - **Alphabetical grid:** Application icons automatically arranged in alphabetical order.
 - **Alphabetical list:** Application icons automatically listed in alphabetical order.

Moving Application icons

With the **Apps** screen in Customizable grid view, you can arrange the application icons to suit yourself.

1. From the **Apps** screen, touch  **Menu**, then touch **Edit**.

Note: The **Edit** option is not available with the **Apps** screen in List view.

2. Touch and hold an application icon, then drag it to a new location.
3. When you are finished, press  **Menu**, then touch **Save**.

Removing Downloaded Applications

You can remove applications that you have downloaded, but not the applications pre-installed on your device. If you have no downloaded applications on your device, this option is disabled.

1. From the **Apps** screen, touch  **Menu**, then touch **Uninstall**. Removable (that is, downloaded) applications appear marked with a  icon.
2. Touch  for the application you want uninstalled. You are prompted to verify that you want to uninstall the selected application.
3. To uninstall the selected application, touch **OK**.
4. Follow any prompts to complete uninstalling the selected application.

Share Downloaded Applications

Share free apps using direct connections with other devices, social media sites, email, or messaging.

1. From the **Apps** screen, touch  **Menu**, then touch **Share apps**.
2. A list of apps that can be shared appears.
3. Mark the apps you want to share by touching them. When touched, a check mark appears in each app's check box.
4. Touch **Done**. A **Share via** list appears.
5. Select the preferred sharing method (**Bluetooth**, **Email**, **Flipboard**, **Gmail**, **Google+**, **Messaging**, or **Wi-Fi Direct**).

Filtering Application icons

You can select which icons appear in the **Apps** screen.

1. From the **Apps** screen, touch  **Menu**, then touch either of the following options:
 - **Downloaded applications**: Shows only those applications you have downloaded and installed on your phone.
 - **Hide applications**: Mark those applications you do not want to appear on the **Apps** screen by touching their icons (check marks appear in their check boxes), then touch **Done**. The **Apps** screen appears without the hidden applications.
 - **Show hidden applications**: Shows only those applications you have hidden. To restore your hidden application(s), Mark those applications by touching their icons (check marks appear in their check boxes), then touch **Done**. The **Apps** screen appears with the hidden applications restored.

Calculator

Use your phone's Calculator to perform arithmetical calculations (addition, subtraction, multiplication, and division).

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

Calendar

Record events and appointments to manage your schedule.

Tip: A Calendar widget is available in Widgets. For more information about placing widgets on the Home screen, see *“Adding Apps and Widgets to a Home Screen panel”* on page 30.

1. From the **Apps** screen, touch  **Calendar**.
2. Touch , then touch a tab to choose a calendar view:
 - **Year:** Display the current year and scroll to other years.
 - **Month:** Display the current month and scroll to other months.
 - **Week:** Display the current week, and scroll to other weeks.
 - **Day:** Display today's schedule, and scroll to other days.
 - **Agenda:** Display events and tasks in a chronological list.
 - **Task:** Display tasks in a chronological list.

3. Touch  **Menu** for these options:

- **Go to:** Display a specific date.
- **Delete:** Delete an event.
- **Search:** Search for calendar events.
- **Sync:** Synchronize your phones calendar with your account calendars. (For more information, refer to *“Accounts”* on page 51.)
- **Settings:** Customize the calendar.

Customizing the Calendar

1. From the **Apps** screen, touch  **Calendar**.
2. Touch  **Menu**, then touch **Settings** to configure these settings:
 - **View settings:**
 - **Week view:** Choose Timeline or Analog view for a week's events.
 - **First day of week:** Choose a day to begin each week.
 - **Hide declined events:** Enable or disable display of events.
 - **Lock time zone:** When enabled, sets event times and dates to a specified time zone, so that times and dates will not change if you move to another time zone.
 - **Select time zone:** When Lock time zone is enabled, specify the time zone for all events.
 - **Show week number:** Display the number of the week (1 – 52) in a **W** column to the left of the first day of the week column.
 - **Calendars:** Select calendars to display.

- **Event notification:**
 - **Set alerts & notifications:** Choose Alert to receive alerts, Status bar notification to display notifications in the Status bar, or Off for no notifications or alerts.
 - **Select ringtone:** Choose a ringtone for event notifications, then touch **OK**.
 - **Vibration:** Enable/disable vibration for event notifications.
 - **Default reminder time:** Choose a default reminder time for Calendar events (default time is 15 minutes).
 - **Notifications while screen is off:** Enable/disable display of notifications on the full screen while the screen is blanked.
- **Sync settings:**
 - **Sync events/tasks:** Launch the **Accounts and sync** screen to select synchronization options. (For more information, refer to “*Accounts and sync*” on page 159.)
- **Gesture:**
 - **Swipe with two fingers:** Show animation demonstrating how to change the Calendar view with a simple swipe with two fingers.

Sending Events

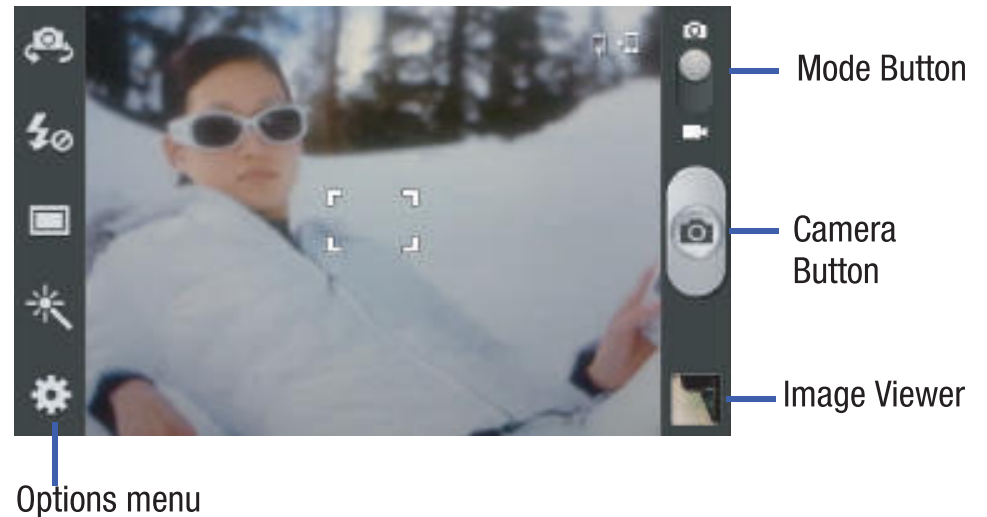
Send events as vCalendar files to other compatible devices.

1. From the **Apps** screen, touch  **Calendar**.
2. Touch an event to display its details.
3. Touch  **Menu** → **Share via**.
4. Select the desired Sharing method from the **Share via** pop-up.
5. Follow the prompts to send a copy of a Calendar event to another device. (For more information, refer to “*Connections*” on page 83.)

Camera

Use your phone’s built-in Camera to take pictures and record video.

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



Important! Do not take photos of people without their permission.
Do not take photos in places where cameras are not allowed.
Do not take photos in places where you may interfere with another person’s privacy.

Taking Pictures

1. From the **Apps** screen, touch  **Camera**.
2. Using the display as a viewfinder, compose your picture by aiming the lens at the subject.
 - Touch the screen to focus on the area you touched.
 - “Pinch” the screen, or press the **Volume** key, to zoom in or out.
 - To configure settings, see “*Camera Options*” on page 101.
3. To take the picture, touch the **Camera** button ().
4. After taking a picture, touch **Image Viewer** to view the picture. While viewing the picture, use these options:
 - “Pinch” the screen, or touch the zoom icons, to zoom in or out, or double-touch to zoom all the way in or out.
 - Touch  **Share** to send the picture using Group Cast, Dropbox, Flipboard, Picasa, Google+, S Memo, Bluetooth, Wi-Fi Direct, Messaging, Gmail, or Email.
 - Touch  **Slideshow** to view all of your pictures as a slideshow.
 - Touch  **Delete** to erase the picture.
 - Touch  **Menu** to access added options: Face tag, Copy to clipboard, Rotate left, Rotate right, Crop, Edit, Set as (Contact photo, Home screen, Lock screen, Home and lock screens wallpaper), Buddy photo share, Print, Rename, or Details.

Camera Options

While in camera mode () , the following options are available:

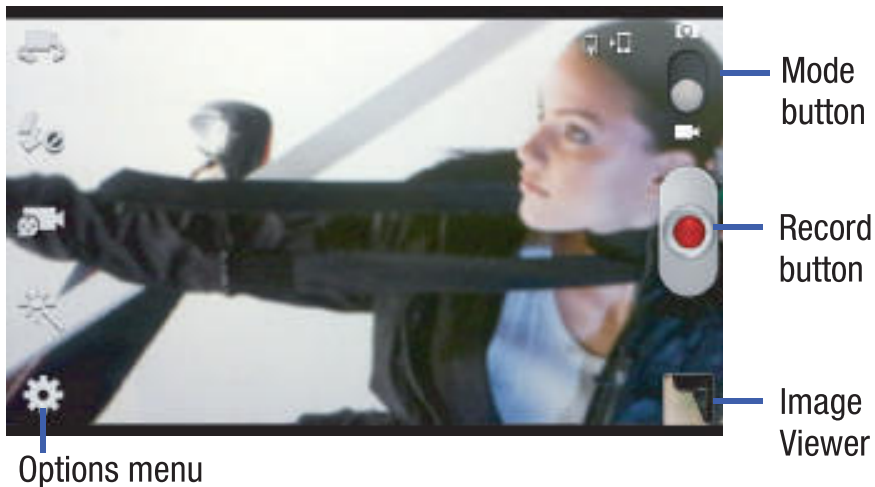
-  **Self portrait**: Switch to the front camera lens, for self-portraits.
-  **Flash**: Choose Off, On, or Auto flash.
-  **Shooting mode**: Choose an automatic shooting mode, from:
 - **Single shot**: Take a single photo.
 - **Smile shot**: Touch the Camera button to focus on the subject’s face. If a smile is detected, the picture is taken automatically.
 - **Panorama**: Takes a landscape photo by taking an initial photo and then adding additional images to itself. The guide box lets you view the area where the second part of the panoramic picture should fall within.
 - **Cartoon**: Gives your photo a cartoon look.
-  **Color effects**: Choose color theme for the picture: No effect (normal color), Negative, Black and white, or Sepia.

-  **Settings:**
 - **Edit shortcuts:** Select which function shortcuts appear in the function menu.
 - **Self-portrait:** Set the front camera so you can take pictures of yourself.
 - **Flash:** Choose Off, On, or Auto flash.
 - **Shooting mode:** Choose Single shot, Smile shot, Panorama, or Cartoon.
 - **Scene mode:** Choose a mode to match conditions (SCN None, Portrait, Landscape, Night, Sports, Party/Indoor, Beach/Snow, Sunset, Dawn, Fall Color, Firework, Text, Candlelight, and Backlight).
 - **Exposure value:** Adjust the picture brightness level by moving the slider.
 - **Focus mode:** Choose a type of automatic focus (Auto focus or Macro).
 - **Timer:** Set a delay before taking a picture (Off, 2 sec, 5 sec, or 10 sec).
 - **Effects:** Apply a color effect to pictures.
 - **Resolution:** Choose a size (in pixels) for the image.
 - **White balance:** Choose a setting to match the light source.
 - **ISO:** Choose a setting for imaging sensitivity (Auto, 100, 200, or 400).
 - **Metering:** Select a method for measuring light.
- **Guidelines:** Enable or disable an on-screen grid to aid in photo composition.
- **Image quality:** Choose a quality setting for photos.
- **GPS Tag:** When enabled, adds GPS location information to photo details.
- **Save as flipped:** Set to On to take and save a mirror-image picture when using the self portrait camera.
- **Storage:** Choose to store your pictures in Phone memory or on an optional Memory card.
- **Reset:** Set all Camera settings to the defaults.

Camcorder

Use your phone's built-in Camcorder to record video.

- From the **Apps** screen, touch  **Camera** →  **Mode**.



Important! Do not take videos of people without their permission.
Do not take videos in places where cameras are not allowed.
Do not take videos in places where you may interfere with another person's privacy.

Capturing Video

1. From the **Apps** screen, touch  **Camera** →  **Mode**.
2. Using the display as a viewfinder, compose your shot by aiming the lens at the subject.
 - Touch the screen to focus on the area you touched.
 - “Pinch” the screen, or press the **Volume** key, to zoom in or out.
 - To configure settings, see “*Camcorder Options*” on page 104.
3. To start recording, touch the **Record** button ().
4. To stop recording, touch the **Stop** button ().
5. After recording, touch **Image Viewer** to view the video.
While viewing the video, use these options:
 - Pinch the screen to zoom in or out, or double-touch to zoom all the way in or out.
 - Touch  **Play** to review the video.
 - Touch  **Share** to send the video using Dropbox, Google+, Bluetooth, Wi-Fi Direct, Messaging, YouTube, Gmail, or Email.
 - Touch  **Slideshow** to review all your videos in sequence.
 - Touch  **Delete** to erase the video.
 - Touch  **Back** to return to the Camcorder to record more videos.

Camcorder Options

- While in Camcorder mode, the following options are available:
 -  **Self recording:** Record video with the front lens.
 -  **Flash:** Choose Off or On.
 -  **Recording mode:** Choose a recording mode, from:
 - **Normal:** Record a video of any length.
 - **Limit for MMS:** Record a video of a size suitable for sending in a Video message.
 -  **Color effects:** Choose color theme for the picture: No effect (normal color), Negative, Black and white, or Sepia.

-  **Settings:**
 - **Edit shortcuts:** Select which function shortcuts appear in the function menu.
 - **Self-recording:** Set the front camera so you can take videos of yourself or video chat.
 - **Flash:** Choose Off or On.
 - **Recording mode:** Choose Normal or Limit for MMS recording mode.
 - **Exposure value:** Adjust the picture brightness level by moving the slider.
 - **Timer:** Set a delay before starting recording.
 - **Effects:** Choose color theme for the picture: No effect (normal color), Negative, Black and white, or Sepia.
 - **Resolution:** Choose a size (in pixels) for the recording.
 - **White balance:** Choose a setting to match the light source.
 - **Guidelines:** Enable to display a grid to aid in video composition.
 - **Video quality:** Choose a quality setting for videos.
 - **Save as flipped:** Set to On to take and save a mirror-image video when using the self portrait Camcorder.
 - **Storage:** Choose to store your videos in Phone memory or on an optional Memory card.
 - **Reset:** Set all Camcorder settings to the defaults.

Chrome

Google Chrome is a full HTML Browser, which allows you to access the internet.

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

Clock

The Clock application includes these features:

- **Alarm:** Create alarms to go off once, or to repeat.
- **World clock:** Display the time and date in any time zone.
- **Stopwatch:** Record lap times.
- **Timer:** Measure elapsed time.
- **Desk clock:** Choose whether the clock calendar and weather appears on the display, and what outputs are active, when you connect your phone to an optional dock.

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

Contacts

Contacts lets you access and manage your Contacts list, Contacts Groups, Favorites list, and Speed dial settings. (For more information, refer to “*Contacts*” on page 58.)

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

Downloads

View and manage files and other items you download to your phone.

1. From the **Apps** screen, touch  **Downloads**.
2. Touch an item to open it (if an appropriate application is installed.)

Note: Applications you download from Google Play™ Store are managed with the Play Store app, and do not appear in **Downloads**.

Email

Send and receive email using popular email services. For more information, see “*Email*” on page 76.

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

Flipboard

This application creates a personalized digital magazine out of everything being shared with you. Access news stories, personal feeds, and other related material.

1. From the **Apps** screen, touch  **Flipboard**.
2. Touch **Get started**, select some on-screen categories and touch **Done** to create a new profile.
— or —
Touch **Sign In** to log into your previously created profile.
3. Follow the on-screen instructions.

Gallery

The Gallery is where you view photos and videos. For photos, you can also perform basic editing tasks, view a slideshow, set photos as wallpaper or contact image, and share as a picture message.

Note: You can increase Gallery photo and video storage by installing a memory card. For more information, see “*Installing the Memory Card*” on page 7.

1. From the **Apps** screen, touch  **Gallery**.
All of the Albums that hold your pictures and videos will be displayed with folder name(s) and number of files.
2. Touch an Album and thumbnails of the contents will be displayed.

Note: If your device indicates that memory is full when you access Gallery, delete some of the files by using **My files** or other file management applications and try again.
(For more information, refer to “*My Files*” on page 125.)

Viewing Pictures

1. From the Gallery screen, select an album, then touch a picture to view it.
2. While viewing a picture, touch on the screen or touch  **Menu** for options.
 - Touch  **Share** to send the picture using Group Cast, Dropbox, Flipboard, Picasa, Google+, S Memo, Bluetooth, Wi-Fi Direct, Messaging, Gmail, or Email.
 - Touch  **Slideshow** to view all of your pictures as a slideshow.
 - Touch  **Delete** to erase the picture.
 - Touch  **Menu** for the following additional options:
 - **Slideshow**: View all of your pictures as a slideshow.
 - **Delete**: Erase the picture.
 - **Face tag**: When enabled, identifies faces with a yellow box, so you can touch to add tag information.
 - **Copy to clipboard**: Create a copy, to paste into other apps.
 - **Rotate left** / **Rotate right**: Change the picture's orientation.
 - **Crop**: Change the picture's size and/or remove portions of the picture.
 - **Edit**: Download and launch Photo editor to alter the selected picture.

- **Set as**: Assign the picture as a Contact photo, or as wallpaper.
- **Buddy photo share**: Send the picture to the Contacts whose Contact photos match faces in the picture.
- **Print**: Print the picture over a Wi-Fi Direct connection to a compatible Samsung printer.
- **Rename**: Change the picture's filename.
- **Scan for nearby devices**: Search for nearby devices to share this picture.
- **Details**: View information about the picture.

Viewing Videos

1. From the Gallery screen, then select an album. A matrix or list of available videos appears.
2. To play a video, touch its thumbnail or list entry.
3. While viewing videos, touch on the screen or touch  **Menu** for options.
 - Touch  **Share** to send the video using Dropbox, Google+, Bluetooth, Wi-Fi Direct, Messaging, YouTube, Gmail, or Email.
 - Touch  **Slideshow** to view all of your videos in sequence.
 - Touch  **Delete** to erase the video.
 - Touch  **Menu** for the following additional options:
 - **Rename**: Change the video's filename.
 - **Details**: View information about the video.

Sharing Using S Beam

You can also share Gallery photos and videos with compatible devices using S Beam. (For more information, refer to “*S Beam*” on page 91.)

Gmail

Send and receive emails using Gmail, Google’s web-based email.

For more information, see “*Gmail*” on page 73.

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

Google+

Google+ makes messaging and sharing with your friends a lot easier. You can set up Circles of friends, visit the Stream to get updates from your Circles, use Messenger for fast messaging with everyone in your Circles, or use Instant Upload to automatically upload videos and photos to your own private album on Google+.

- From the **Apps** screen, touch  **Google+**.

Internet

Your phone is equipped with a full HTML Browser, which allows you to access the internet.

- From the Home screen, touch  **Internet**. Your Wireless Provider's mobile home page appears in the Internet screen.

Navigating the web

Selecting items on a page

While browsing web pages, use gestures and menus to navigate:

- Touch an item to select it.
- Touch a hyperlink to follow the link.
- Touch and hold on a hyperlink for options.

Command Keys

- Touch  **Backward** to return to the previous page.
- Touch  **Forward** to go to the succeeding page.

Touching and dragging

- Touch and drag your finger on the screen to navigate pages, and to reposition pages within the screen.

Entering text in a field

- While browsing, touch a text field to display the virtual QWERTY keyboard to enter text.

Zoom

Note: Some web pages do not support the Zoom function.

- Using two fingers, make a pinch motion on the screen.
 - Pinch in to zoom in on a web page.
 - Pinch out to zoom out on a web page.
- To return a web page to original size, double-tap on it.

Entering a URL

Access a web site quickly by entering the URL.

1. Touch the **URL** field at the top of the Internet screen, then enter the URL using the virtual QWERTY keyboard. If the **URL** field is not visible, touch and swipe downward until the **URL** field appears.
2. As you enter characters, potential matches display. Continue entering characters, or touch a match to complete the URL, then touch **Go** to load the page.

Copying text

Copy information from a web page.

1. From the Internet screen, browse to the desired web site.
2. Touch and hold on the text to enable the text selector, then use the on-screen tools.

Browser Options

- From the Internet screen, touch  **Menu** for options:
 - **New window:** Displays a new window so you can browse multiple URLs. (For more information, refer to “*Using Browser Windows*” on page 110.)
 - **Add bookmark:** Adds a URL to your bookmark list.
 - **Add shortcut to home:** Adds a shortcut to your Home screen.
 - **Share page:** Shares the page using Gmail or as a message.
 - **Find on page:** Searches for matching text in the current page.
 - **Desktop view:** Displays the current page in Desktop view (to closely mimic how the current page would appear on a desktop computer).
 - **Save for offline reading:** Stores the current page in memory so that it can be read later even if you lose your Internet connection.

- **Downloads:** Displays your download history.
- **Print:** Prints the screen or web page on a Samsung printer using Wi-Fi.
- **Settings:** Tailor the Internet browser to suit yourself. For more information, refer to “*Browser Settings*” on page 112.

Using Browser Windows

You can have multiple windows open at one time, and you can switch between windows.

- To open a new window, on the Internet screen, touch  **Windows** →  **New window**.
- To switch to another open window, touch  **Windows**. Touch and swipe to the desired window thumbnail, then touch it to display the window.
- To close a window, touch  **Windows**. Touch  **Close** beside a window to close it.

Going Incognito

The Incognito feature lets you view Internet sites without leaving records in your browser history or search history, and without traces (such as cookies) being stored on your device.

Note: When you exit Incognito mode, your phone retains any downloaded files.

To add an Incognito window:

1. From your browser window, touch  **Windows** →  **Incognito**.
2. A new Incognito window appears.

Note: The incognito icon () appears in the upper-left of the new browser window while you are in this mode.

3. Browse to the desired web site(s).

To exit from the incognito window:

1. From your browser window, touch  (**Windows**).
2. Scroll across the available windows and locate the Incognito window.
3. Touch  next to the incognito window to delete it.

Using Bookmarks

While browsing, bookmark a site to quickly access it later.

Creating a bookmark

1. From the Internet screen, browse to the desired web site, then touch  **Bookmarks** →  **Add bookmark**. The **Add bookmark** screen appears.
2. Edit the **Name** and **Address** of the new bookmark as needed, then select the **Folder** where you want it added.
3. Touch **Save** to save the new bookmark.

Accessing bookmarks and history

Launch a bookmarked page, or reload recent pages.

1. From the Internet screen, touch  **Bookmarks**.
2. On the tabs, use these options:
 - Touch an item to load the page.
 - Touch and hold on an item for options.
 - Touch  **Menu** for more options.

Deleting Bookmarks

1. From the Bookmarks page, touch and hold the bookmark you want to delete.
2. Touch **Delete bookmark**.
3. In the **Delete** confirmation pop-up, touch **OK**.

Browser Settings

To make adjustments in your browser settings, follow these steps:

- From the Internet browser screen, touch  **Menu** → **Settings**. The following options are available:
 - **General:**
 - **Set home page:** Sets the current home page for the Web browser.
 - **Form auto-fill:** Lets you fill in web forms with a single touch.
 - **Auto-fill text:** Enter your Full name, Company name, street Address, City/Town, State, Postcode, Country, Phone number, and Email address to be used to auto-fill web forms.

- **Privacy and security:**

- **Clear cache:** Deletes all currently cached data. Touch **OK** to complete the process.
- **Clear history:** Clears the browser navigation history. Touch **OK** to complete the process.
- **Show security warnings:** When enabled, notifies you if there is a security issue with the current web site.
- **Accept cookies:** When enabled, lets web sites that require cookies to save cookies to, and read cookies from, your device.
- **Clear all cookie data:** Deletes all current web site cookie files.
- **Remember form data:** When enabled, lets your device store data from any previously filled out forms.
- **Clear form data:** Deletes any stored data from previously filled out forms. Touch **OK** to complete the process.
- **Enable location:** When enabled, lets web sites request access to your location.
- **Clear location access:** Clears location access for all web sites. Touch **OK** to complete the process.
- **Remember passwords:** When enabled, stores usernames and passwords for visited sites.

- **Clear passwords:** Deletes any previously stored usernames or passwords. Touch **OK** to complete the process.
- **Enable notifications:** Allows web site notifications. Select Always on, On demand, or Off.
- **Clear notifications:** Deletes web site notification access information.
- **Accessibility:**
 - **Force zoom:** When enabled, overrides the web site's request to control zoom.
 - **Text size:** Lets you preview the text size, scale the text size using a slider bar, and minimize the font size using a slider bar.
 - **Inverted rendering:** When enabled, displays web sites as a negative image (with black replacing white and white replacing black), and lets you adjust the image Contrast using a slider bar.
- **Advanced:**
 - **Select search engine:** Set your default search engine to Google, Yahoo!, or Bing.
 - **Open in background:** When enabled, new browser windows appear behind the current one.
 - **Enable JavaScript:** When enabled, lets the browser process Javascript from web pages. With this feature disabled, some web pages may not display properly.
 - **Enable plug-ins:** When enabled, lets the browser launch downloaded plug-ins, such as Adobe Flash.
 - **Default storage:** Set the browser's default storage to Device or Memory card.
 - **Website settings:** View advanced settings for individual web sites.
 - **Default zoom:** Set the browser default zoom to Far, Medium, or Close.
 - **Open pages in overview:** Shows an overview of newly opened web pages.
 - **Auto-fit pages:** When enabled, resizes web pages to fill as much of the screen as possible.

- **Block pop-ups:** When enabled, prevents pop-up advertisement or windows from appearing on-screen.
- **Text encoding:** Select the browser text encoding for a specific language or lets the browser Auto-detect (default) web page text encoding.
- **Reset to default:** Clears all browser data and resets all settings to default.
- **Bandwidth management:**
 - **Preload search results:** Lets the browser preload high confidence search results in the background to help speed up searches.
 - **Load images:** When enabled, lets the browser load web page images to onto your device and to display them.
- **Labs:**
 - **Quick controls:** When enabled, you can open browser quick controls and hide the app and URL bars by swiping your thumb accross the screen.
 - **Full screen:** When enabled, displays web pages in Full screen mode and hides the browser status bar.

Latitude

Use Google Latitude to locate your friends on a map, and share or hide your own location.

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

Local

Use Local to identify and provide recommendations for restaurants, cafes, bars, and other attractions near your current location.

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

Maps

Use Google Maps to find your current location, get directions, and other location-based information. The Google Maps shortcut appears by default on the Home screen.

Note: You must enable Google location services to use Maps. Some other features require Standalone GPS and/or Google location services. For more information, refer to “*Location services*” on page 160.

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

Navigating the Map

Zooming

- Double-tap on the screen to zoom in.
- Touch Zoom in or Zoom out.

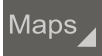
Scrolling

- Touch and drag on the screen to reposition the map in the display.

Touch and Touch and hold

- **Touch** an information balloon for these options:
 - **Accurate to 50 meters:** When enabled, increases map location accuracy to within 50 meters. Also shows your location’s address.
 - **Map:** Center the map on this location.
 - **Directions:** Get driving, public transport, or walking directions.
 - **Call:** Call the number provided in the location information.
 - **Street view:** Get a street-level view of this location (if available).
 - **What’s nearby:** Get a list of nearby businesses and points of interest.
 - **Search nearby:** Enter search criteria to find nearby points of interest.
 - **Add as a contact:** Add this location to your Contacts list.
 - **Send location to others:** Send the selected location information using Flipboard, Google+, Messaging, Bluetooth, Wi-Fi Dkirect, Gmail, or Email.
 - **Report incorrect location:** Send an error report to Google Maps.
- **Touch and hold** on an area of the map to display pop-up information about the selected location.

Maps Menu

1. From the **Applications** screen, touch  **Maps** → . The following options are available:
 - **Map**: Center the map on this location.
 - **Local**: Find locations such as restaurants, parks, and so on.
 - **Navigation**: Launches the Google Maps Navigation app (For more information, refer to “*Navigation*” on page 125).
 - **Offers**: Lets you enable display of offers from locations on the map.
 - **My places**: Lists locations you have selected and marked.
 - **Latitude**: Lets you and your friends share and display your locations and status messages. It also lets you send instant messages and emails and get directions to your friends’ locations.
 - **Location history**: Lists distances traveled to locations visited and times spent there.

Options Menu

1. From the **Applications** screen, touch  **Maps**.
2. While viewing a map, touch  **Menu** for these options:
 - **Clear Map**: Remove all your selected locations and settings from the current map.
 - **Make available offline**: Select a portion of the current map and save it on your device.
 - **Settings**: Access the following additional options:
 - **Map**: Returns you to the current Map.
 - **Local**: Find locations such as restaurants, parks, and so on.
 - **Navigation**: Launches Google Maps Navigation app. (See “*Navigation*” on page 125.)
 - **Check in** (appears only after you have checked in with Latitude): Select your location for sharing with your friends.
 - **Latitude**: Lets you and your friends share and display your locations and status messages. It also lets you send instant messages and emails and get directions to your friends’ locations.
 - **Location history**: Lists distances traveled to locations visited and times spent there.

— **My Places:** Shows you locations you have marked as favorites, such as restaurants, museums, parks, and so on.

- **Settings:** Choose Cache Settings, Location Settings, Labs, and view Terms, Privacy & Notices, and general information About Google maps.
- **Help:** displays the Google Mobile Help web page where you can receive help on Google Maps.

3. Touch the following icons for the following additional options:



My Location: When selected, the location displays on the map with a blinking blue arrow.



Search: Find locations by name or address.



Directions: Get driving, public transport, or walking directions.



Local: Find and display locations such as restaurants, parks, and so on.



Layers: Additional items that you can have displayed on your map. They include:

- **Traffic:** Displays real-time traffic conditions so you can plan the fastest route.
- **Satellite:** View your map as a satellite image.
- **Terrain:** Displays terrain features such as hills and mountains.
- **Transit Lines:** Displays mass transit routes.
- **Latitude:** Displays your friend's locations and lets you share your location with them.
- **My Maps:** Lists your saved maps and lets you select a saved map to display.
- **Bicycling:** Displays biking trails.
- **Wikipedia:** Displays links to Wikipedia descriptions of places on your map.

Media Hub

Samsung Media Hub is your one stop for the hottest movie and TV content. With hundreds of titles available at your fingertips, entertainment on the go has never been easier. Featuring the stunning image quality Samsung is known for, Samsung Media Hub is your gateway to mobile video like you've never experienced it before.

Browse the latest movies and TV shows, then rent or purchase, stream or download the media for viewing on your phone.

Note: Access to this feature requires that you already be logged in to your Samsung account. For more information, refer to “*Your Samsung Account*” on page 13.

1. From the **Apps** screen, touch  **Media Hub**.
2. To rent or buy media, you must have a Media Hub account. Touch  **Menu**, then touch **My Profile** to log in or create an account.
3. Browse content, then follow the prompts to buy or rent.

Memo

Create, read, edit, and manage text notes.

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

Messaging

Messaging lets you exchange text and multimedia messages with compatible device users. (For more information, refer to “*Messaging*” on page 68.)

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

Messenger

Messenger allows you to bring groups of friends together into a simple group conversation. When you get a new conversation in Messenger, Google+ sends an update to your phone. (For more information, refer to “*Google+*” on page 108.)

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

More services

Provides access to additional Samsung Apps and services. Works in conjunction with the Samsung Apps feature. (For more information, refer to “*Samsung Apps*” on page 128.)

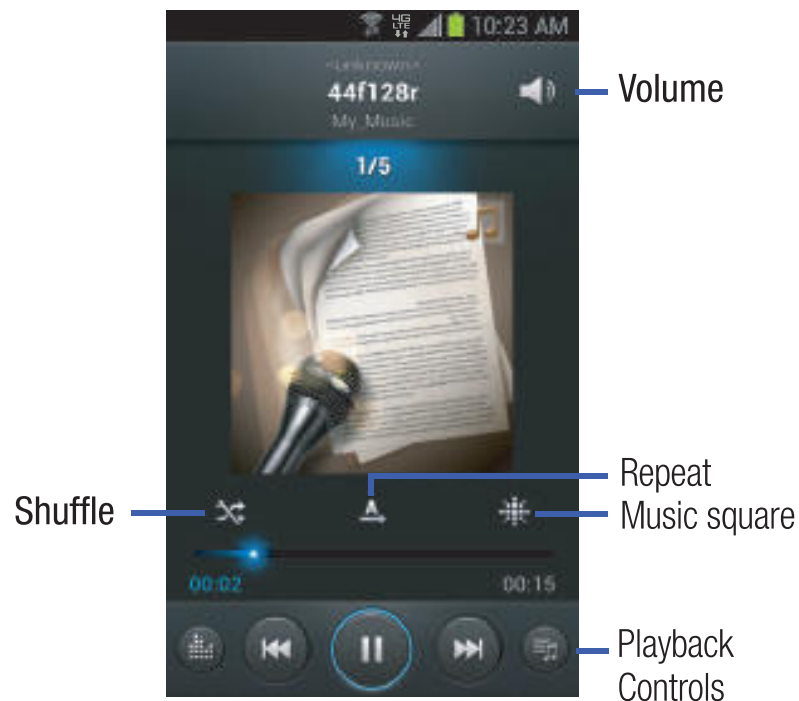
1. From the **Apps** screen, touch  **More services**.
2. Follow the on-screen instructions.

Music Player

Music Player is an application that can play music files. The music player supports files with extensions AAC, AAC+, eAAC+, MP3, and WMA. Music Player lets you navigate through your music library, play songs, and create playlists.

Playing Music

1. From the **Apps** screen, touch  **Music Player**.



2. Touch a library category tab at the top of the screen (All, Playlists, Albums, Artists, Music square, or Folders) to view the available music files.
3. Scroll through the list of songs and touch an entry to begin playback.

The following Music Player controls are available:

-  Pause the song.
-  Start the song after being paused.
-  Touch and hold to rewind the song. Touch to go to previous song.
-  Touch and hold to fast-forward the song. Touch to go to next song.
-  Volume control.
-  Repeat one: Repeats the song currently playing.
-  Repeat all: Replays the current list when the list ends.
-  Play All: Plays the current song list once.

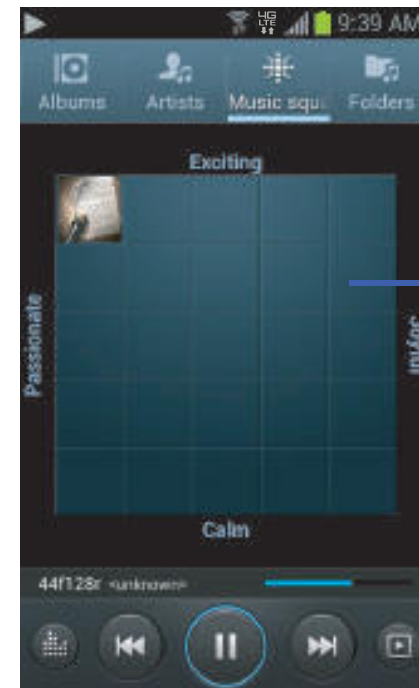
-  Shuffle On: The current list of songs is randomly shuffled for playback.
-  Shuffle Off: Songs are not shuffled but play in listed order.
-  Music square: Play songs linked to buttons in a 5x5 matrix and categorized according to four criteria.
-  Music list: Returns you to the current playlist.
-  Now Playing: Displays the Music player screen with the current song information.

Tip: When you're playing music in the background, playback controls are available on Notifications. For more information, see *"Notification Panel"* on page 26.

Music square

Music square analyzes your music files (a minimum of 25 files) and assigns them to playlists linked to buttons in a 5x5 matrix according to the following criteria:

- **Moods** (Exciting, Passionate, Joyful, Calm)
- **Years** (Exciting, Old, New, and Calm)



Playlist
Selection
Buttons

Playback
Controls

1. From the **Apps** screen, touch  **Music Player**.
2. Touch the **Music square** tab.
— or —
Touch  **Music square**.
3. Touch  **Menu** → **Library update**.
4. Select a playlist based on mood or age of the song.

To switch from Moods to Years

1. From the **Apps** screen, touch  **Music Player**.
2. Touch the **Music square** tab.
— or —
Touch  **Music square**.
3. Touch  **Menu** → **Change horizontal axis**. The **Change horizontal axis** menu pops-up.
4. Touch **Years**.

Music Player Options

To access additional options, follow these steps:

- From the Music Player screen, touch . The following options are available:
 - **Add to quick list:** Adds the current music file to the Quick list.
 - **Via Bluetooth:** Scans for devices and pairs with a Bluetooth headset.
 - **Share via:** Share your music with other devices using Bluetooth, Email, Gmail, Messaging, or Wi-Fi Direct.
 - **Add to playlist:** Add the current music file to a selected playlist.
 - **Details:** View media information such as Artist, Title, Biography, and so on.
 - **Set as:** Set a music file as the Phone ringtone, as a Caller ringtone, or as the Alarm tone.
 - **Scan for nearby devices:** Scan for Bluetooth or Wi-Fi Direct devices with which to share music files.
 - **Settings:** Change your Music Player settings. For more information, refer to “*Music Player Settings*” on page 123.
 - **End:** Close the Music Player app.

Music Player List Options

To access additional options, follow these steps:

- From the Music Player List screen, touch . The follow options are available:
 - **Add to playlist:** Add one or more selected songs to a new or existing Playlist.
 - **Delete:** Remove one or more selected songs from your phone.
 - **Shuffle:** Play the songs in the list in random order.
 - **Search:** Find and list one or more songs by Album name, Artist name, or Title.
 - **Scan for nearby devices:** Scan for Bluetooth or Wi-Fi Direct devices with which to share music files.
 - **Settings:** Change your Music Player settings. For more information, refer to “*Music Player Settings*” on page 123.
 - **End:** Close the Music Player app.

Music Square Options

To access additional options, follow these steps:

- From the Music Player Music square screen, touch . The follow options are available:
 - **Help:** Adds the current music file to the Quick list.
 - **Library update:** Analyzes your music files and assigns them to playlists linked to playlist selection buttons.
 - **Change horizontal axis:** Select Mood or Years.
 - **Scan for nearby devices:** Scan for Bluetooth or Wi-Fi Direct devices with which to share music files.
 - **Settings:** Change your Music Player settings. For more information, refer to “*Music Player Settings*” on page 123.
 - **End:** Close the Music Player app.

Music Player Settings

The Music Player Settings menu allows you to set preferences for the music player such as whether you want the music to play in the background, sound effects, and how the music menu displays.

- While in the Music Player, touch  → **Settings**.

The follow settings are available:

- **SoundAlive:** Set a type of equalization such as Normal, Pop, Rock, Dance, Jazz, Classic, and so on.
- **Play speed:** Set the play speed anywhere between 0.5X and 2.0X using the slider.
- **Music menu:** Select which categories you want to display in the Music menu. Choices are: Albums, Artists, Genres, Music square, Folders, Composers, Years, Most played, Recently played, or Recently added.
- **Lyrics:** When activated, the lyrics of the song are displayed if available.
- **Music auto off:** When activated, music will automatically turn off after a set interval.

Using Playlists

Playlists are used to assign songs to a list of preferred media which can then be grouped into a list for later playback. These Playlists can be created using the Music Player options menu or can be imported by synchronizing with a third-party personal computer music application (such as Windows Media Player).

Creating a Playlist

1. From the **Apps** screen, touch  **Music Player**.
2. Touch the **Playlists** tab.
3. Touch  → **Create playlist**.
4. Enter a name for this playlist in the field and touch **OK**.

Adding Music to a Playlist

To add files to the playlist:

1. From the **Apps** screen, touch  **Music Player**.
2. Touch the **Playlists** tab.
3. Touch the playlist name in which to add music.
4. Touch  **Add music**.
5. Touch a music file, or touch **Select all** to add all the music tracks to this playlist then touch **Done**.

Removing Music from a Playlist

To remove music files from a playlist:

1. From the **Apps** screen, touch  **Music Player**.
2. Touch the **Playlists** tab.
3. Touch the playlist name in which to delete music.
4. Touch  → **Remove**.
5. Touch the check box to the left of each track you want to remove from this playlist, or touch **Select all** to remove all the music tracks from this playlist, then touch **Remove**.

Editing a Playlist Name

Besides adding and removing music files in a playlist, you can also rename the playlist.

To edit a playlist:

1. From the **Apps** screen, touch  **Music Player**.
2. Touch **Playlists**.
3. Touch  → **Edit title**, then touch the playlist you want to rename.
4. In the **Edit title** window, enter a new name for the playlist, then touch **OK**.

For information on downloading music for your phone, see *“Connecting as a Storage Device”* on page 87.

Setting a Song as a Ringtone

You can set a song as a ringtone for all voice calls, for calls from an individual contact, or as an alarm tone.

1. From the **Apps** screen, touch  **Music Player**.
2. Touch and hold on a song, then touch **Set as** and choose from these options:
 - **Phone ringtone**: Set the song as the default ringtone for all incoming voice calls.
 - **Caller ringtone**: Choose a contact to set the song as the ringtone for calls from the contact.
 - **Alarm tone**: Set the song as the alarm ringtone for a new alarm, or for an existing alarm.

My Files

Find, view, and manage files stored on an installed memory card. If the file is associated with an application on your phone, you can launch the file in the application.

1. From the **Apps** screen, touch  **My Files**.
2. Touch a folder and scroll down or up until you locate a file.
3. Touch a file to launch it in the associated application (if the file is associated with an application).
4. While browsing files, use these controls:
 - Touch  **Home** to go back to the root directory.
 - Touch  **Up** to go back up to a higher directory.
 - Touch  **Menu** for options.

Navigation

Use Google Maps Navigation to search for locations, and get turn-by-turn directions.

Note: You must enable location services to use Navigation, and some features require Standalone or Google location services. For more information, see “*Location services*” on page 160.

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

Phone

The Phone application lets you access the dialer keypad, call logs, and favorites. (For more information, refer to “*Call Functions*” on page 31.)

Play Books

With Google Play™ Books, you can shop for ebooks, download them, and read them on your device.

1. From the **Apps** screen, touch  **Play Books**.
2. If prompted, touch **Turn sync on** to synchronize your device with your Books account.
3. Touch  to search for desired ebooks.
4. Follow the on-screen prompts to download an ebook.

Play Magazines

With Google Play Magazines, you can subscribe to your favorite magazines and have them available to read on your phone at any time or any place.

1. From the **Apps** screen, touch  **Play Magazines**.
2. Log on to your Google account if you have not already done so. (For more information, refer to “*Your Google™ Account*” on page 13.)
3. At the **Welcome!** display, touch the shop icon  to browse the full catalog.
4. Read the Google Play Terms of Service and touch **Accept**.
5. Sweep the screen to the left or right to view Categories, Featured, Top Selling, and New Arrivals.
6. Touch a magazine to see more information and subscribe.
7. Follow the on-screen instructions to subscribe to a magazine.

Play Movies & TV

With Google Play Movies, you can rent or purchase thousands of different movies and/or purchase television series episodes. You can watch instantly, or download your movie or television series episode for offline viewing at a later time.

1. From the **Apps** screen, touch  **Play Movies & TV**.
2. Log on to your Google account if you have not already done so.
3. Touch the **MOVIES** tab to view movies you have rented. Following the on-screen instructions for renting or purchasing movies and viewing movies.
4. Touch the **TV SHOWS** tab to view television series episodes you have rented. Following the on-screen instructions for purchasing and viewing television series episodes.
5. Touch the **PERSONAL VIDEOS** tab to view videos you have on your phone or memory card.
6. Touch  for additional options.

Play Music

With Google Play Music, you can play music that you have added to your music file as well as any music you copied from your PC. While offline, you can listen to music you have copied from your PC.

1. From the **Apps** screen, touch  **Play Music**.
2. At the Welcome screen, touch **Next**.
3. At the **Select an account** screen, touch an account that you would like to link to Google Play Music or touch **Add Account**.
4. At the **Get free music** screen, touch **Get free songs** or **Skip**.
5. Follow the on-screen instructions for getting your free music.
All music on your device and external SD card is displayed including Music folders that may contain multiple songs.
6. Touch a song to start playback.
7. From the main Play Music screen, you can touch any of the following tabs for a more detailed listing of songs: Recent, Artists, Albums, Songs, Playlists, and Genres.

8. Touch  for the following options:

- **Shuffle all**: Play all of your music in a shuffled order.
- **Make available offline**: Play your music without being online or connected to the network.
- **Offline music only**: Play music offline.
- **Settings**: View Open source licenses and the music version for the Play Music application.
- **Help**: View a help file on the Google Support website.

Play Store

Using Google Play™ Store, you can shop for apps, games, music, emagazines, ebooks, movies, and TV shows all in one place using your device.

1. From the **Apps** screen, touch  **Play Store**.
2. The first time you open Play Store, read the Terms of Service, then touch **Accept** to continue.
3. Browse for applications to download, then follow the prompts.

S Voice

S Voice provides plain language voice recognition control of various features and applications on your phone.

1. From the **Apps** screen, touch  **S Voice**.
— or —
From the Home screen, press  **Home** twice in quick succession.
2. Read the Samsung Disclaimer then touch **Confirm** to continue.
3. Read the Vlingo Terms of Service then touch **Agree** to continue.
4. Read the information on the **About S Voice** screen, then touch **Next**.
5. Read the information on the **Say what you want** screen, then touch **Next**.
6. Read the information on the **Wake up S Voice** screen, then touch **Next**.
7. Read the information on the **What Can I Say?** screen, then touch **Finish**.
8. At the S Voice screen, say “**Hi Galaxy**” to wake up S voice.

9. Speak into the phone and follow the on-screen instructions.

Samsung Apps

With Samsung Apps, you can easily download an abundance of applications to your device. These include games, news, reference, social networking, navigation, and more. Samsung Apps makes your Smartphone smarter.

Note: Access to this feature requires that you already be logged in to your Samsung account. For more information, refer to “*Your Samsung Account*” on page 13.

1. From the **Apps** screen, touch  **Samsung Apps**.
2. If prompted, read the on-screen disclaimer and **Accept the Terms and conditions**.
3. Follow the on-screen instructions.

Search

Use Google to search the Web.

Tip: The Google Search Widget is available by default on the Home screen. For more information Widgets, see *“Adding Apps and Widgets to a Home Screen panel”* on page 30.

1. From the Home screen, touch the **Google Search** Widget.
— or —
From the **Apps** screen, touch  **Search**.
2. Enter search criteria. Search results display automatically. Touch a search result to display it in a browser window.

Settings

Configure your phone to your preferences. For more information, see *“Settings”* on page 135.

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

Talk

Use Google Talk to chat with other Google Talk users. For more information, see *“Google Talk”* on page 76.

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

Video Player

Video Player 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 Player**.
2. By default, videos display by name in an array of **Thumbnails**.

You can also display your videos in an alphabetical list by touching the **List** tab, or touch the **Folders** tab to list the folders where your videos are stored.

3. To play a video, simply touch its thumbnail or list entry.

The following video controls are available:

-  Pause the video.
-  Start the video after being paused.
-  Touch and hold to rewind the video.
Touch to go to previous video.
-  Touch and hold to fast-forward the video.
Touch to go to next video.
-  Volume control.

-  Original size view: The video plays in its original size.
-  Full-screen in ratio view: The video is enlarged as much as possible without becoming distorted.
-  Full-screen view. The entire screen is used, which may cause some image distortion.

Note: The screen view icons are a three-way toggle. The icon that is displayed, is the mode that will appear after the icon is touched.

4. While playing a video, touch  **Menu** for video options.

Voice Recorder

Record your voice or other sounds, and share recordings using Bluetooth, Email, Gmail, Messaging, or Wi-Fi Direct.

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

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**.

Wallet

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

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 touch the **Widgets** tab. A **Widgets** screen panel 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 touch the **Widgets** tab. A **Widgets** screen panel appears in the display.
3. Sweep your finger right or left to scroll through the Widgets screen panels 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.

Available Widgets

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

- **Alarm:** Add, view, and manage alarms you set using this widget or using the Clock application.
- **Application monitor:** View number of active applications. Launches **Task manager** to view and manage active applications (For more information, refer to “*Home Key*” on page 24).
- **Assistive light:** Use your phone’s flash as a flashlight.
- **Book:** Directly access one of your downloaded electronic books from **Play Store**.
- **Bookmark:** Launch the Internet browser directly to a selected bookmark.
- **Bookmarks:** Launch the Chrome browser directly to a selected bookmark.
- **Calendar:** View and access your scheduled Calendar events.
- **Calendar (mini today):** View and access your Calendar events scheduled for today.
- **Calendar (month):** View and access an entire month of scheduled Calendar events.
- **Calendar (tasks):** View and access your Calendar task list.
- **Clock (digital):** View a digital clock-calendar.
- **Clock (funky):** View an analog clock with distinctive numerals.
- **Clock (modern):** View an analog clock with simplified graduations.
- **Contact (large):** Directly access a selected contact for calls or messaging.
- **Contact (icon only):** Directly access a selected contact for calls or messaging.
- **Direct dial:** Immediately call a selected contact.
- **Direct message:** Immediately send a message to a selected contact.
- **Directions & Navigation:** Immediately obtain directions to a selected location.
- **Dual clock (analog):** View analog clock displays for two selected locations.
- **Dual clock (digital):** View digital clock-calendar displays for two selected locations.
- **Email:** View and directly access email messages in your Combined email box.
- **Flipboard (medium):** Directly access the current Flipboard magazine style information.

- **Flipboard (small):** Directly access the current Flipboard magazine style information.
- **Gmail:** View and directly access your Gmail messages.
- **Gmail label:** Directly access Gmail messages with a selected Gmail label.
- **Google Play Books:** Directly access your Google books.
- **Google Play Music:** Directly access and play a selected music playbook.
- **Google Search** (opaque background): Perform and manage Internet searches.
- **Google Search** (transparent background): Perform and manage Internet searches.
- **Google+ posts:** View and access your social media site accounts.
- **Media Hub:** View and access What's New on Media Hub.
- **Memo:** View and access a stored memo.
- **Mono audio:** Switch between Stereo and Mono audio reproduction.
- **Music Player:** Play your music files.
- **Music playlist:** Play a selected music playlist.
- **Negative colors:** Switch your phone's display between photo positive and negative colors.
- **Picture frame:** Directly access your photos and images.
- **Play Store:** View recommendations from and access Google Play Store.
- **S Bookmark** (icon only): View a selected bookmarked web site and directly access it.
- **S Bookmarks** (array): View thumbnails of web site bookmarks and select a bookmark to directly access the related web site.
- **Settings shortcut:** Directly access selected settings for your phone.
- **Software update:** Directly access the **About device** settings menu.
- **Traffic:** Directly access traffic information for a selected destination.
- **Video Player:** Directly access and play one or more selected videos.
- **Weather:** View current and forecast temperature and weather conditions for a selected location.
- **Yahoo! Finance:** View current prices for selected stocks and/or commodities and directly access additional financial information.

- **Yahoo! News:** View news headlines and access full news articles.
- **YouTube:** Receive and view suggested videos. Directly access your YouTube account.

Section 9: Settings

Accessing Settings

- From the Home screen, touch  **Menu** → **Settings**.

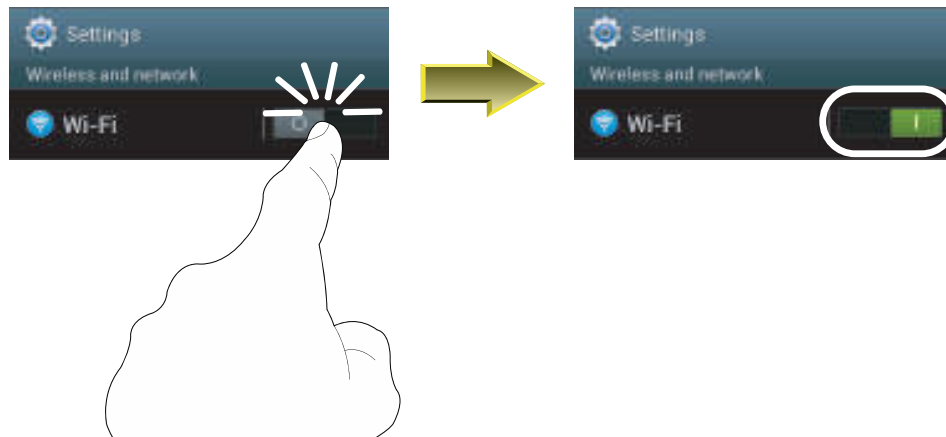
– or –

From the Home screen, touch  **Apps** →  **Settings**.

The **Settings** menu appears.

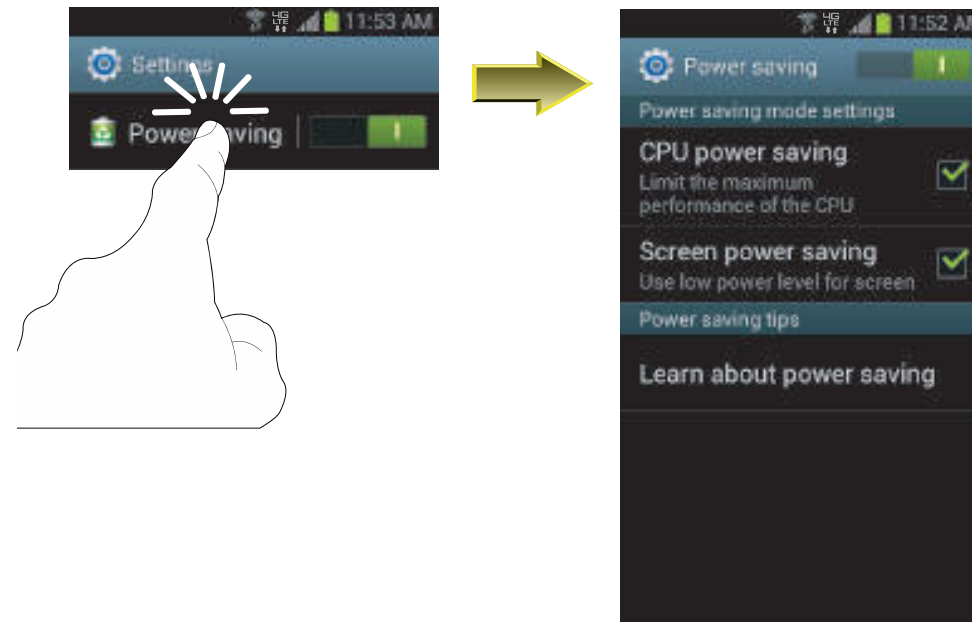
Using Setting Sliders

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



Accessing Additional Options

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



Note: This section does not include information about Call settings. For Call settings information, see “*Call settings*” on page 39.

Wireless and network

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 83.

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 **Settings** screen, 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 **Settings** screen, 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 **Settings** screen, 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. For more information, see “*Adding a Wi-Fi Network Manually*” on page 84.
 - **Scan:** Search for available Wi-Fi networks.
 - **Advanced:** View and configure your phone's Advanced Wi-Fi settings.

Advanced Wi-Fi settings

1. From the **Settings** screen, touch **Wi-Fi → 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.
 - **Keep Wi-Fi on during sleep:** Specify when to switch from Wi-Fi to mobile data for data communications, when the phone goes to sleep (when the backlight goes out). This setting can affect your data usage, and the behavior of devices you connect to your phone, such as when tethering or using Mobile Hotspot.
 - **MAC address:** (Not configurable) View your phone's MAC address, needed for connecting to some secured networks (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).

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 **Settings** screen, touch **Bluetooth**  .

Turn Bluetooth Off:

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

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

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 **Settings** screen, 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 with it see *"Pairing with a Bluetooth Device"* on page 85).

- Touch  **Menu** to access the following options:
 - **Rename device:** Change your phone's Bluetooth device name.
 - **Visible time-out:** Select how long your phone will remain visible to other devices (2 min, 5 min, 1 hour, or Never timeout).
 - **Received files:** Lists files received from other devices over Bluetooth connections.

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

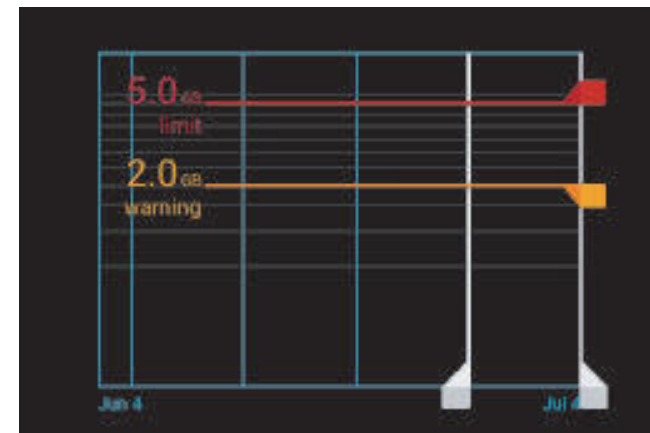
1. From the **Settings** screen, under **Wireless and network**, touch **Data usage**. The **Data usage** screen appears.
2. Touch **Mobile data**  to turn Mobile data On, or touch **Mobile data**  to turn Mobile data Off.

Tip: You can also turn Mobile data On or Off at the Notifications panel.

Setting a mobile data limit

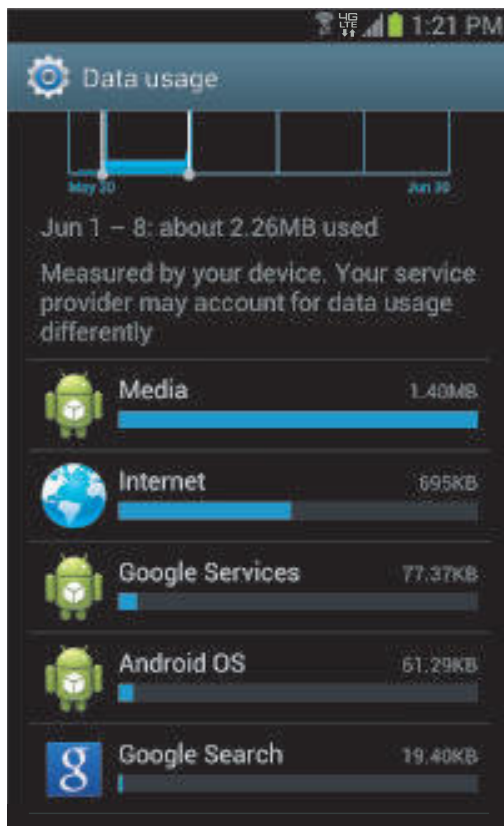
Setting a mobile data limit causes your phone to automatically disable the Mobile data connection when the limit is reached. You can set a warning threshold, to have your device alert you when data usage nears your set limit. Data usage is measure by your device, and your service provider may account for usage differently, so you may want to consider using a conservative limit. Contact your service provider for more information on actual data usage.

1. From the **Settings** screen, under **Wireless and network**, touch **Data usage**. The **Data usage** screen appears.
2. Touch **Set mobile data limit** to enable the limit.
3. Configure the mobile data limit by touching and dragging the **limit** and **warning** lines on the graph.



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 top three processes or apps using mobile data service. Touch a process or app to see data usage for the process or app, and to configure specific settings.



More Wireless and Network Settings

Airplane mode

When airplane mode is enabled, all your phone's wireless connections are disabled, and you cannot make or receive calls [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 **Settings** screen, under **Wireless and network**, touch **More settings**. The **Wireless and network** menu appears.
2. Touch **Airplane mode** to enable or disable airplane mode. When enabled, a check mark appears in the check box.

Mobile networks

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

1. From the **Settings** screen, under **Wireless and network**, touch **More settings → Mobile networks**. The **Mobile network** 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 14.
- **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 CDMA 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 88.

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 **Settings** screen, under **Wireless and network**, touch **More settings** → **Tethering and portable 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 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.

Configuring Portable Wi-Fi Hotspot

1. From the **Settings** screen, under **Wireless and network**, touch **More settings** → **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 devices 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 **Settings** screen, under **Wireless and network**, touch **More settings** → **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 to Portable Wi-Fi Hotspot*” on page 89.

Tethering

Use Tethering to share your phone's internet connection with a computer connected to your phone using the USB Data Cable or Bluetooth.

For more information about connecting computers to your phone using Tethering, see “*Tethering*” on page 88.

1. From the **Settings** screen, under **Wireless and network**, touch **More settings** → **Tethering and portable hotspot**. The **Tethering and portable hotspot** screen appears.
2. Choose a tethering method:
 - **USB tethering**: Connect the computer to the phone using the USB Data Cable, then touch **USB Tethering** to turn tethering On or Off. When On, a check mark appears in the check box.
 - **Bluetooth tethering**: Pair your phone with the computer using Bluetooth. Consult the computer's documentation for more information about configuring your computer to pair using Bluetooth. Touch **Bluetooth Tethering** to turn tethering On or Off. When On, a check mark appears in the check box.

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

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 145 and “*S Beam*” on page 146.

1. From the **Settings** screen, under **Wireless and network**, touch **More settings**.
2. Touch **NFC** to turn NFC On or Off.

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

Android Beam

Android Beam uses your phone’s NFC (Near Field Communication) feature to send, or “beam”, 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 using Android Beam. You can beam browser pages, YouTube videos, contacts, and more.

1. From the **Settings** screen, under **Wireless and network**, touch **More settings**.
2. Touch **NFC** to enable NFC. NFC must be enabled to use Android Beam. When enabled, a check mark appears in the check box, and the **Android Beam** option becomes activated.
3. Touch **Android Beam**. The **Android Beam** screen appears.
4. Touch **Android Beam**  to turn Android Beam On, or touch **Android Beam**  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 tap the screen.

Turning S Beam On or Off

1. From the **Settings** screen, under **Wireless and network**, touch **More settings**.
2. Touch **S Beam**. The **S Beam** screen appears.
3. Touch **S Beam**  to turn S Beam On, or touch **S Beam**  to turn S Beam Off.

Note: When you turn **S Beam** on, the **NFC** option automatically becomes enabled and a check mark appears in its check box. (For more information, refer to “*NFC*” on page 145.)

Wi-Fi Direct

Wi-Fi Direct allows devices to connect to each other over a direct Wi-Fi connection, without a network or Wi-Fi hotspot. For example, some printers support Wi-Fi Direct, and you could print from your phone using Wi-Fi Direct.

Turning Wi-Fi Direct On or Off

1. From the **Settings** screen, under **Wireless and network**, touch **More settings**.
2. Touch **Wi-Fi Direct**  to turn Wi-Fi Direct On, or touch **Wi-Fi Direct**  to turn Wi-Fi Direct Off.

Note: If you have the **Wi-Fi** client option or the **Portable Wi-Fi Hotspot** turned on, a prompt pops-up asking you to verify that you want to disable either of these options and turn **Wi-Fi Direct** on. To turn **Wi-Fi Direct** on, touch **OK**.

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

Configuring Wi-Fi Direct

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

VPN

Set up and manage Virtual Private Networks (VPNs). For more information about using VPNs, see “*VPN*” on page 86

Adding a VPN

1. From the **Settings** screen, touch **Wireless and network** → **More settings** → **VPN**.
You are prompted to set a screen unlock pattern, PIN, or password.
2. In the **Attention** pop-up, touch **OK**. The **Screen unlock settings** menu appears. (For instructions on selecting Screen unlock settings, see “*Security*” on page 161.)

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.

3. Touch **Add VPN network** 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.

Kies via Wi-Fi

Connect to the Kies application installed on your personal computer using Wi-Fi access to a network. You can then manage your data on your device and synchronize it with your data on your personal computer.

- From the **Settings** screen, under **Wireless and network**, touch **More settings → Kies via Wi-Fi**.

For more information, refer to “*Kies via Wi-Fi*” on page 87.

Nearby devices

Share files with nearby devices using 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 **Settings** screen, under **Wireless and network**, touch **More settings → Nearby devices**. The **Nearby devices** screen appears.
2. Touch **File sharing** to enable or disable file sharing with DLNA-compatible devices. When enabled, a check mark appears in the check box.

3. Under **Advanced**, touch options to control how content is shared from your device:
 - **Shared contents:** Choose the type of content to share, from **Videos**, **Photos**, or **Music**.
 - **Device name:** View or modify your device's name.
 - **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**.

Device

Sound

- From the **Settings** screen, under **Device**, touch **Sound**.
The **Sound** menu appears.

Sound profiles

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

1. From the **Sound** menu, under **General**, touch **Sound profiles**. The **Sound profiles** menu pops-up.
2. Select a profile:
 - **Sound**: Enable your sound settings.
 - **Vibrate**: Enable Vibrate mode, to replace sounds with vibration. You can also enable Vibrate mode by pressing the Volume key Down from the Home screen or by pressing and holding the # key on the Phone keypad.
 - **Mute**: Enable Mute mode, to silence all sounds.

Tip: You can easily enable Silent/Vibrate mode by pressing and holding the Power/Lock key, then touching the Silent/Vibrate mode icon on the Device options bar.

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, under **General**, 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 key tones played for screen touches. You can control whether tones play for screen touches with other sound settings.
3. Touch **OK** to save your settings.

Device ringtone

Choose a ringtone for incoming calls.

1. From the **Sound** menu, under **Ringtone and notifications**, touch **Device ringtone**. The **Device ringtone** 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.
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 Player*” on page 119.

Device vibration

Choose a vibration pattern to use when vibration is enabled.

1. From the **Sound** menu, under **Ringtone and notifications**, touch **Device vibration**. The **Device vibration** menu pops-up.
2. Touch a vibration pattern to select it. When you touch a pattern, a sample plays.
3. To create your own pattern, touch **Create**. Touch **Tap to create** in the pattern, then touch **Stop**. Touch **Save** to save your pattern.
4. Touch **OK** to save your selection.

Default notifications

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

1. From the **Sound** menu, under **Ringtone and notifications**, touch **Default notifications**. The **Default 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.

Tip: You can also set songs as ringtones. For more information, refer to “*Music Player*” on page 119.

Sound and vibration

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

- From the **Sound** menu, under **Ringtone and notifications**, touch **Sound and vibration** to enable or disable the feature.

When **Sound and vibration** is enabled, a check mark appears in the check box.

Keytones

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

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

When **Keytones** 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.

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. Touch **Alert** or **Vibrate**, or touch **Off** for no emergency tone.

Display

- From the **Settings** screen, under **Device**, touch **Display**. The **Display** menu appears.

General

Brightness

Set the default screen brightness.

1. From the **Display** menu, under **General**, 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.

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 **General**, touch **Screen timeout**.
2. Touch a setting to select it.

Auto-rotate screen

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

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

Tip: You can also enable/disable screen automatic rotation on the Notifications panel with the **Screen rotation** setting.

Key backlight duration

Set the length of time keys light when you touch them.

1. From the **Display** menu, under **General**, touch **Key backlight duration**.
2. Select **1.5 seconds**, **6 seconds**, **Always off**, or **Always on**.

Font

Font style

Set the font for screen displays.

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

Font size

Set the font size for screen displays.

1. From the Home screen, touch  **Menu**, then select **Settings → Display → Font size**.
2. Select a font size (**Tiny**, **Small**, **Normal**, **Large**, or **Huge**).

More settings

Display battery percentage

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

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

Wallpaper

Customize the background of the Home and Lock screens.

1. From the Home screen, touch  **Menu**, then select **Settings → Wallpaper**.
2. Select a screen, from **Home screen**, **Lock screen**, or **Home and Lock screens**.
3. Select a source for wallpaper, from **Gallery**, **Live wallpaper** (not available for Lock screen), or **Wallpapers**.
4. Follow the prompts to set the picture or wallpaper.

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

LED Indicator

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

1. From the **Settings** screen, under **Device**, touch **LED Indicator**. The **LED Indicator** screen appears.
2. Touch the following options to enable or disable them. (When enabled, a check mark appears in the check box.):
 - **Charging**: When enabled, the LED glows red during charging, and green when the battery is fully charged.
 - **Low battery**: When enabled, the LED blinks red to indicate low battery charge.
 - **Missed event**: When enabled, the LED blinks orange to show that you have missed calls, new messages, or application events.
 - **Voice recording**: When enabled, the LED glows while you are making a voice recording, but only when the screen is off.

Power saving

Configure Power saving settings to conserve battery power.

1. From the **Settings** screen, under **Device**, touch **Power saving**. The **Power saving** screen appears.
2. Touch **Power saving** to enable or disable the option:
 - Touch **Power saving**  to enable Power saving.
 - Touch **Power saving**  to disable Power saving.**Power saving** must be enabled () 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.
4. Under **Power saving tips**, touch **Learn about power saving** to read information about Power saving options.

Storage

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

1. From the **Settings** screen, under **Device**, 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.
 - **Apps:** 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:** 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 94)
 - **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 94.)

Battery

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

1. From the **Settings** screen, under **Device**, 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.

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 **Settings** screen, under **Device**, touch **Application manager**. The **Application 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** tab shows used and free Device memory. The graph at the bottom of the **Running** tab shows **used** and **free RAM**.

3. Touch an app or service to display the **App info** or **Active app** screen which provides more detailed storage usage information, and lets you Stop/Force stop or Uninstall/Report and app or service. For Downloaded apps, you can also Clear data, Clear cache, and/or Clear defaults.

Personal

Accounts and sync

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

- From the **Settings** screen, under **Personal**, touch **Accounts and sync**. The **Accounts and sync** screen appears. The following options are available:
 - **Accounts and sync**: When enabled, all accounts sync data at any time, automatically.
 - Touch **Accounts and sync**  to enable automatic synchronization of all accounts.
 - Touch **Accounts and sync**  to disable automatic synchronization of all accounts.

- **Accounts list:** Touch an account and its **Sync settings** screen appears with the following options.
 - **Common settings / General settings:** When available, lets you change the configuration of the selected account.
 - **Data and synchronization:** View, enable, and disable individual synchronization items.
 - **Sync now:** Touch to sync the selected account.
 - **Remove account:** Touch to remove the selected account.
- **Sync all:** Touch to synchronize all accounts.
- **Add account:** Touch to launch the **Add account** screen, select the desired account type, follow the prompts to define the account to your phone.

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 **Settings** screen, under **Personal**, touch **Locations services**. The **Location services** screen appears.
2. Touch the following options to enable/disable them. (When an option is enabled, a check mark appears in its check box.):
 - **Use wireless networks:** allows applications to use data from mobile networks and Wi-Fi to help determine your location.
 - **Use GPS satellites:** allows applications to 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 “*Notification Panel*” on page 26.

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.

- **Location and Google search:** allows Google to use your location data for improved search results and other services.
-

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

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

Security

- From the **Settings** screen, under **Personal**, touch **Security**. The **Security** screen appears.

Screen security

Choose settings for locking and unlocking your phone.

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

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

- **Lock screen options:** Touch this option and the **Lock screen options** screen appears with the following additional options available:

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

- **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.
- **Clock:** Touch this option to enable/disable a clock display on the lock screen. When enabled, a check mark appears in the check box.

- **Dual clock:** When enabled, a clock displaying two time zones appears on the lock screen.
Touch **Information ticker**  to enable the lock screen dual clock.
Touch **Information ticker**  to disable the lock screen dual clock.
Touch **Information ticker** to set the home city for the lock screen dual clock.
- **Weather:** When enabled, weather information for your current location appears on the lock screen.
Touch **Information ticker**  to enable the lock screen weather display.
Touch **Information ticker**  to disable the lock screen weather display.
Touch **Information ticker** to configure the lock screen weather display.
- **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 128.)
- **Set wake-up command:** Touch this option and to configure the S Voice wake-up command functions. (For more information about S Voice, see “*S Voice*” on page 128.)
- **Owner information:** Touch this option to enter text you want displayed on the Lock screen. The following options are available:
 - **Enter text to display on lock screen:** In this box, enter text you want displayed on the lock screen. (For more information about entering text, see “*Entering Text*” on page 44.)
 - **Show owner info on lock screen:** When enabled, displays text you enter in the text box on the Lock screen.

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 and lock screen** 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 external SD card**: 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 and lock screen** 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 and lock screen** 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[®] Store.

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 and lock screen** 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 available if you have installed certificates.

Language and input

- From the **Settings** screen, under **Personal**, 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:** Review the default method for manually entering text.

Note: This option cannot be changed.

- **Google voice typing:** Lets you vocally dictate the text entered into a field. Touch  beside Google voice typing to configure the following options:
 - **Select input languages:** Select languages for Google voice typing. Select **Automatic** to use the Default language exclusively, or choose other language(s).
 - **Block offensive words:** When enabled, words many people find offensive are not shown in results of Google voice searches. Offensive words are replaced in results with a placeholder (####).
- **Samsung keyboard:** Touch  beside Samsung keypad to configure the following options.

Note: This option cannot be disabled.

- **Portrait keyboard types:** Choose the default keyboard that appears when the screen is in portrait mode, from Qwerty or 3x4 keyboard (similar to a phone keypad).
- **Input language:** Select languages for the Samsung keyboard.

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

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

Word completion: When enabled, T9 automatically completes words matching your key touches.

Word completion point: Choose the number of letters T9 uses to predict words for automatic completion.

Spell correction: Enable for automatic spelling check and correction.

Next word prediction: When enabled, the system predicts the next word based on common usage patterns.

Auto-append: When enabled, the most common predicted word is automatically added to your text.

Auto-substitution: When enabled, T9 automatically replaces words you enter with words from the auto substitution list.

Regional correction: When enabled, T9 automatically changes the spelling of words based on norms for your default language.

Recapture: When enabled, T9 re-displays matching words when you make corrections to a word inserted automatically.

My word list: Add words to your T9 predictive text dictionary.

Auto substitution list: Manage the list of words T9 uses for auto-substitution (Auto-substitution setting must be enabled).

- **Continuous input:** When enabled, Continuous input lets you enter text by sliding your finger across the keyboard.
- **Handwriting:** When enabled, Handwriting lets you use your finger to trace words and numbers for your phone to translate in to typewritten text. To enable Handwriting, touch the **Handwriting**  slider. To disable Handwriting, touch the **Handwriting**  slider. Touch **Handwriting** to configure the following options:
 - Recognition type:** Choose either Stroke recognition (default) or Complete recognition.
 - Recognition time:** Set Recognition time as 100 ms, 300 ms, 500 ms, 1000 ms, or 2000 ms.
 - Pen thickness:** Set Pen thickness to 1 pixel, 3 pixels, 5 pixels, 7 pixels, or 9 pixels.
 - Pen color:** Set Pen color to Black, Red, Blue, Green, or Brown.

Gesture guide: Lists and defines gestures you can use for editing text.

Tutorial: Describes the basic principles of entering text using your Handwriting.

About: Shows the Build date, DHWR and DioWord+ release levels.

- **Voice input:** When enabled, the voice input key appears on the keyboard.
- **Auto-capitalization:** When enabled, T9 automatically capitalizes words in your text based on common usage, such as at the beginning of sentences.
- **Auto-punctuate:** When enabled, a period and space are automatically entered to end a sentence, when you tap the space bar twice.
- **Character preview:** When enabled, characters available on the key you touch display briefly as you enter text.
- **Key-tap sound:** When enabled, a sound plays for your key touches.
- **Tutorial:** 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.

Voice cmd for apps

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

- From the **Language and input** screen, under **Voice cmd for apps**, the following options are available:
 - Touch **Voice cmd for apps**  to enable Voice cmd for apps.
 - Touch **Voice cmd for apps**  to disable Voice cmd for apps.
 - Touch **Voice cmd for apps** to configure the following settings: (When enabled, a check mark appears in the check box.)
 - **Incoming calls:** When enabled, you can make a call or end a call with voice commands like “Answer” or “Reject”.
 - **Alarm:** When enabled, you can stop or snooze alarms with voice commands like “Stop” or “Snooze”.
 - **Camera:** When enabled, you can take photos with voice commands like “Capture”, “Shoot”, “Smile”, and “Cheese”.
 - **Music:** When enabled, you can control music playback with voice commands like “Next”, “Previous”, “Play”, “Pause”, “Volume up”, and “Volume down”.

Speech

- From the **Language and input** screen, under **Speech**, the following options are available:
 - **Voice recognizer**: Choose a voice recognition engine for your phone's voice recognition features (Google or Samsung powered by Vlingo).
 - **Voice search**: Configure how **Voice search** reacts to your speech.
 - **Language**: Choose a language for voice searching.
 - **SafeSearch**: Set the sensitivity for filtering of explicit images from the results of your Google voice searches (Off, Moderate, or Strict).
 - **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 (#####).
 - **Personalized recognition**: Train **Voice search** to more accurately recognize your voice.
 - **Google Account dashboard**: Manage data collected under your Google account.

- **Text-to-speech output**: Provides audible readout of text, for example, the contents of text messages, and the Caller ID for incoming calls.
 - **Preferred TTS engine**: Select **Google Text-to-speech Engine**, or **Samsung TTS**.
 - **General**:
 - Speech rate**: Choose a rate at which text readouts are spoken.
 - Listen to an example**: Play a sample of speech synthesis.
 - Driving mode**: When enabled, incoming calls and new notifications are read out automatically.
 - Touch **Driving mode**  to enable Driving mode.
 - Touch **Driving mode**  to disable Driving mode.
 - Touch **Driving mode** to choose items to be read out when Driving mode is enabled (Incoming call, Message, New emails, New voicemail, Alarm, Schedule, and/or Unlock screen).

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.

Back up and reset

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

- From the **Settings** screen, under **Personal**, 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.

- 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.

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

System

Accessory

Configure your phone's behavior when you connect it to optional accessories (not included).

- From the **Settings** screen, under **System**, touch **Accessory**. The **Accessory** screen appears.

Dock

Configure your phone's behavior when it is connected to an optional Dock (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.

Earphones

Configure your phone's behavior when you connect it to optional earphones (not included).

- From the **Accessory** screen, under **Earphones**, touch the check box next to the following option to enable it: (When enabled, a check mark appears in the check box.)
 - **Audio applications**: When enabled, connecting earphones to your phone's earphone jack automatically displays a set of audio application shortcuts on the Notifications list.

Date and time

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

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

Accessibility

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

- From the **Settings** screen, under **System**, touch **Accessibility**. The **Accessibility** screen appears.

System

- From the **Accessibility** screen, under **System**, touch the check box next to each of the following options to enable 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** setting.
 - **Speak passwords:** Lets you speak passwords for log-ins.
 - **The power key ends calls:** Lets you can end voice calls by pressing the  **Power/Lock** key.

- **Accessibility shortcut:** 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.
- **Screen timeout:** Set the length of delay between the last key press or screen touch and the automatic **Screen timeout** (dim and lock).

Services

Enable or disable accessibility services.

TalkBack

- From the **Accessibility** screen, under **Services**, touch the following option:
 - **TalkBack:** When enabled 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.

Vision

- From the **Accessibility** screen, under **Vision**, touch the check box next to each of the following options to enable it: (When enabled, a check mark appears in the check box.)
 - **Install Web scripts:** Does not allow / Allows apps to install scripts from Google that make their Web content more accessible.
 - **Negative colors:** Reverses the colors on the screen.
 - **Font size:** Set the font size for screen displays (Tiny, Small, Normal, Large, Huge).

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.)
 - **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.

Mobility

- From the **Accessibility** screen, under **Mobility**, touch the following option:
 - **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).

Developer options

Use the Developer options to set options for Android application development and testing.

- From the **Settings** screen, under **System**, touch **Developer options**. The **Developer options** screen appears.

USB debugging

When enabled, allows debugging when the device is attached to a PC by a USB cable.

- From the **Developer options** screen, touch **USB debugging** to enable or disable the setting. When enabled, a check mark appears in the check box.

Development device ID

The identification number for your device when using it as a development tool displays in this field.

Allow mock locations

This setting is used by developers when developing location-based applications.

- From the **Developer options** screen, touch **Allow mock locations** to enable or disable the setting.
When enabled, a check mark appears in the check box.

Desktop backup password

Protect the desktop with a backup password ID.

1. From the **Developer options** screen, touch **Desktop backup password**.
2. In the Settings screen, enter the current full backup password, the new password for full backups, then enter the new password again.
3. Touch **Set backup password** to save the password change.

User interface

Configure the user interface by setting the behavior for the way the screen behaves when using applications or displaying data.

- From the **Developer options** screen, under **User interface**, touch the check box next to each of the following options to enable it: (When enabled, a check mark appears in the check box.)
 - **Strict mode**: The screen flashes when applications perform long operations on the main thread.
 - **Show pointer location**: Highlights the data that was touched on the screen.
 - **Show touches**: Displays touch interactions on the screen.
 - **Show screen updates**: Areas of the screen flash when they update.
 - **Show CPU usage**: Screen highlights the current CPU usage.
 - **Force GPU rendering**: Uses a 2D acceleration in applications.
 - **Window animation scale**: Configure the scale for animation (ranges from off to 10x).
 - **Transition animation scale**: Configure the scale for transitioning when using animation (ranges from Off to 10x).

Apps

- From the **Developer options** screen, under **Apps**, touch the check box next to each of the following options to enable it: (When enabled, a check mark appears in the check box.)
 - **Do not keep activities**: Destroys every activity as soon as the application is closed.
 - **Limit background processes**: Set the number of processes that can run in background. Options are: Standard limit, No background processes, and 1 to 4 processes at most.
 - **Show all ANRs**: Displays a prompt when applications running in background are not responding.

About device

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

1. From the **Settings** screen, under **System**, touch **About device**.
2. Touch options to view details:
 - **Software update**: Check availability and install software updates.
 - **Status**: View 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**: Display open source licenses, configure license settings, including your DivX VOD registration, and Google info.
 - **Model number**: View your phone's model number.
 - **Android version**: View the firmware version of your phone.
 - **Baseband version**: View the baseband version of your phone.
 - **Kernel version**: View the kernel version of your phone.
 - **Build number**: View the build number of your phone.
 - **Hardware version**: View the version number of our phone's hardware.

Section 10: Health and Safety Information

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](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 phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. The maximum SAR values for this model phone as reported to the FCC are:

- **Head:** 0.69 W/Kg.
- **Body:** 1.28 W/Kg.

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

SAR information can also be obtained at

<http://www.fcc.gov/encyclopedia/specific-absorption-rate-sar-cellular-telephones>.

FCC Part 15 Information to User

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

This device complies with part 15 of the FCC Rules.

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

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

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

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

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

Commercial Mobile Alerting System (CMAS)

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

Smart Practices While Driving

On the Road - Off the Phone

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

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

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

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

Remember, driving comes first, not the call!

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

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

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

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

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

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

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

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

Battery Use and Safety

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 & AGPS

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.

Certain Samsung mobile devices can also use an Assisted Global Positioning System (AGPS), which obtains information from the cellular network to improve GPS performance. AGPS uses your wireless service provider's network and therefore

airtime, data charges, and/or additional charges may apply in accordance with your service plan. Contact your wireless service provider for details.

Your Location

Location-based information includes information that can be used to determine the approximate location of a mobile device. Mobile devices which are connected to a wireless network transmit location-based information. Additionally, if you use applications that require location-based information (e.g. driving directions), such applications transmit location-based information. The location-based information may be shared with third-parties, including your wireless service provider, applications providers, Samsung, and other third-parties providing services.

Use of AGPS in Emergency Calls

When you make an emergency call, the cellular network may activate AGPS technology in your mobile device to tell the emergency responders your approximate location.

AGPS has limitations and **might not work in your area**.

Therefore:

- 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. Touch the “Phone” key. 
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 the “Send” key. 

If certain features are in use (call blocking, for example), you may first need to deactivate those features before you can make an emergency call. Consult your User Manual and your local cellular service provider. When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your mobile device

may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

Care and Maintenance

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

Keep your Samsung Mobile Device away from:

Liquids of any kind

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

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

Extreme heat or cold

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

Microwaves

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

Dust and dirt

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

Cleaning solutions

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

Shock or vibration

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

Paint

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

Responsible Listening

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.

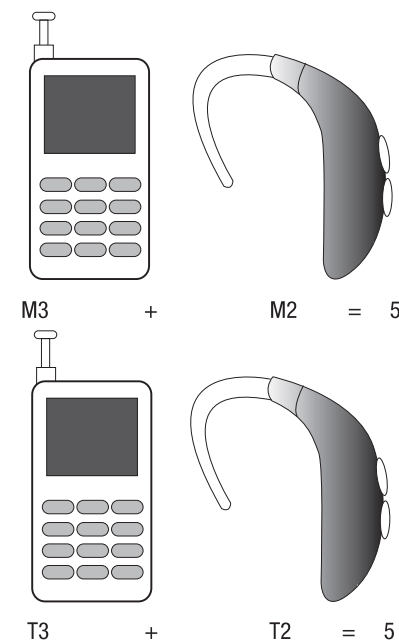
Hearing devices may also be rated. Your hearing aid manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise.

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 11: 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.

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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.

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

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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